



**ASJ** SPRAY-JET  
ABB ARAG GROUP

2010 / 10 / 2020



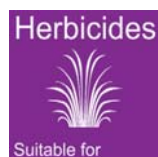
# DC 6009a 2020

Italiano - English - Español

n o z z l e s   a n d   a c c e s s o r i e s



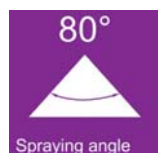
## LEGENDA DELLE ICONE



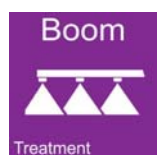
Adatto per l'utilizzo con erbicidi  
Suitable for herbicides  
Adecuado para el uso con herbicidas



Adatto per l'utilizzo con fungicidi  
Suitable for fungicides  
Adecuado para el uso con fungicidas



Angolo di spruzzo  
Spray angle  
Ángulo de pulverización



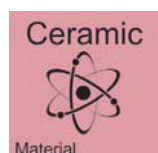
Adatto per l'utilizzo su barra per irrorazione di copertura  
Suitable for boom overall spraying  
Apto para el uso en pulverizadora para pulverización de cobertura



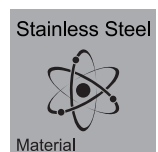
Adatto per trattamenti a banda  
Suitable for band spraying  
Adecuado para tratamientos de banda



Materiale Delrin®  
Delrin® material  
Material Delrin®



Materiale ceramica  
Ceramic material  
Material cerámica



Materiale acciaio INOX  
Stainless Steel material  
Material acero INOX

## KEY TO ICONS



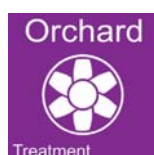
Adatto per l'utilizzo con insetticidi  
Suitable for insecticides  
Adecuado para el uso con insecticidas



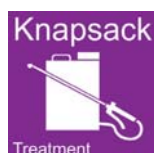
Adatto per l'utilizzo con fertilizzanti  
Suitable for fertilizers  
Adecuado para el uso con fertilizantes



Ugelli codificati secondo norma ISO10625  
Nozzles colour coded according to ISO10625  
Boquillas codificadas según norma ISO10625



Adatto per l'utilizzo su atomizzatore  
Suitable for orchard sprayer  
Adecuado para el uso en atomizador



Adatto per l'utilizzo con pompa a spalla  
Suitable for knapsack pump  
Adecuado para el uso con bomba de mochila



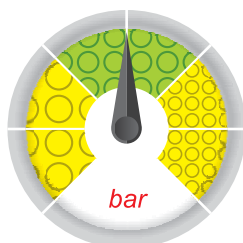
Blister (Quantità, codice a pagina 83)  
Blister pack (Quantity, code on page 83)  
Blister (Cantidad, código en página 83)



Coppia di serraggio per ghiera  
Tightening torque for nuts  
El par de apriete de tuercas

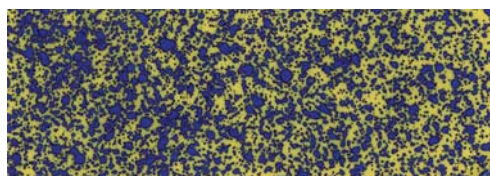


Codice testina attacco rapido consigliato  
Recommended quick fitting cap code  
Código cabezal de acople rápido recomendado



Pressione consigliata di utilizzo  
Recommended working pressure  
Presión de trabajo recomendada

## CARTINE IDROSENSIBILI



## WATER-SENSITIVE PAPER STRIPS

Tutte le cartine idrosensibili presenti all'interno del catalogo sono state ottenute utilizzando ugelli con misura ISO 03 alla pressione di 3 Bar.  
All the water-sensitive paper strips shown in this catalogue have been obtained using ISO 03 nozzles at 3 bars.  
Todos los papeles hidrosensibles presentes dentro del catálogo se obtuvieron utilizando boquillas con medida ISO 03 a una presión de 3 Bar.

## PAPELES HIDROSENSIBLES

## INDICE

|                                                        |     |
|--------------------------------------------------------|-----|
| ASJ                                                    | 2   |
| Certificazioni                                         | 3   |
| Sceita degli ugelli                                    | 4   |
| Informazioni tecniche                                  | 5   |
| SF Ugello a ventaglio                                  | 10  |
| WR Ugello a ventaglio con angolo costante              | 12  |
| WRC Ugello ceramico a ventaglio con angolo costante    | 14  |
| TFS Ugello doppio ventaglio                            | 16  |
| EF Ugello per trattamento a banda                      | 18  |
| FC Testina con ugello a ventaglio ceramico integrato   | 20  |
| LD Ugello a ventaglio antideriva                       | 26  |
| LDC Ugello ceramico a ventaglio antideriva             | 28  |
| TFLD Ugello doppio a ventaglio antideriva              | 30  |
| CFA-SFA Ugelli a ventaglio ad induzione d'aria         | 32  |
| CFA-U Ugello a ventaglio ad induzione d'aria           | 34  |
| CFA-T Ugello a ventaglio ad induzione d'aria inclinato | 36  |
| AFC Ugello ceramico ad induzione d'aria                | 38  |
| ATP Ugello doppio ventaglio ad induzione d'aria        | 40  |
| TFA Ugello doppio ad induzione d'aria                  | 42  |
| ATC Ugello ceramico doppio ad induzione d'aria         | 44  |
| HCA80 Ugello ceramico a cono, induzione d'aria ISO 80° | 50  |
| HCA60 Ugello ceramico a cono, induzione d'aria ISO 60° | 52  |
| HCA40 Ugello ceramico a cono, induzione d'aria ISO 40° | 53  |
| HCC Ugello ceramico a cono                             | 54  |
| HCI80 Ugello ceramico a cono ISO 80°                   | 55  |
| HCI60 Ugello ceramico a cono ISO 60°                   | 56  |
| HCI40 Ugello ceramico a cono ISO 40°                   | 57  |
| HCS Ugello Hollowcone small                            | 58  |
| HC Ugello a cono                                       | 60  |
| HCF Ugello a cono pieno                                | 62  |
| FCC80 Ugello a cono pieno                              | 64  |
| NC DC Ugello ceramico a cono con convogliatore         | 66  |
| Ugelli per lance                                       | 67  |
| Piastrine e convogliatori                              | 68  |
| DEF Ugello a specchio                                  | 72  |
| DEF140 Ugello a specchio 140°                          | 74  |
| BX Ugello per impianti senza barra-ATV sprayer         | 78  |
| AOC Ugello decentrato ad induzione d'aria              | 80  |
| PSP Ugello per fertilizzanti liquidi                   | 82  |
| SHC+HCT+FFT Ugelli speciali                            | 84  |
| AS+FF Ugelli speciali                                  | 85  |
| Testine                                                | 86  |
| Tabelle adesive                                        | 87  |
| Blister                                                | 88  |
| Filtri                                                 | 90  |
| Portagetti                                             | 91  |
| Esempi di montaggio                                    | 96  |
| Gocce                                                  | 97  |
| Tabella di riferimento                                 | 101 |
| ASJ Nozzle configurator                                | 102 |
| Appendice tecnica                                      | 103 |
| Condizioni generali di vendita                         | 109 |

## INDEX

|                                                       |     |
|-------------------------------------------------------|-----|
| ASJ                                                   | 2   |
| Certificates                                          | 3   |
| Nozzle selection                                      | 4   |
| Technical informations                                | 5   |
| SF Fan nozzle                                         | 10  |
| WR Steady angled fan nozzle                           | 12  |
| WRC Steady angled ceramic fan nozzle                  | 14  |
| TFS Twin fan nozzle                                   | 16  |
| EF Band spraying nozzle                               | 18  |
| FC Cap with integrated ceramic fan nozzle             | 20  |
| LD Low drift fan nozzle                               | 26  |
| LDC Low drift ceramic fan nozzle                      | 28  |
| TFLD Twin low drift fan nozzle                        | 30  |
| CFA-SFA Air induction fan nozzles                     | 32  |
| CFA-U Air induction fan nozzle                        | 34  |
| CFA-T Tilted air induction fan nozzle                 | 36  |
| AFC Air induction ceramic nozzle                      | 38  |
| ATP Air induction twin fan nozzle                     | 40  |
| TFA Twin air induction nozzle                         | 42  |
| ATC Twin air induction ceramic nozzle                 | 44  |
| HCA80 ISO 80° Hollowcone ceramic nozzle air induction | 50  |
| HCA60 ISO 60° Hollowcone ceramic nozzle air induction | 52  |
| HCA40 ISO 40° Hollowcone ceramic nozzle air induction | 53  |
| HCC Hollowcone ceramic nozzle                         | 54  |
| HCI80 ISO 80° Hollowcone ceramic nozzle               | 55  |
| HCI60 ISO 60° Hollowcone ceramic nozzle               | 56  |
| HCI40 ISO 40° Hollowcone ceramic nozzle               | 57  |
| HCS Hollowcone small                                  | 58  |
| HC Cone nozzle                                        | 60  |
| HCF Fullcone nozzle                                   | 62  |
| FCC80 Fullcone nozzle                                 | 64  |
| NC DC Hollowcone ceramic nozzle with core             | 66  |
| Spray gun nozzles                                     | 67  |
| Discs and cores                                       | 68  |
| DEF Flood nozzle                                      | 72  |
| DEF140 140° Flood nozzle                              | 74  |
| BX Nozzle for boomless spraying-ATV sprayer           | 78  |
| AOC Air induction off center nozzle                   | 80  |
| PSP Liquid fertilizers nozzle                         | 82  |
| SHC+HCT+FFT Special nozzles                           | 84  |
| AS+FF Special nozzles                                 | 85  |
| Caps                                                  | 86  |
| Adhesive tables                                       | 87  |
| Blister packaging                                     | 88  |
| Filters                                               | 90  |
| Nozzle holders                                        | 91  |
| Assembly examples                                     | 96  |
| Drop                                                  | 97  |
| Reference table                                       | 101 |
| ASJ Nozzle configurator                               | 102 |
| Technical suggestions                                 | 103 |
| General sales conditions                              | 109 |

## ÍNDICE

|                                                          |     |
|----------------------------------------------------------|-----|
| ASJ                                                      | 2   |
| Certificaciones                                          | 3   |
| Elección de la boquilla                                  | 4   |
| Informaciones técnicas                                   | 5   |
| SF Boquilla en abanico                                   | 10  |
| WR Boquilla en abanico con ángulo constante              | 12  |
| WRC Boquilla cerámica en abanico con ángulo constante    | 14  |
| TFS Boquilla doble en abanico                            | 16  |
| EF Boquilla para tratamiento en banda                    | 18  |
| FC Cabeza cerámica en abanico con boquilla integrada     | 20  |
| LD Boquilla en abanico antideriva                        | 26  |
| LDC Boquilla cerámica en abanico antideriva              | 28  |
| TFLD Boquilla doble en abanico antideriva                | 30  |
| CFA-SFA Boquillas en abanico de inducción de aire        | 32  |
| CFA-U Boquilla en abanico de inducción de aire           | 34  |
| CFA-T Boquilla en abanico de inducción de aire inclinada | 36  |
| AFC Boquilla cerámica de inducción de aire               | 38  |
| ATP Boquilla doble abanico de inducción de aire          | 40  |
| TFA Boquilla doble de inducción de aire                  | 42  |
| ATC Boquilla cerámica doble de inducción de aire         | 44  |
| HCA80 Boquilla cerámica a cono inducción de aire ISO 80° | 50  |
| HCA60 Boquilla cerámica a cono inducción de aire ISO 60° | 52  |
| HCA40 Boquilla cerámica a cono inducción de aire ISO 40° | 53  |
| HCC Boquilla cerámica a cono                             | 54  |
| HCI80 Boquilla cerámica a cono ISO 80°                   | 55  |
| HCI60 Boquilla cerámica a cono ISO 60°                   | 56  |
| HCI40 Boquilla cerámica a cono ISO 40°                   | 57  |
| HCS Boquilla Hollowcone small                            | 58  |
| HC Boquilla a cono                                       | 60  |
| HCF Boquilla a cono lleno                                | 62  |
| FCC80 Boquilla a cono lleno                              | 64  |
| NC DC Boquilla a cono con difusor                        | 66  |
| Boquilla para lanzas                                     | 67  |
| Placas y difusores                                       | 68  |
| DEF Boquilla a espejo                                    | 72  |
| DEF140 Boquilla a espejo 140°                            | 74  |
| BX Boquilla para equipo sin barra-ATV sprayer            | 78  |
| AOC Boquilla descentrada de inducción de aire            | 80  |
| PSP Boquilla para fertilizante líquido                   | 82  |
| SHC+HCT+FFT Boquillas especiales                         | 84  |
| AS+FF Boquillas especiales                               | 85  |
| Cabezas                                                  | 86  |
| Tablas adhesivas                                         | 87  |
| Blísteres                                                | 88  |
| Filtros                                                  | 90  |
| Portaboquillas                                           | 91  |
| Ejemplos de montaje                                      | 96  |
| Gotas                                                    | 97  |
| Tabla de referencia                                      | 101 |
| ASJ Nozzle configurator                                  | 102 |
| Sugerencias técnicas                                     | 103 |
| Condiciones generales de venta                           | 109 |

 **Ugelli a ventaglio**  
**Fan nozzles**  
**Boquillas en abanico**

**pag. 9**  
**pag. 9**  
**pág. 9**

**pag. 77**  
**pag. 77**  
**pág. 77**

**Ugelli speciali**  
**Special nozzles**  
**Boquillas especiales**



 **Ugelli ventaglio antideriva**  
**Fan low drift nozzles**  
**Boquillas en abanico antideriva**

**pag. 23**  
**pag. 23**  
**pág. 23**

**pag. 86**  
**pag. 86**  
**pág. 86**

**Accessori**  
**Accessories**  
**Accesorios**



 **Ugelli a cono**  
**Cone nozzles**  
**Boquillas de cono**

**pag. 46**  
**pag. 46**  
**pág. 46**

**pag. 103**  
**pag. 103**  
**pág. 103w**

**Appendice tecnica**  
**Technical suggestions**  
**Sugerencias técnicas**



 **Ugelli a specchio**  
**Flood nozzles**  
**Boquillas de espejo**

**pag. 71**  
**pag. 71**  
**pág. 71**

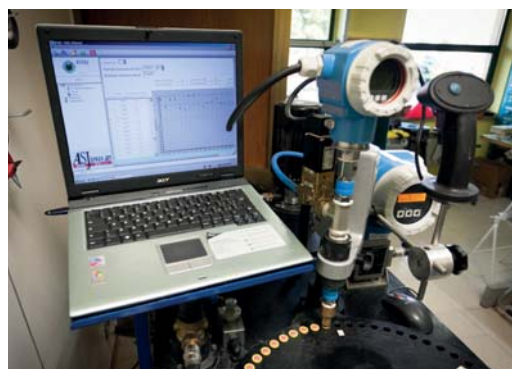
ASJ nasce dall'esperienza ventennale della International Spray-Jets (già appartenente al gruppo ARAG) e della Abbà, azienda storica nella produzione di ugelli.

Esperienze che si fondono nella ricerca, progettazione e produzione di ugelli in ceramica e plastica di elevata qualità, durata ed affidabilità, frutto delle più moderne tecnologie e della conoscenza specifica del settore. La gamma di ugelli ASJ copre le più disparate necessità nei trattamenti agricoli e viene completata da una vasta gamma di accessori per fare fronte alle richieste degli utilizzatori più esigenti.

ASJ was established relying on the twenty-year experience gained by International Spray-Jets (a company belonging to ARAG Group) and Abbà, a well-known nozzle manufacturer.

Both companies are deeply committed into research, design and manufacture of high-quality plastic and ceramic nozzles which ensure long useful life and high reliability, thanks to the use of advanced technologies and a deep-rooted knowledge of this sector. ASJ nozzles are suitable for many farm jobs and come with a wide range of accessories to meet highly demanding requirements.

ASJ nace de los veinte años de experiencia de la International Spray-Jets (ya perteneciente al grupo ARAG) y de la Abbà, empresa histórica en la producción de boquillas. Experiencias que se funden en la investigación, diseño y producción de boquillas de cerámica y plástico de alta calidad, duración y fiabilidad, resultado de las más modernas tecnologías y del conocimiento específico del sector. La gama de boquillas ASJ cubre las más diversas necesidades en los tratamientos agrícolas y es completada por una vasta gama de accesorio para afrontar a los requerimientos de los usuarios más exigentes.



## CERTIFICAZIONI

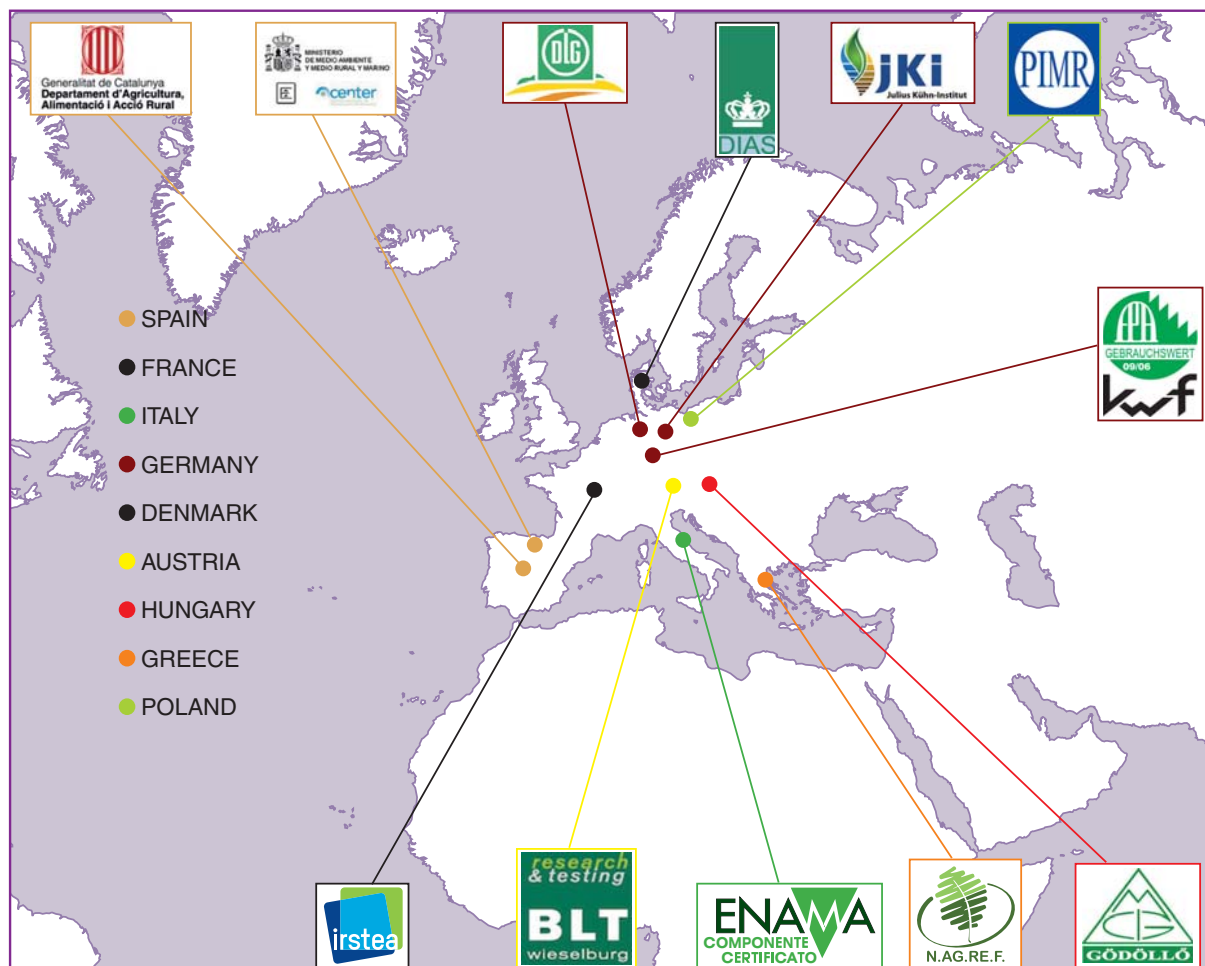
ENTAM è l'ente certificatore europeo nato nel 1997 dall'accordo fra ENAMA, DLG tedesca e BLT austriaca, al fine di uniformare ed ufficializzare a livello europeo le prove sulle macchine agricole e sui componenti installati. Attualmente al gruppo certificatore ENTAM appartengono, oltre alle già citate ENAMA, BLT e DLG, le danesi AU e DAE, la IRSTEA francese, JKI e KWF tedesche, N.AG.RE.F greca, l'ungherese MGI, la polacca PIMR, le spagnole CMA ed EMA/CENTER. Certificare un prodotto ENTAM significa ricevere l'approvazione di tutti gli altri enti, come segno di qualità ed affidabilità su tutto il territorio europeo, riconoscimento che verrà a breve esteso ad altri continenti. ENAMA è l'ente certificatore affiliato ENTAM che garantisce le prove ed i collaudi più precisi e severi sul territorio italiano. ASJ ha scelto di certificare ENAMA ed ENTAM gli ugelli di fascia elevata al fine di garantirne l'assoluta precisione e la massima resa e durata nel tempo.

## CERTIFICATIONS

ENTAM, established in 1997 after the agreement signed by Italian ENAMA, German DLG and Austrian BLT testing institutes, is the European network for testing agricultural machines and their installed components. Apart from the above mentioned certification bodies-ENAMA, BLT and DLG- also Danish AU and DAE, French IRSTEA, German JKI and KWF, Greek N.AG.RE.F, Hungarian MGI, Polish PIMR, Spanish CMA and EMA/CENTER are ENTAM members. If a product is certified by ENTAM, it is certified by all other institutes and therefore its quality and reliability is certified on the whole European territory. ENTAM certification will be shortly extended to other continents as well. ENAMA is among ENTAM official members and performs most accurate and strict tests in Italy. ASJ has decided to have their top nozzles certified by ENAMA and ENTAM so as to ensure ultimate accuracy as well as performance and useful life.

## CERTIFICACIONES

ENTAM es el ente certificador europeo nacido en 1997 del acuerdo entre ENAMA, DLG alemana y BLT austriaca, con el fin de uniformar y oficializar a nivel europeo las pruebas en las máquinas agrícolas y sus componentes instalados. Actualmente al grupo certificador ENTAM pertenecen, además de las ya mencionadas ENAMA, BLT y DLG, las danesas AU y DAE, la IRSTEA francesa, JKI y KWF alemanas, N.AG.RE.F greca, la húngara MGI, la polaca PIMR, las españolas CMA y EMA/CENTER. Certificar un producto ENTAM significa recibir la aprobación de todos los otros entes, como símbolo de calidad y fiabilidad en todo el territorio europeo, reconocimiento que próximamente se extenderá a otros continentes. ENAMA es el ente certificador afiliado ENTAM que garantiza las pruebas y los ensayos más precisos y estrictos en el territorio italiano. ASJ ha elegido certificar ENAMA y ENTAM las boquillas de gama más elevada, con el fin de garantizar su absoluta precisión y el máximo rendimiento y duración en el tiempo.



| Ugello<br>Nozzle<br>Boquilla   |         | Presemina<br>Pre-sowing<br>Presiembra | Pre emergenza<br>Pre-emergency<br>Pre emergencia | Post emergenza<br>Post-emergency<br>Post emergencia |                                    |
|--------------------------------|---------|---------------------------------------|--------------------------------------------------|-----------------------------------------------------|------------------------------------|
|                                |         |                                       |                                                  | Contatto<br>Contact<br>Contacto                     | Sistemico<br>Systemic<br>Sistémico |
| Fan air ceramic 80°            | AFC 080 |                                       |                                                  |                                                     |                                    |
| Fan air ceramic 110°           | AFC 110 |                                       |                                                  |                                                     |                                    |
| Air off center                 | AOC     |                                       |                                                  |                                                     |                                    |
| Air twin ceramic               | ATC     |                                       |                                                  |                                                     |                                    |
| Air twin plastic               | ATP     |                                       |                                                  |                                                     |                                    |
| Boom extension nozzle          | BX      |                                       |                                                  |                                                     |                                    |
| Compact fan air                | CFA     |                                       |                                                  |                                                     |                                    |
| Compact fan air-T              | CFAT    |                                       |                                                  |                                                     |                                    |
| Compact fan air-ultra          | CFAU    |                                       |                                                  |                                                     |                                    |
| Deflector                      | DEF     |                                       |                                                  |                                                     |                                    |
| Deflector 140                  | DEF 140 |                                       |                                                  |                                                     |                                    |
| Evenfan                        | EF      |                                       |                                                  |                                                     |                                    |
| Fast cap                       | FC      |                                       |                                                  |                                                     |                                    |
| Hollowcone                     | HC      | ---                                   | ---                                              |                                                     |                                    |
| Hollowcone small               | HCS     | ---                                   | ---                                              |                                                     |                                    |
| Fullcone                       | HCF     | ---                                   | ---                                              |                                                     |                                    |
| Hollowcone ceramic Air ISO 80° | HCA 80  | ---                                   | ---                                              |                                                     |                                    |
| Hollowcone ceramic Air ISO 60° | HCA 60  | ---                                   | ---                                              |                                                     |                                    |
| Hollowcone ceramic Air ISO 40° | HCA 40  | ---                                   | ---                                              |                                                     |                                    |
| Hollowcone ceramic             | HCC     | ---                                   | ---                                              |                                                     |                                    |
| Hollowcone ceramic ISO 80°     | HCI 80  | ---                                   | ---                                              |                                                     |                                    |
| Hollowcone ceramic ISO 60°     | HCI 60  | ---                                   | ---                                              |                                                     |                                    |
| Hollowcone ceramic ISO 40°     | HCI 40  | ---                                   | ---                                              |                                                     |                                    |
| Low drift                      | LD      |                                       |                                                  |                                                     |                                    |
| Low drift ceramic              | LDC     |                                       |                                                  |                                                     |                                    |
| Standard flat fan              | SF      |                                       |                                                  |                                                     |                                    |
| Standard fan air               | SFA     |                                       |                                                  |                                                     |                                    |
| Twin fan air                   | TFA     |                                       |                                                  |                                                     |                                    |
| Twin fan low drift             | TFLD    |                                       |                                                  |                                                     |                                    |
| Twin fan standard              | TFS     | ---                                   | ---                                              |                                                     |                                    |
| Wide range                     | WR      |                                       |                                                  |                                                     |                                    |
| Wide range ceramic             | WRC     |                                       |                                                  |                                                     |                                    |

Herbicides



Suitable for

OTTIMO  
EXCELLENT  
ÓPTIMOMOLTO BUONO  
VERY GOOD  
MUY BUENOBUONO  
GOOD  
BUENO

| Ugello<br>Nozzle<br>Boquilla   |         | Contatto<br>Contact<br>Contacto | Sistemico<br>Systemic<br>Sistémico |
|--------------------------------|---------|---------------------------------|------------------------------------|
|                                |         |                                 |                                    |
| Fan air ceramic 80°            | AFC 080 |                                 |                                    |
| Fan air ceramic 110°           | AFC 110 |                                 |                                    |
| Air off center                 | AOC     |                                 |                                    |
| Air twin ceramic               | ATC     |                                 |                                    |
| Air twin plastic               | ATP     |                                 |                                    |
| Boom extension nozzle          | BX      |                                 |                                    |
| Compact fan air                | CFA     |                                 |                                    |
| Compact fan air-T              | CFAT    |                                 |                                    |
| Compact fan air-ultra          | CFAU    |                                 |                                    |
| Deflector                      | DEF     |                                 |                                    |
| Deflector 140                  | DEF 140 |                                 |                                    |
| Evenfan                        | EF      |                                 |                                    |
| Fast cap                       | FC      |                                 |                                    |
| Hollowcone                     | HC      |                                 |                                    |
| Hollowcone small               | HCS     |                                 |                                    |
| Fullcone                       | HCF     |                                 |                                    |
| Hollowcone ceramic Air ISO 80° | HCA 80  |                                 |                                    |
| Hollowcone ceramic Air ISO 60° | HCA 60  |                                 |                                    |
| Hollowcone ceramic Air ISO 40° | HCA 40  |                                 |                                    |
| Hollowcone ceramic             | HCC     |                                 |                                    |
| Hollowcone ceramic ISO 80°     | HCI 80  |                                 |                                    |
| Hollowcone ceramic ISO 60°     | HCI 60  |                                 |                                    |
| Hollowcone ceramic ISO 40°     | HCI 40  |                                 |                                    |
| Low drift                      | LD      |                                 |                                    |
| Low drift ceramic              | LDC     |                                 |                                    |
| Disc + Core                    | NC DC   |                                 |                                    |
| Standard flat fan              | SF      |                                 |                                    |
| Standard fan air               | SFA     |                                 |                                    |
| Twin fan air                   | TFA     |                                 |                                    |
| Twin fan low drift             | TFLD    |                                 |                                    |
| Twin fan standard              | TFS     |                                 |                                    |
| Wide range                     | WR      |                                 |                                    |
| Wide range ceramic             | WRC     |                                 |                                    |

Fungicides



Suitable for

| Ugello<br>Nozzle<br>Boquilla   |         | Contatto<br>Contact<br>Contacto | Sistemico<br>Systemic<br>Sistémico |
|--------------------------------|---------|---------------------------------|------------------------------------|
|                                |         |                                 |                                    |
| Fan air ceramic 80°            | AFC 080 |                                 |                                    |
| Fan air ceramic 110°           | AFC 110 |                                 |                                    |
| Air off center                 | AOC     |                                 |                                    |
| Air twin ceramic               | ATC     |                                 |                                    |
| Air twin plastic               | ATP     |                                 |                                    |
| Boom extension nozzle          | BX      |                                 |                                    |
| Compact fan air                | CFA     |                                 |                                    |
| Compact fan air-T              | CFAT    |                                 |                                    |
| Compact fan air-ultra          | CFAU    |                                 |                                    |
| Deflector                      | DEF     |                                 |                                    |
| Deflector 140                  | DEF 140 |                                 |                                    |
| Evenfan                        | EF      |                                 |                                    |
| Fast cap                       | FC      |                                 |                                    |
| Hollowcone                     | HC      |                                 |                                    |
| Hollowcone small               | HCS     |                                 |                                    |
| Fullcone                       | HCF     |                                 |                                    |
| Hollowcone ceramic Air ISO 80° | HCA 80  |                                 |                                    |
| Hollowcone ceramic Air ISO 60° | HCA 60  |                                 |                                    |
| Hollowcone ceramic Air ISO 40° | HCA 40  |                                 |                                    |
| Hollowcone ceramic             | HCC     |                                 |                                    |
| Hollowcone ceramic ISO 80°     | HCI 80  |                                 |                                    |
| Hollowcone ceramic ISO 60°     | HCI 60  |                                 |                                    |
| Hollowcone ceramic ISO 40°     | HCI 40  |                                 |                                    |
| Low drift                      | LD      |                                 |                                    |
| Low drift ceramic              | LDC     |                                 |                                    |
| Disc + Core                    | NC DC   |                                 |                                    |
| Standard flat fan              | SF      |                                 |                                    |
| Standard fan air               | SFA     |                                 |                                    |
| Twin fan air                   | TFA     |                                 |                                    |
| Twin fan low drift             | TFLD    |                                 |                                    |
| Twin fan standard              | TFS     |                                 |                                    |
| Wide range                     | WR      |                                 |                                    |
| Wide range ceramic             | WRC     |                                 |                                    |

Insecticides



Suitable for

## INSTALLAZIONE

Per assicurare una copertura uniforme, la barra deve essere posizionata ad una determinata altezza, in relazione all'area da trattare e alla spaziatura degli ugelli posizionati sulla barra. La tabella in basso indica le distanze necessarie per ottenere una sovrapposizione del 50% ed una distribuzione costante.

Per minimizzare l'interferenza tra i getti ed evitare la formazione di goccioline troppo pesanti sarebbe necessario posizionare gli ugelli sulla barra ruotati di 8°. La maggior parte dei portagetti standard è già prevista per ruotare di 8° gli ugelli.

### Altezza di barra per ottenere il 50% di sovrapposizione a distanze differenti

|               | d | 40 cm<br>16" | 45 cm<br>18"   | 50 cm<br>20" | 55 cm<br>22"   | 60 cm<br>24"   |
|---------------|---|--------------|----------------|--------------|----------------|----------------|
| $\alpha$ 80°  | h | 48 cm<br>19" | 54 cm<br>21.5" | 60 cm<br>24" | 66 cm<br>26"   | 72 cm<br>28.5" |
| $\alpha$ 110° | h | 28 cm<br>11" | 32 cm<br>13"   | 35 cm<br>14" | 39 cm<br>15.5" | 42 cm<br>16.5" |

| Angolo di spruzzo<br>Spray angle<br>Ángulo de pulverización          | 80°     | 90°     | 110°    | 130°    |
|----------------------------------------------------------------------|---------|---------|---------|---------|
| Larghezza di lavoro "A"<br>"A" job's width<br>Largura de trabajo "A" | 1.7 X h | 2.0 X h | 2.9 X h | 5.5 X h |

## INSTALLATION

In order to obtain a smooth coverage the boom should be at a certain height from the ground, depending on target surface and how nozzles are spaced onto the boom. The following table shows necessary distances for a 50% overlapping and an even spraying. To minimize jet cross-actions and avoid excessively heavy drops, nozzles onto the boom should be turned by 8°. Most standard nozzle holders are already set for an 8° nozzle rotation.

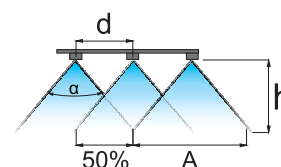
### Boom height for 50% overlapping at different distances

## INSTALACIÓN

Para asegurar una cobertura uniforme, la barra se debe posicionar a una determinada altura, en relación al área por tratar y al espacio de las boquillas posicionadas en la barra. La tabla de abajo indica las distancias necesarias para lograr una superposición del 50% y una distribución constante.

Para minimizar la interferencia entre los chorros y evitar la formación de gotitas demasiado pesadas sería necesario posicionar las boquillas en la barra, giradas a 8°. La mayoría de los porta-boquillas estándares ya está prevista para girar 8° las boquillas.

### Altura de barra para lograr el 50% de superposición a distancias diferentes

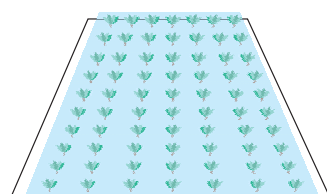


## COPERTURA

In relazione alla tipologia di coltura trattata, solitamente sono due le metodiche di trattamento con le barre: di copertura e a bande.

L'irrorazione di copertura si ottiene regolando la distanza degli ugelli sulla barra o la loro altezza da terra, in modo da avere una copertura omogenea, senza sovrapposizioni o spazi vuoti.

Il trattamento a bande si ottiene spaziando sulla barra determinati tipi di ugello (es.: EvenFan) in modo da consentire il trattamento su strisce, relative a filari di colture. La zona effettivamente trattata corrisponde perfettamente all'ampiezza di uscita di ogni singolo ugello.



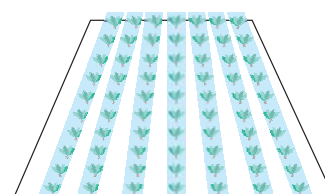
**Irrorazione di copertura**  
**Broadcast spraying**  
**Riego de cobertura**

## SPRAYING COVERAGE

Depending on target crop, two types of boom spraying can be used: either broadcast or band spraying.

Broadcast spraying is obtained by spacing the nozzles onto the boom or adjusting their ground height in such a way to have a smooth coverage with neither overlapping nor empty spaces.

Band spraying is obtained by spacing certain nozzle types (e.g. EvenFan) in such a way to spray along bands, corresponding to crop rows. Actual sprayed area perfectly corresponds to single nozzle spraying width.



**Trattamento a bande**  
**Band spraying**  
**Tratamiento de bandas**

## COBERTURA

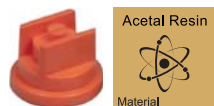
En relación al tipo de cultivo tratado, habitualmente son dos los métodos de tratamiento con las barras: de cobertura y de bandas.

La pulverización de cobertura se obtiene regulando la distancia de las boquillas en la barra o su altura desde el suelo, para lograr una cobertura homogénea, sin superposiciones ni espacios vacíos.

El tratamiento de bandas se obtiene distribuyendo en la barra determinados tipos de boquillas (por ej.: EvenFan) de manera de permitir el tratamiento en filas, correspondientes a las hileras de cultivo. La zona efectivamente tratada corresponde perfectamente a la amplitud de salida de cada boquilla.

## MATERIALI

Gli ugelli per i trattamenti in agricoltura vengono prodotti con diversi materiali, adatti alle svariate esigenze. La scelta del tipo di materiale, oltre che di ugello, è sostanziale per la buona riuscita di un trattamento così come è molto importante controllare regolarmente lo stato di usura degli ugelli per sostituirli quando necessario.



### RESINA ACETALICA DELRIN®

Gli ugelli in plastica sono caratterizzati da un'eccellente resistenza chimica ed una discreta resistenza all'usura, tuttavia un'elevata pressione di utilizzo e gli interventi di sostituzione, manutenzione e pulizia possono danneggiarli. Il basso costo però permette una frequente sostituzione. ASJ ha scelto, per la produzione dei propri ugelli plastici e per i corpi esterni degli ugelli ceramici, la resina acetaleica Delrin®, che consente una produzione lineare e precisa ed è caratterizzata da una buona resistenza meccanica, da un'ottima resistenza all'abrasione e da un'eccezionale resistenza all'aggressione dei prodotti chimici.



### CERAMICA (ALLUMINA)

La ceramica è in assoluto il materiale che garantisce la maggiore resistenza all'abrasione e alla corrosione. È un materiale estremamente duro grazie al quale è possibile ottenere ugelli che hanno una durata circa otto volte superiore rispetto a quelli in acciaio. Per ovviare alla sua naturale fragilità meccanica, si utilizza la ceramica per produrre l'inserto interno che viene inserito in un corpo in Delrin®. ASJ utilizza una ceramica di Allumina al 96% di purezza, (una delle percentuali più alte esistenti sul mercato), stampata con le più moderne e sofisticate apparecchiature, così da ottenere ugelli resistenti, molto precisi e stabili nel tempo. Ottimali per i più svariati trattamenti agricoli.

### RESISTENZA DEI DIVERSI MATERIALI UTILIZZATI

|                                                                            | PLASTICHE<br>PLÁSTICAS | METALLI<br>METAL<br>METALES | CERAMICHE<br>CERAMIC<br>CERÁMICAS             |                                   |
|----------------------------------------------------------------------------|------------------------|-----------------------------|-----------------------------------------------|-----------------------------------|
| Materiale<br>Material<br>Material                                          | Delrin®                | Ottone<br>Brass<br>Latón    | Acciaio INOX<br>Stainless steel<br>Acero INOX | Steatite<br>Steatite<br>Esteatita |
| Resistenza abrasione<br>Corrosion Stability<br>Resistencia a la abrasión   |                        |                             |                                               |                                   |
| Resistenza corrosione<br>Chemical Durability<br>Resistencia a la corrosión |                        |                             |                                               |                                   |

## MATERIALS

Agricultural nozzles can be made of different materials, depending on the job they are intended to.

Material selection, along with the selection of the right nozzle, is essential for a successful spraying job. Also important are regular checks for nozzle wear and replacement when needed.

### DELRIN® ACETAL RESIN

Plastic nozzles feature a good chemical durability and a fair wear resistance. However, high operating pressure, replacement, maintenance and cleaning operations might damage this material. They can be replaced at short intervals though, thanks to their low cost.

For the manufacture of their plastic nozzles and outer bodies of ceramic nozzles, ASJ has selected Delrin® acetal resin, which allows a linear and accurate production featuring good mechanical strength, abrasion resistance and an exceptionally good chemical durability.

### CERAMIC (ALUMINA)

Ceramic is the material featuring the best chemical durability and corrosion stability. Ceramic is so hard that ceramic nozzles last about eight times longer than steel nozzles. To balance its inherent mechanical brittleness, ceramic is only used to manufacture the nozzle insert, duly fitted into a Delrin® body. ASJ uses ceramic containing 96% of alumina (one of the highest percentages available on the market), which is molded by cutting-edge machines. As a result, nozzles are very strong, accurate and stable over time. They offer optimal performances in many agricultural spraying jobs.

### MATERIAL RESISTANCE LEVELS

## MATERIALES

Las boquillas para los tratamientos en agricultura son fabricadas con diferentes materiales, aptos para las más variadas exigencias. La elección del tipo de material, además de la boquilla, es fundamental para el buen resultado de un tratamiento, como así también es muy importante controlar regularmente el estado de desgaste de las boquillas para sustituirlas cuando sea necesario.

### RESINA ACETÁLICA DELRIN®

Las boquillas de plástico se caracterizan por una excelente resistencia química y una discreta resistencia al desgaste. Sin embargo, una elevada presión de uso e intervenciones de sustitución, mantenimiento y limpieza pueden dañarlas. Sin embargo, su bajo costo permite una sustitución frecuente. ASJ ha elegido, para la producción de sus boquillas plásticas y para los cuerpos externos de las boquillas cerámicas, la resina acetálica Delrin®, que permite una producción lineal y precisa y se caracteriza por una buena resistencia mecánica, por una excelente resistencia a la abrasión y por excepcional resistencia a la agresión de los productos químicos.

### CERÁMICA (ALÚMINA)

La cerámica es en absoluto el material que garantiza la mayor resistencia a la abrasión y a la corrosión. Es un material sumamente duro gracias al cual es posible obtener boquillas que tiene una duración aproximadamente ocho veces superior respecto a los de acero. Para remediar su natural fragilidad mecánica, se utiliza la cerámica para producir la inserción interior que viene introducida en un cuerpo de Delrin®. ASJ utiliza una cerámica de Alúmina al 96% de pureza (una de los porcentajes más altos existentes en el mercado), moldeada con los más modernos y sofisticados equipos para obtener boquillas resistentes, muy precisas y estables en el tiempo. Lo ideal para los más variados tratamientos agrícolas.

### RESISTENCIA DE LOS DIFERENTES MATERIALES UTILIZADOS

|                                       |
|---------------------------------------|
| Ottimo<br>Excellent<br>Óptimo         |
| Molto buono<br>Very good<br>Muy bueno |
| Buono<br>Good<br>Bueno                |
| Pessimo<br>Bad<br>Pésimo              |

## USURA DEGLI UGELLI

Oltre ad essere fortemente legata al tipo di materiale utilizzato per la produzione degli ugelli, l'usura è causata da diversi fattori, quali:

- i prodotti chimici usati
- la pressione di lavoro
- le dimensioni del foro dell'ugello
- la configurazione degli ugelli.
- la cattiva filtrazione

## NOZZLE WEAR

Apart from depending strongly on nozzle material, wear can be caused by different factors, such as:

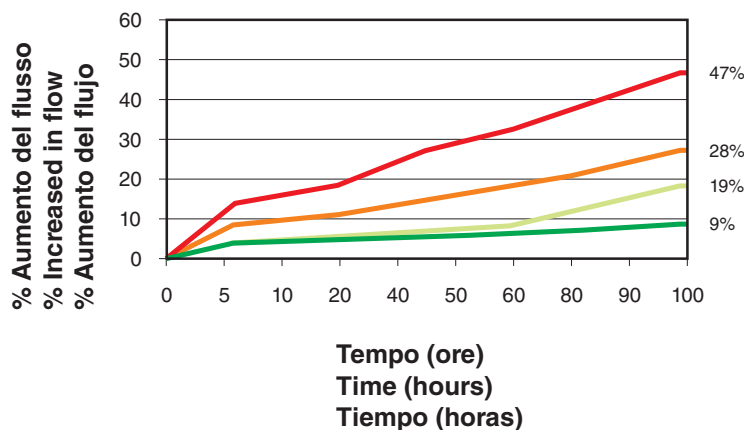
- chemical products
- operating pressure
- nozzle size
- nozzle setting
- poor filtration

## DESGASTE DE LA BOQUILLA

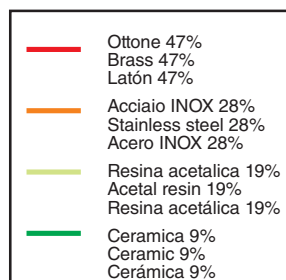
Además de estar fuertemente ligada al tipo de material utilizado para la producción de las boquillas, el desgaste es causado por diferentes factores, entre los cuales:

- los productos químicos usados
- la presión de trabajo
- las dimensiones del orificio de la boquilla
- la configuración de las boquillas.
- filtración inadecuada

### TEST COMPARATIVO DI USURA (ISO 5682-1)



### COMPARATIVE WEAR TEST (ISO 5682-1)



### PRUEBA COMPARATIVA DE DESGASTE (ISO 5682-1)

Test medio: 2.5% Kaolino in acqua  
Pressione del test: 2.8 bar

Test medium: 2.5% Kaolin in water  
Test pressure: 2.8 bar

Prueba promedio: 2.5% Caolín en agua  
Presión de la prueba: 2.8 bar

L'usura dell'ugello può dare luogo a notevoli difformità nella portata e nella distribuzione causando danni al trattamento. Proviamo ad immaginare cosa succede se un ugello usurato spruzza il 10% di prodotto in più del dovuto: se trattiamo una superficie di 500 ettari sprecheremo prodotti fitosanitari utilizzabili per ulteriori 50 ettari! È ovvio quindi che un regolare controllo degli ugelli e la loro costante sostituzione garantiscono non solo trattamenti ottimali, ma un notevole risparmio in termini di denaro.

If the nozzle is worn out, flow rate and spraying may be irregular thus endangering the spraying job results.

Let's see what happens if a worn nozzle sprays a product amount increased by 10%: if a 500-hectare area is sprayed, we will waste an amount of pesticide enough to spray further 50 hectares!

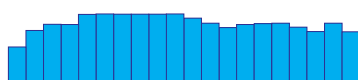
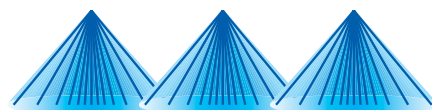
It is therefore obvious that regular nozzle check and replacement ensure both optimal spraying jobs and remarkable cost saving.

El desgaste de la boquilla puede ocasionar notables deformidades en el caudal y en la distribución, causando daños al tratamiento. Intentemos imaginar qué sucede si una boquilla desgastada rocía un 10% más de producto del debido: se tratamos una superficie de 500 hectáreas derrocharemos productos fitosanitarios para utilizar en más de 50 hectáreas. Por lo tanto, es obvio que un control regular de las boquillas y su constante sustitución garantizan no sólo tratamientos excelentes, sino un notable ahorro económico.

### DIFFORMITÀ DI DISTRIBUZIONE

L'usura del foro dell'ugello produce una irregolare distribuzione della miscela [Coefficiente di Variabilità (CV) alto].

Ugelli nuovi  
New nozzles  
Boquillas nuevas

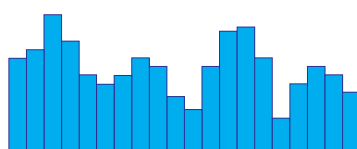
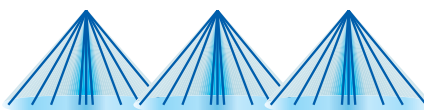


CV 6%

### IRREGULAR SPRAYING

Irregular spraying is caused by a worn nozzle hole [Variability Coefficient (CV) is high].

Ugelli usurati  
Worn nozzles  
Boquillas desgastadas

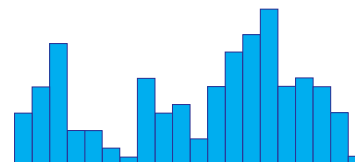


CV 35%

### DIFERENCIAS DE DISTRIBUCIÓN

El desgaste del orificio de la boquilla produce una distribución irregular de la mezcla [Coeficiente de variabilidad (CV) alto].

Ugelli danneggiati  
Damaged nozzles  
Boquillas dañadas



CV 57%

## MANUTENZIONE DEGLI UGELLI

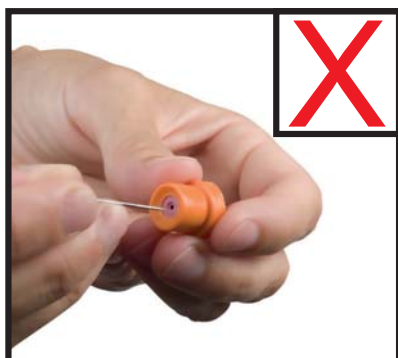
L'usura degli ugelli non è di facile individuazione in quanto non causa variazioni valutabili ad occhio nudo sulla forma del getto; ciò che varia sono la portata e la distribuzione del liquido all'interno del getto (negli ugelli a getto piatto o a cono pieno, ad esempio, l'usura genera un'accentuazione del flusso nella parte centrale del getto). Per questi motivi occorre **controllare periodicamente la portata degli ugelli in uso** e confrontarla con quella di ugelli nuovi dello stesso tipo. Di solito si consiglia la sostituzione degli ugelli quando la portata supera del 10% quella nominale. Per rendere più lunga la vita degli ugelli, prevedete il loro risciacquo ed il lavaggio completo del circuito di distribuzione al termine delle operazioni, così da ridurre al minimo il rischio di incrostazioni e intasamenti. Durante le operazioni di pulizia prestate la massima attenzione a non causare danneggiamenti accidentali, evitando di rimuovere eventuali ostruzioni dall'orifizio con oggetti appuntiti, che rovinano gli ugelli. Vanno utilizzati, invece i detergenti compatibili col materiale dell'ugello (l'eventuale impiego di uno spazzolino può agevolare la rimozione dell'ostruzione, così come un semplice getto controcorrente di aria compressa).

## NOZZLES MAINTENANCE

Nozzle wear cannot be easily detected as it does not visibly change jet shape. What changes are jet flow rate and spraying (e.g. in flat or full cone nozzles, wear causes flow increase in jet middle area). For these reasons, **nozzle flow rate should be regularly checked** by comparing given value with the flow rate value of new nozzles of the same type. Nozzle replacement is usually recommended if current flow rate is 10% higher than nominal rate. For a longer nozzle useful life, it is recommended for the nozzle to be flushed and the circuit to be fully washed at the end of the spraying job, so as to minimize the risk of scales and blockages. Do not use pointed tools to remove any blockages from nozzle holes as they will surely cause serious damages. Use suitable detergents compatible with nozzle material (also a brush can be of help, as well as a compressed air jet).

## MANTENIMIENTO DE LAS BOQUILLAS

El desgaste de las boquillas no es fácil de identificar puesto que no causa variaciones evidentes a simple vista en la forma del chorro; lo que varía es el caudal y la distribución del líquido en el interior del chorro (en las boquillas de chorro plano o de cono lleno, por ejemplo, el desgaste genera una acentuación del flujo en la parte central del chorro). Por estos motivos es necesario **controlar periódicamente el caudal de las boquillas en uso** y compararlo con el de boquillas nuevas del mismo tipo. Por lo general se recomienda sustituir las boquillas cuando el caudal supera un 10% del caudal nominal. Para prolongar la vida útil de las boquillas, prever su enjuague y el lavado completo del circuito de distribución al finalizar las operaciones, en modo tal de reducir al mínimo el riesgo de incrustaciones y obstrucciones. Durante las operaciones de limpieza prestar suma atención para no causar daños accidentales, evitando eliminar eventuales obstrucciones del orificio con objetos puntiagudos que arruinarían las boquillas. En cambio, se deben utilizar los detergentes compatibles con el material de la boquilla (el eventual uso de un cepillo puede facilitar la eliminación de la obstrucción, así como un simple chorro contracorriente de aire comprimido).



Gli ugelli a ventaglio o a fessura sono così chiamati in quanto creano un getto piatto dovuto alla particolare conformazione della testina in cui il foro di uscita è a forma ellittica o rettangolare.

Fan nozzles (also called slit nozzles) produce a flat jet due to their special tip which features either a rectangular or elliptic hole.

Las boquillas de abanico y con ranura son llamadas así puesto que producen un chorro plano, debido a la particular conformación de la cabeza en la que el orificio de salida es de forma elíptica o rectangular.

## Adatti per il trattamento di copertura

Gli ugelli a ventaglio di forma ellittica distribuiscono una traccia al suolo caratterizzata dagli estremi stondati e da una distribuzione lenticolare accentuata al centro rispetto all'esterno. Un corretto posizionamento sulla barra è sostanziale per la buona riuscita del trattamento.

## Suitable for overall spraying

Elliptic fan nozzles are characterized by a ground pattern featuring rounded ends and a lentiform spraying which is thicker at the center. For a successful spraying job, nozzles should be properly fitted onto the boom.

## Aptos para el tratamiento de cobertura

Las boquillas en abanico con forma elíptica distribuyen un trazado en el suelo que se caracteriza por extremos redondeados y por una distribución lenticular acentuada más en el centro que en la parte externa. La correcta ubicación sobre la barra es fundamental para obtener buenos resultados con el tratamiento.



Ugello con foro ellittico  
Elliptic-holed nozzle  
Boquilla con orificio elíptico

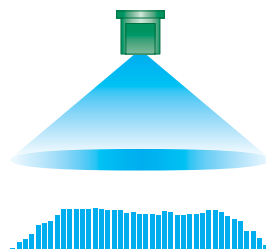


Diagramma di distribuzione  
Spraying diagram  
Diagrama de distribución



Traccia al suolo  
Ground pattern  
Trazado en el suelo

## Adatti per il trattamento a bande

Per ugelli a ventaglio con foro rettangolare si intendono quei tipi di ugelli il cui foro di uscita è un occhio con gli estremi stondati. In questo caso il getto prodotto non è di forma lenticolare, ma è molto più omogeneo poiché la quantità di prodotto erogato al centro è uguale o cambia di poco rispetto a quella erogata all'esterno e la distribuzione a terra risulta più uniforme per tutta la sua larghezza.

## Suitable for band spraying

Under rectangular-holed fan nozzles are meant those nozzles featuring an eyelet with rounded ends. Their jet is not lentiform but is more uniform as the amount of sprayed product in its central area is the same -or lightly different- as the quantity in its outer area and therefore ensures smoother soil spraying for its whole width.

## Aptos para el tratamiento en bandas

Las boquillas de abanico con orificio rectangular son las boquillas cuyo orificio de salida es un ojal con los extremos redondeados. En este caso el chorro no es de forma lenticular, sino que es mucho más homogéneo puesto que la cantidad de producto suministrado en el centro es igual o cambia poco respecto a la suministrada en el exterior, y la distribución en el suelo es más uniforme en todo su anchura.



Ugello con foro rettangolare  
Rectangular-holed nozzle  
Boquilla con orificio rectangular

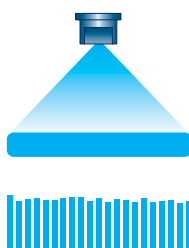


Diagramma di distribuzione  
Spraying diagram  
Diagrama de distribución



Traccia al suolo  
Ground pattern  
Trazado en el suelo



Utilizzo  
Use  
Utilización

Herbicides



Suitable for

Fungicides



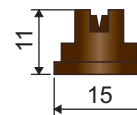
Suitable for

Insecticides



Suitable for

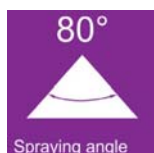
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



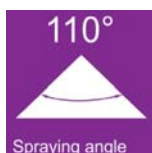
- Montati sulla barra correttamente spazati e alla giusta distanza dalla superficie da trattare, garantiscono una copertura uniforme.
- Stampato in Delrin®, ad alta stabilità chimica, che conferisce ottime caratteristiche di durata.

- If properly fitted onto the boom and at the right distance from the area to be sprayed, they ensure smooth coverage.
- Made of molded Delrin®, a polymer ensuring high chemical stability and an exceptionally long useful life.

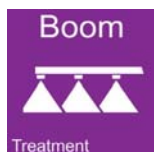
- Montadas en la barra correctamente espaciadas y a la distancia correcta de la superficie a tratar, garantizan una cobertura uniforme.
- Moldeado en Delrin®, material con alta estabilidad química, que otorga excepcionales características de duración.



Spraying angle



Spraying angle



Treatment



Material



Colour coding



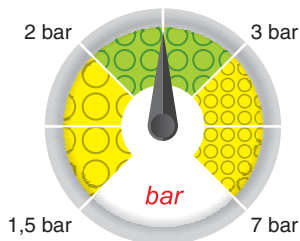
Cap



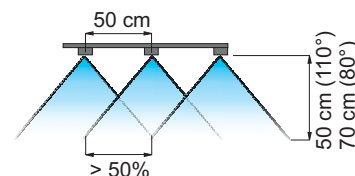
Blister pack



Blister pack



Copertura  
Spray coverage  
Cobertura



Distanza sulla barra  
Boom spacing  
Distancia en la barra

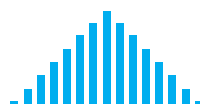
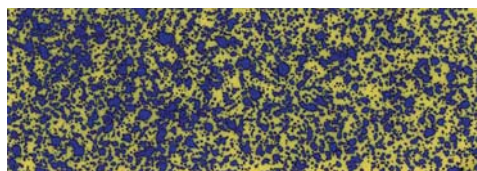


Diagramma di distribuzione ugello singolo  
Single nozzle distribution pattern  
Diagrama de distribución boquilla individual



Diagramma di distribuzione su barra  
Boom distribution pattern  
Diagrama de distribución en la barra



Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco

# STANDARD FLAT FAN

# SF

Ugelli a ventaglio  
Fan nozzles  
Boquillas en abanico

| COD. 110°<br>CODE 110°<br>CÓD. 110° | <br>bar | <br>drop 110° | <br>l/min | l/ha (spazio tra gli ugelli: 50 cm)<br>l/ha (nozzle spacing: 50 cm)<br>l/ha (espacio entre las boquillas: 50 cm) |        |        |         |         |         |         |         |         |         | <br>drop 80° | COD. 80°<br>CODE 80°<br>CÓD. 80° |
|-------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|-------------------------------------------------------------------------------------------------|----------------------------------|
|                                     |                                                                                          |                                                                                                |                                                                                            | 4 km/h                                                                                                           | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h | 25 km/h |                                                                                                 |                                  |
| SF11001                             | 1.5                                                                                      | F                                                                                              | 0.28                                                                                       | 85                                                                                                               | 57     | 42     | 34      | 28      | 24      | 21      | 19      | 17      | 14      | F                                                                                               | SF08001                          |
|                                     | 3                                                                                        | F                                                                                              | 0.40                                                                                       | 120                                                                                                              | 80     | 60     | 48      | 40      | 34      | 30      | 27      | 24      | 19      | F                                                                                               |                                  |
|                                     | 5                                                                                        | VF                                                                                             | 0.52                                                                                       | 155                                                                                                              | 103    | 77     | 62      | 52      | 44      | 39      | 34      | 31      | 25      | VF                                                                                              |                                  |
|                                     | 7                                                                                        | VF                                                                                             | 0.61                                                                                       | 183                                                                                                              | 122    | 92     | 73      | 61      | 52      | 46      | 41      | 37      | 29      | VF                                                                                              |                                  |
| SF110015                            | 1.5                                                                                      | F                                                                                              | 0.42                                                                                       | 127                                                                                                              | 85     | 64     | 51      | 42      | 36      | 32      | 28      | 25      | 20      | F                                                                                               | SF080015                         |
|                                     | 3                                                                                        | F                                                                                              | 0.60                                                                                       | 180                                                                                                              | 120    | 90     | 72      | 60      | 51      | 45      | 40      | 36      | 29      | F                                                                                               |                                  |
|                                     | 5                                                                                        | F                                                                                              | 0.77                                                                                       | 232                                                                                                              | 155    | 116    | 93      | 77      | 66      | 58      | 52      | 46      | 37      | F                                                                                               |                                  |
|                                     | 7                                                                                        | VF                                                                                             | 0.92                                                                                       | 275                                                                                                              | 183    | 137    | 110     | 92      | 79      | 69      | 61      | 55      | 44      | VF                                                                                              |                                  |
| SF11002                             | 1.5                                                                                      | F                                                                                              | 0.57                                                                                       | 170                                                                                                              | 113    | 85     | 68      | 57      | 48      | 42      | 38      | 34      | 27      | F                                                                                               | SF08002                          |
|                                     | 3                                                                                        | F                                                                                              | 0.80                                                                                       | 240                                                                                                              | 160    | 120    | 96      | 80      | 69      | 60      | 53      | 48      | 38      | F                                                                                               |                                  |
|                                     | 5                                                                                        | F                                                                                              | 1.03                                                                                       | 310                                                                                                              | 207    | 155    | 124     | 103     | 89      | 77      | 69      | 62      | 50      | F                                                                                               |                                  |
|                                     | 7                                                                                        | F                                                                                              | 1.22                                                                                       | 367                                                                                                              | 244    | 183    | 147     | 122     | 105     | 92      | 81      | 73      | 59      | F                                                                                               |                                  |
| SF110025                            | 1.5                                                                                      | F                                                                                              | 0.71                                                                                       | 212                                                                                                              | 141    | 106    | 85      | 71      | 61      | 53      | 47      | 42      | 34      | ---                                                                                             | NA                               |
|                                     | 3                                                                                        | F                                                                                              | 1.00                                                                                       | 300                                                                                                              | 200    | 150    | 120     | 100     | 86      | 75      | 67      | 60      | 48      |                                                                                                 |                                  |
|                                     | 5                                                                                        | F                                                                                              | 1.29                                                                                       | 387                                                                                                              | 258    | 194    | 155     | 129     | 111     | 97      | 86      | 77      | 62      |                                                                                                 |                                  |
|                                     | 7                                                                                        | F                                                                                              | 1.53                                                                                       | 458                                                                                                              | 306    | 229    | 183     | 153     | 131     | 115     | 102     | 92      | 73      |                                                                                                 |                                  |
| SF11003                             | 1.5                                                                                      | F                                                                                              | 0.85                                                                                       | 255                                                                                                              | 170    | 127    | 102     | 85      | 73      | 64      | 57      | 51      | 41      | M                                                                                               | SF08003                          |
|                                     | 3                                                                                        | F                                                                                              | 1.20                                                                                       | 360                                                                                                              | 240    | 180    | 144     | 120     | 103     | 90      | 80      | 72      | 58      | F                                                                                               |                                  |
|                                     | 5                                                                                        | F                                                                                              | 1.55                                                                                       | 465                                                                                                              | 310    | 232    | 186     | 155     | 133     | 116     | 103     | 93      | 74      | F                                                                                               |                                  |
|                                     | 7                                                                                        | F                                                                                              | 1.83                                                                                       | 550                                                                                                              | 367    | 275    | 220     | 183     | 157     | 137     | 122     | 110     | 88      | F                                                                                               |                                  |
| SF11004                             | 1.5                                                                                      | M                                                                                              | 1.13                                                                                       | 339                                                                                                              | 226    | 170    | 136     | 113     | 97      | 85      | 75      | 68      | 54      | M                                                                                               | SF08004                          |
|                                     | 3                                                                                        | F                                                                                              | 1.60                                                                                       | 480                                                                                                              | 320    | 240    | 192     | 160     | 137     | 120     | 107     | 96      | 77      | M                                                                                               |                                  |
|                                     | 5                                                                                        | F                                                                                              | 2.07                                                                                       | 620                                                                                                              | 413    | 310    | 248     | 207     | 177     | 155     | 138     | 124     | 99      | F                                                                                               |                                  |
|                                     | 7                                                                                        | F                                                                                              | 2.44                                                                                       | 733                                                                                                              | 489    | 367    | 293     | 244     | 209     | 183     | 163     | 147     | 117     | F                                                                                               |                                  |
| SF11005                             | 1.5                                                                                      | M                                                                                              | 1.41                                                                                       | 424                                                                                                              | 283    | 212    | 170     | 141     | 121     | 106     | 94      | 85      | 68      | M                                                                                               | SF08005                          |
|                                     | 3                                                                                        | F                                                                                              | 2.00                                                                                       | 600                                                                                                              | 400    | 300    | 240     | 200     | 171     | 150     | 133     | 120     | 96      | M                                                                                               |                                  |
|                                     | 5                                                                                        | F                                                                                              | 2.58                                                                                       | 775                                                                                                              | 516    | 387    | 310     | 258     | 221     | 194     | 172     | 155     | 124     | M                                                                                               |                                  |
|                                     | 7                                                                                        | F                                                                                              | 3.06                                                                                       | 917                                                                                                              | 611    | 458    | 367     | 306     | 262     | 229     | 204     | 183     | 147     | M                                                                                               |                                  |
| SF11006                             | 1.5                                                                                      | M                                                                                              | 1.70                                                                                       | 509                                                                                                              | 339    | 255    | 204     | 170     | 145     | 127     | 113     | 102     | 81      | M                                                                                               | SF08006                          |
|                                     | 3                                                                                        | M                                                                                              | 2.40                                                                                       | 720                                                                                                              | 480    | 360    | 288     | 240     | 206     | 180     | 160     | 144     | 115     | M                                                                                               |                                  |
|                                     | 5                                                                                        | M                                                                                              | 3.10                                                                                       | 930                                                                                                              | 620    | 465    | 372     | 310     | 266     | 232     | 207     | 186     | 149     | M                                                                                               |                                  |
|                                     | 7                                                                                        | F                                                                                              | 3.67                                                                                       | 1.100                                                                                                            | 733    | 550    | 440     | 367     | 314     | 275     | 244     | 220     | 176     | M                                                                                               |                                  |
| SF11008                             | 1.5                                                                                      | M                                                                                              | 2.26                                                                                       | 679                                                                                                              | 453    | 339    | 272     | 226     | 194     | 170     | 151     | 136     | 109     | M                                                                                               | SF08008                          |
|                                     | 3                                                                                        | M                                                                                              | 3.20                                                                                       | 960                                                                                                              | 640    | 480    | 384     | 320     | 274     | 240     | 213     | 192     | 154     | M                                                                                               |                                  |
|                                     | 5                                                                                        | M                                                                                              | 4.13                                                                                       | 1.239                                                                                                            | 826    | 620    | 496     | 413     | 354     | 310     | 275     | 248     | 198     | M                                                                                               |                                  |
|                                     | 7                                                                                        | M                                                                                              | 4.89                                                                                       | 1.466                                                                                                            | 978    | 733    | 587     | 489     | 419     | 367     | 326     | 293     | 235     | M                                                                                               |                                  |
| SF11010                             | 1.5                                                                                      | M                                                                                              | 2.83                                                                                       | 849                                                                                                              | 566    | 424    | 339     | 283     | 242     | 212     | 189     | 170     | 136     | C                                                                                               | SF08010                          |
|                                     | 3                                                                                        | M                                                                                              | 4.00                                                                                       | 1.200                                                                                                            | 800    | 600    | 480     | 400     | 343     | 300     | 267     | 240     | 192     | C                                                                                               |                                  |
|                                     | 5                                                                                        | M                                                                                              | 5.16                                                                                       | 1.549                                                                                                            | 1.033  | 775    | 620     | 516     | 443     | 387     | 344     | 310     | 248     | M                                                                                               |                                  |
|                                     | 7                                                                                        | M                                                                                              | 6.11                                                                                       | 1.833                                                                                                            | 1.222  | 917    | 733     | 611     | 524     | 458     | 407     | 367     | 293     | M                                                                                               |                                  |
| SF11015                             | 1.5                                                                                      | C                                                                                              | 4.24                                                                                       | 1.273                                                                                                            | 849    | 636    | 509     | 424     | 364     | 318     | 283     | 255     | 204     | ---                                                                                             | NA                               |
|                                     | 3                                                                                        | C                                                                                              | 6.00                                                                                       | 1.800                                                                                                            | 1.200  | 900    | 720     | 600     | 514     | 450     | 400     | 360     | 288     |                                                                                                 |                                  |
|                                     | 5                                                                                        | C                                                                                              | 7.75                                                                                       | 2.324                                                                                                            | 1.549  | 1.162  | 930     | 775     | 664     | 581     | 516     | 465     | 372     |                                                                                                 |                                  |
|                                     | 7                                                                                        | C                                                                                              | 9.17                                                                                       | 2.750                                                                                                            | 1.833  | 1.375  | 1.100   | 917     | 786     | 687     | 611     | 550     | 440     |                                                                                                 |                                  |

|  | DIMENSIONE DELLE GOCCE<br>DROP SIZE RATING<br>DIMENSIONES DE LAS GOTAS |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| VF                                                                                  | Molto fine-Very fine-Muy fina                                          |
| F                                                                                   | Fine-Fine-Fina                                                         |
| M                                                                                   | Media-Medium-Media                                                     |
| C                                                                                   | Grossa-Coarse-Gruesa                                                   |

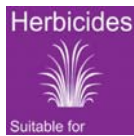
Classificazione in accordo con lo  
standard ASABE S572.3 e la norma  
ISO25358

Classification according to ASABE  
S572.3 and ISO25358

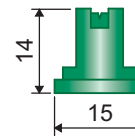
Clasificación según ASABE S572.3 e  
ISO25358



**Utilizzo  
Use  
Utilización**



**Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)**



- Copertura costante in tutto l'intervallo delle pressioni.
- Angolo costante di 110° al variare della pressione già da 1 bar.
- Riduce la deriva a pressioni di 1 -1,5 bar e garantisce un'eccellente copertura già a 1,5 - 2 bar.
- Stampato in Delrin®, ad alta stabilità chimica, che conferisce ottime caratteristiche di durata.

- Smooth coverage within a wide pressure range.
- Steady 110° jet angle as pressure changes, from 1 bar.
- They reduce drift at 1 - 1.5 bar and ensure a good coverage starting from just 1.5 - 2 bar.
- Made of molded Delrin®, a polymer ensuring high chemical stability and an exceptionally long useful life.

- Cobertura constante en un amplio rango de presiones.
- Ángulo constante de 110° al variar la presión ya desde 1 bar.
- Reduce la deriva con presiones de 1 -1,5 bar y garantiza una excelente cobertura a 1,5 - 2 bar.
- Moldeado en Delrin®, material con alta estabilidad química, que otorga excepcionales características de duración.

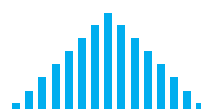
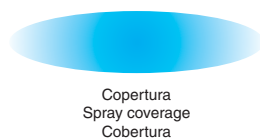
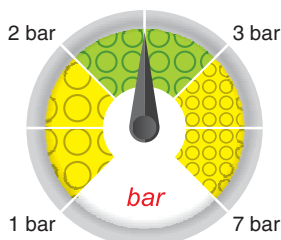
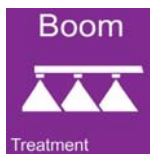


Diagramma di distribuzione ugello singolo  
Single nozzle distribution pattern  
Diagrama de distribución boquilla individual

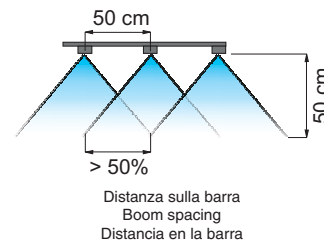
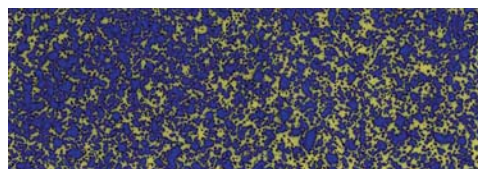


Diagramma di distribuzione su barra  
Boom distribution pattern  
Diagrama de distribución en la barra



Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco

| COD.<br>CODE<br>CÓD. | <br>bar | <br>drop | <br>l/min | l/ha (spazio tra gli ugelli: 50 cm)<br>l/ha (nozzle spacing: 50 cm)<br>l/ha (espacio entre las boquillas: 50 cm) |        |        |         |         |         |         |         |         |         |
|----------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
|                      |                                                                                          |                                                                                           |                                                                                            | 4 km/h                                                                                                           | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h | 25 km/h |
| WR11001              | 1                                                                                        | F                                                                                         | 0.23                                                                                       | 69                                                                                                               | 46     | 35     | 28      | 23      | 20      | 17      | 15      | 14      | 11      |
|                      | 2                                                                                        | F                                                                                         | 0.33                                                                                       | 98                                                                                                               | 65     | 49     | 39      | 33      | 28      | 24      | 22      | 20      | 16      |
|                      | 3                                                                                        | F                                                                                         | 0.40                                                                                       | 120                                                                                                              | 80     | 60     | 48      | 40      | 34      | 30      | 27      | 24      | 19      |
|                      | 5                                                                                        | VF                                                                                        | 0.52                                                                                       | 155                                                                                                              | 103    | 77     | 62      | 52      | 44      | 39      | 34      | 31      | 25      |
|                      | 7                                                                                        | VF                                                                                        | 0.61                                                                                       | 183                                                                                                              | 122    | 92     | 73      | 61      | 52      | 46      | 41      | 37      | 29      |
| WR110015             | 1                                                                                        | F                                                                                         | 0.35                                                                                       | 104                                                                                                              | 69     | 52     | 42      | 35      | 30      | 26      | 23      | 21      | 17      |
|                      | 2                                                                                        | F                                                                                         | 0.49                                                                                       | 147                                                                                                              | 98     | 73     | 59      | 49      | 42      | 37      | 33      | 29      | 24      |
|                      | 3                                                                                        | F                                                                                         | 0.60                                                                                       | 180                                                                                                              | 120    | 90     | 72      | 60      | 51      | 45      | 40      | 36      | 29      |
|                      | 5                                                                                        | F                                                                                         | 0.77                                                                                       | 232                                                                                                              | 155    | 116    | 93      | 77      | 66      | 58      | 52      | 46      | 37      |
|                      | 7                                                                                        | VF                                                                                        | 0.92                                                                                       | 275                                                                                                              | 183    | 137    | 110     | 92      | 79      | 69      | 61      | 55      | 44      |
| WR11002              | 1                                                                                        | M                                                                                         | 0.46                                                                                       | 139                                                                                                              | 92     | 69     | 55      | 46      | 40      | 35      | 31      | 28      | 22      |
|                      | 2                                                                                        | F                                                                                         | 0.65                                                                                       | 196                                                                                                              | 131    | 98     | 78      | 65      | 56      | 49      | 44      | 39      | 31      |
|                      | 3                                                                                        | F                                                                                         | 0.80                                                                                       | 240                                                                                                              | 160    | 120    | 96      | 80      | 69      | 60      | 53      | 48      | 38      |
|                      | 5                                                                                        | F                                                                                         | 1.03                                                                                       | 310                                                                                                              | 207    | 155    | 124     | 103     | 89      | 77      | 69      | 62      | 50      |
|                      | 7                                                                                        | F                                                                                         | 1.22                                                                                       | 367                                                                                                              | 244    | 183    | 147     | 122     | 105     | 92      | 81      | 73      | 59      |
| WR110025             | 1                                                                                        | M                                                                                         | 0.58                                                                                       | 173                                                                                                              | 115    | 87     | 69      | 58      | 49      | 43      | 38      | 35      | 28      |
|                      | 2                                                                                        | F                                                                                         | 0.82                                                                                       | 245                                                                                                              | 163    | 122    | 98      | 82      | 70      | 61      | 54      | 49      | 39      |
|                      | 3                                                                                        | F                                                                                         | 1.00                                                                                       | 300                                                                                                              | 200    | 150    | 120     | 100     | 86      | 75      | 67      | 60      | 48      |
|                      | 5                                                                                        | F                                                                                         | 1.29                                                                                       | 387                                                                                                              | 258    | 194    | 155     | 129     | 111     | 97      | 86      | 77      | 62      |
|                      | 7                                                                                        | F                                                                                         | 1.53                                                                                       | 458                                                                                                              | 306    | 229    | 183     | 153     | 131     | 115     | 102     | 92      | 73      |
| WR11003              | 1                                                                                        | M                                                                                         | 0.69                                                                                       | 208                                                                                                              | 139    | 104    | 83      | 69      | 59      | 52      | 46      | 42      | 33      |
|                      | 2                                                                                        | M                                                                                         | 0.98                                                                                       | 294                                                                                                              | 196    | 147    | 118     | 98      | 84      | 73      | 65      | 59      | 47      |
|                      | 3                                                                                        | F                                                                                         | 1.20                                                                                       | 360                                                                                                              | 240    | 180    | 144     | 120     | 103     | 90      | 80      | 72      | 58      |
|                      | 5                                                                                        | F                                                                                         | 1.55                                                                                       | 465                                                                                                              | 310    | 232    | 186     | 155     | 133     | 116     | 103     | 93      | 74      |
|                      | 7                                                                                        | F                                                                                         | 1.83                                                                                       | 550                                                                                                              | 367    | 275    | 220     | 183     | 157     | 137     | 122     | 110     | 88      |
| WR11004              | 1                                                                                        | M                                                                                         | 0.92                                                                                       | 277                                                                                                              | 185    | 139    | 111     | 92      | 79      | 69      | 62      | 55      | 44      |
|                      | 2                                                                                        | M                                                                                         | 1.31                                                                                       | 392                                                                                                              | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 63      |
|                      | 3                                                                                        | M                                                                                         | 1.60                                                                                       | 480                                                                                                              | 320    | 240    | 192     | 160     | 137     | 120     | 107     | 96      | 77      |
|                      | 5                                                                                        | M                                                                                         | 2.07                                                                                       | 620                                                                                                              | 413    | 310    | 248     | 207     | 177     | 155     | 138     | 124     | 99      |
|                      | 7                                                                                        | M                                                                                         | 2.44                                                                                       | 733                                                                                                              | 489    | 367    | 293     | 244     | 209     | 183     | 163     | 147     | 117     |
| WR11005              | 1                                                                                        | M                                                                                         | 1.15                                                                                       | 346                                                                                                              | 231    | 173    | 139     | 115     | 99      | 87      | 77      | 69      | 55      |
|                      | 2                                                                                        | M                                                                                         | 1.63                                                                                       | 490                                                                                                              | 327    | 245    | 196     | 163     | 140     | 122     | 109     | 98      | 78      |
|                      | 3                                                                                        | M                                                                                         | 2.00                                                                                       | 600                                                                                                              | 400    | 300    | 240     | 200     | 171     | 150     | 133     | 120     | 96      |
|                      | 5                                                                                        | M                                                                                         | 2.58                                                                                       | 775                                                                                                              | 516    | 387    | 310     | 258     | 221     | 194     | 172     | 155     | 124     |
|                      | 7                                                                                        | M                                                                                         | 3.06                                                                                       | 917                                                                                                              | 611    | 458    | 367     | 306     | 262     | 229     | 204     | 183     | 147     |
| WR11006              | 1                                                                                        | C                                                                                         | 1.39                                                                                       | 416                                                                                                              | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 67      |
|                      | 2                                                                                        | M                                                                                         | 1.96                                                                                       | 588                                                                                                              | 392    | 294    | 235     | 196     | 168     | 147     | 131     | 118     | 94      |
|                      | 3                                                                                        | M                                                                                         | 2.40                                                                                       | 720                                                                                                              | 480    | 360    | 288     | 240     | 206     | 180     | 160     | 144     | 115     |
|                      | 5                                                                                        | M                                                                                         | 3.10                                                                                       | 930                                                                                                              | 620    | 465    | 372     | 310     | 266     | 232     | 207     | 186     | 149     |
|                      | 7                                                                                        | M                                                                                         | 3.67                                                                                       | 1.100                                                                                                            | 733    | 550    | 440     | 367     | 314     | 275     | 244     | 220     | 176     |

 **DIMENSIONE DELLE GOCCE**  
**DROP SIZE RATING**  
**DIMENSIONES DE LAS GOTAS**

|    |                               |
|----|-------------------------------|
| VF | Molto fine-Very fine-Muy fina |
| F  | Fine-Fine-Fina                |
| M  | Media-Medium-Media            |
| C  | Grossa-Coarse-Gruesa          |

Classificazione in accordo con lo standard ASABE S572.3 e la norma ISO25358

Classification according to ASABE S572.3 and ISO25358

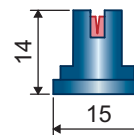
Clasificación según ASABE S572.3 e ISO25358



### Utilizzo Use Utilización



Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)

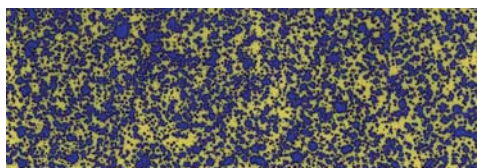
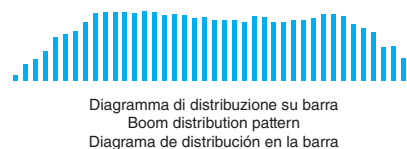
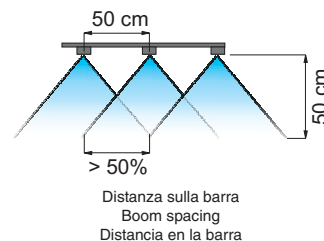
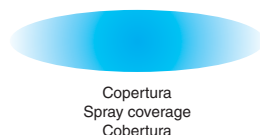
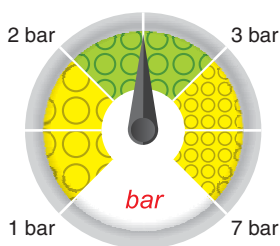
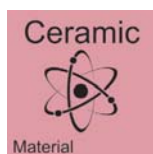
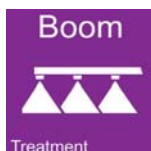


- Copertura costante in tutto l'intervallo delle pressioni.
- Angolo costante di 110° al variare della pressione già da 1 bar.
- Riduce la deriva a pressioni di 1 - 1,5 bar e garantisce un'eccellente copertura già a 1,5 - 2 bar.
- Il corpo esterno stampato in Delrin®, unito all'inserto in ceramica conferisce eccezionali caratteristiche di durata.
- Certificato ENAMA ed ENTAM.

- Smooth coverage within a wide pressure range.
- Steady 110° jet angle as pressure changes, from 1 bar.
- They reduce drift at 1 - 1.5 bar and ensure a good coverage starting from just 1.5 - 2 bar.
- Their Delrin®-molded outer body, together with their ceramic insert, ensures an exceptionally long useful life.
- ENTAM and ENAMA certified.

- Cobertura constante en un amplio rango de presiones.
- Ángulo constante de 110° al variar la presión ya desde 1 bar.
- Reduce la deriva con presiones de 1 - 1,5 bar y garantiza una excelente cobertura a 1,5 - 2 bar.
- El cuerpo exterior moldeado en Delrin®, junto al inserto de cerámica, le otorga excepcionales características de durabilidad.
- Certificado ENAMA y ENTAM.

**ENAMA**  
COMPONENTE  
CERTIFICATO  
46a.006/013



| COD.<br>CODE<br>CÓD. | <br>bar | <br>drop | <br>l/min | l/ha (spazio tra gli ugelli: 50 cm)<br>l/ha (nozzle spacing: 50 cm)<br>l/ha (espacio entre las boquillas: 50 cm) |        |        |         |         |         |         |         |         |         |
|----------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
|                      |                                                                                          |                                                                                           |                                                                                            | 4 km/h                                                                                                           | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h | 25 km/h |
| WRC110015            | 1                                                                                        | F                                                                                         | 0.35                                                                                       | 104                                                                                                              | 69     | 52     | 42      | 35      | 30      | 26      | 23      | 21      | 17      |
|                      | 2                                                                                        | F                                                                                         | 0.49                                                                                       | 147                                                                                                              | 98     | 73     | 59      | 49      | 42      | 37      | 33      | 29      | 24      |
|                      | 3                                                                                        | F                                                                                         | 0.60                                                                                       | 180                                                                                                              | 120    | 90     | 72      | 60      | 51      | 45      | 40      | 36      | 29      |
|                      | 5                                                                                        | F                                                                                         | 0.77                                                                                       | 232                                                                                                              | 155    | 116    | 93      | 77      | 66      | 58      | 52      | 46      | 37      |
|                      | 7                                                                                        | VF                                                                                        | 0.92                                                                                       | 275                                                                                                              | 183    | 137    | 110     | 92      | 79      | 69      | 61      | 55      | 44      |
| WRC11002             | 1                                                                                        | F                                                                                         | 0.46                                                                                       | 139                                                                                                              | 92     | 69     | 55      | 46      | 40      | 35      | 31      | 28      | 22      |
|                      | 2                                                                                        | F                                                                                         | 0.65                                                                                       | 196                                                                                                              | 131    | 98     | 78      | 65      | 56      | 49      | 44      | 39      | 31      |
|                      | 3                                                                                        | F                                                                                         | 0.80                                                                                       | 240                                                                                                              | 160    | 120    | 96      | 80      | 69      | 60      | 53      | 48      | 38      |
|                      | 5                                                                                        | F                                                                                         | 1.03                                                                                       | 310                                                                                                              | 207    | 155    | 124     | 103     | 89      | 77      | 69      | 62      | 50      |
|                      | 7                                                                                        | F                                                                                         | 1.22                                                                                       | 367                                                                                                              | 244    | 183    | 147     | 122     | 105     | 92      | 81      | 73      | 59      |
| WRC110025            | 1                                                                                        | M                                                                                         | 0.58                                                                                       | 173                                                                                                              | 115    | 87     | 69      | 58      | 49      | 43      | 38      | 35      | 28      |
|                      | 2                                                                                        | F                                                                                         | 0.82                                                                                       | 245                                                                                                              | 163    | 122    | 98      | 82      | 70      | 61      | 54      | 49      | 39      |
|                      | 3                                                                                        | F                                                                                         | 1.00                                                                                       | 300                                                                                                              | 200    | 150    | 120     | 100     | 86      | 75      | 67      | 60      | 48      |
|                      | 5                                                                                        | F                                                                                         | 1.29                                                                                       | 387                                                                                                              | 258    | 194    | 155     | 129     | 111     | 97      | 86      | 77      | 62      |
|                      | 7                                                                                        | F                                                                                         | 1.53                                                                                       | 458                                                                                                              | 306    | 229    | 183     | 153     | 131     | 115     | 102     | 92      | 73      |
| WRC11003             | 1                                                                                        | M                                                                                         | 0.69                                                                                       | 208                                                                                                              | 139    | 104    | 83      | 69      | 59      | 52      | 46      | 42      | 33      |
|                      | 2                                                                                        | F                                                                                         | 0.98                                                                                       | 294                                                                                                              | 196    | 147    | 118     | 98      | 84      | 73      | 65      | 59      | 47      |
|                      | 3                                                                                        | F                                                                                         | 1.20                                                                                       | 360                                                                                                              | 240    | 180    | 144     | 120     | 103     | 90      | 80      | 72      | 58      |
|                      | 5                                                                                        | F                                                                                         | 1.55                                                                                       | 465                                                                                                              | 310    | 232    | 186     | 155     | 133     | 116     | 103     | 93      | 74      |
|                      | 7                                                                                        | F                                                                                         | 1.83                                                                                       | 550                                                                                                              | 367    | 275    | 220     | 183     | 157     | 137     | 122     | 110     | 88      |
| WRC11004             | 1                                                                                        | M                                                                                         | 0.92                                                                                       | 277                                                                                                              | 185    | 139    | 111     | 92      | 79      | 69      | 62      | 55      | 44      |
|                      | 2                                                                                        | M                                                                                         | 1.31                                                                                       | 392                                                                                                              | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 63      |
|                      | 3                                                                                        | F                                                                                         | 1.60                                                                                       | 480                                                                                                              | 320    | 240    | 192     | 160     | 137     | 120     | 107     | 96      | 77      |
|                      | 5                                                                                        | F                                                                                         | 2.07                                                                                       | 620                                                                                                              | 413    | 310    | 248     | 207     | 177     | 155     | 138     | 124     | 99      |
|                      | 7                                                                                        | F                                                                                         | 2.44                                                                                       | 733                                                                                                              | 489    | 367    | 293     | 244     | 209     | 183     | 163     | 147     | 117     |
| WRC11005             | 1                                                                                        | M                                                                                         | 1.15                                                                                       | 346                                                                                                              | 231    | 173    | 139     | 115     | 99      | 87      | 77      | 69      | 55      |
|                      | 2                                                                                        | M                                                                                         | 1.63                                                                                       | 490                                                                                                              | 327    | 245    | 196     | 163     | 140     | 122     | 109     | 98      | 78      |
|                      | 3                                                                                        | F                                                                                         | 2.00                                                                                       | 600                                                                                                              | 400    | 300    | 240     | 200     | 171     | 150     | 133     | 120     | 96      |
|                      | 5                                                                                        | F                                                                                         | 2.58                                                                                       | 775                                                                                                              | 516    | 387    | 310     | 258     | 221     | 194     | 172     | 155     | 124     |
|                      | 7                                                                                        | F                                                                                         | 3.06                                                                                       | 917                                                                                                              | 611    | 458    | 367     | 306     | 262     | 229     | 204     | 183     | 147     |
| WRC11006             | 1                                                                                        | M                                                                                         | 1.39                                                                                       | 416                                                                                                              | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 67      |
|                      | 2                                                                                        | M                                                                                         | 1.96                                                                                       | 588                                                                                                              | 392    | 294    | 235     | 196     | 168     | 147     | 131     | 118     | 94      |
|                      | 3                                                                                        | M                                                                                         | 2.40                                                                                       | 720                                                                                                              | 480    | 360    | 288     | 240     | 206     | 180     | 160     | 144     | 115     |
|                      | 5                                                                                        | M                                                                                         | 3.10                                                                                       | 930                                                                                                              | 620    | 465    | 372     | 310     | 266     | 232     | 207     | 186     | 149     |
|                      | 7                                                                                        | M                                                                                         | 3.67                                                                                       | 1.100                                                                                                            | 733    | 550    | 440     | 367     | 314     | 275     | 244     | 220     | 176     |
| WRC11008             | 1                                                                                        | C                                                                                         | 1.85                                                                                       | 554                                                                                                              | 370    | 277    | 222     | 185     | 158     | 139     | 123     | 111     | 89      |
|                      | 2                                                                                        | M                                                                                         | 2.61                                                                                       | 784                                                                                                              | 523    | 392    | 314     | 261     | 224     | 196     | 174     | 157     | 125     |
|                      | 3                                                                                        | M                                                                                         | 3.20                                                                                       | 960                                                                                                              | 640    | 480    | 384     | 320     | 274     | 240     | 213     | 192     | 154     |
|                      | 5                                                                                        | M                                                                                         | 4.13                                                                                       | 1.239                                                                                                            | 826    | 620    | 496     | 413     | 354     | 310     | 275     | 248     | 198     |
|                      | 7                                                                                        | M                                                                                         | 4.89                                                                                       | 1.466                                                                                                            | 978    | 733    | 587     | 489     | 419     | 367     | 326     | 293     | 235     |

|  | DIMENSIONE DELLE GOCCE<br>DROP SIZE RATING<br>DIMENSIONES DE LAS GOTAS |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| VF                                                                                  | Molto fine-Very fine-Muy fina                                          |
| F                                                                                   | Fine-Fine-Fina                                                         |
| M                                                                                   | Media-Medium-Media                                                     |
| C                                                                                   | Grossa-Coarse-Gruesa                                                   |
| XC                                                                                  | Estremamente grossa-Extremely coarse-Extremadamente gruesa             |

Classificazione in accordo con lo standard ASABE S572.3 e la norma ISO25358

Classification according to ASABE S572.3 and ISO25358

Clasificación según ASABE S572.3 e ISO25358



Utilizzo  
Use  
Utilización

Herbicides



Suitable for

Fungicides



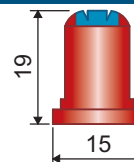
Suitable for

Insecticides



Suitable for

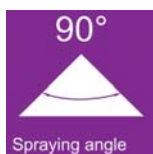
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



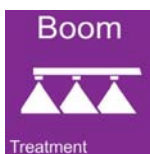
- Offrono una buona copertura, migliorando la penetrazione ed il deposito dei prodotti.
- Gli ugelli hanno la stessa portata degli ugelli Standard Fan, ma le goccioline sono più piccole e quindi si ottiene una copertura migliore.
- Ugello a doppia uscita in un solo corpo.
- La filtrazione dev'essere calcolata dividendo a metà quella di un ugello standard.
- Stampato in Delrin®, ad alta stabilità chimica, che conferisce ottime caratteristiche di durata.

- They ensure a good coverage and enhance product penetration and settling.
- They have the same rate as Standard Fan nozzles but spray smaller drops and therefore ensure improved coverage.
- Twin nozzles - two spraying points in one body.
- Filtration should be half the value of a standard nozzle.
- Made of molded Delrin®, a polymer ensuring high chemical stability and an exceptionally long useful life.

- Ofrecen una buena cobertura, mejorando la penetración y el depósito de los productos.
- Las boquillas tienen el mismo caudal que las boquillas Standard Fan, pero las gotas son más pequeñas y por lo tanto se obtiene una mejor cobertura.
- Boquilla de doble salida en un solo cuerpo.
- El filtrado se debe calcular dividiendo a la mitad el de una boquilla estándar.
- Moldeado en Delrin®, material con alta estabilidad química, que otorga excepcionales características de duración.



Spraying angle



Treatment



Acetal Resin

Material



ISO  
10625

Colour coding



402901xx

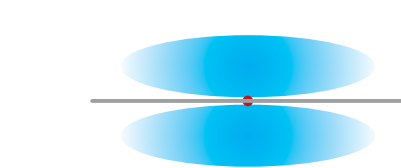
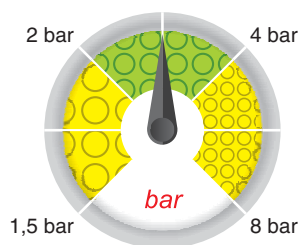
Cap



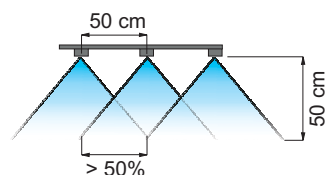
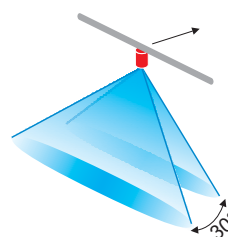
10 pcs.

cod.  
+ B1

Blister pack



Copertura  
Spray coverage  
Cobertura



Distanza sulla barra  
Boom spacing  
Distancia en la barra

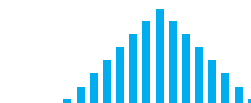


Diagramma di distribuzione ugello singolo  
Single nozzle distribution pattern  
Diagrama de distribución boquilla individual

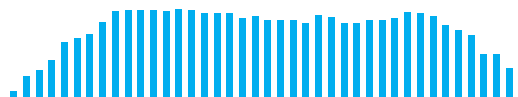
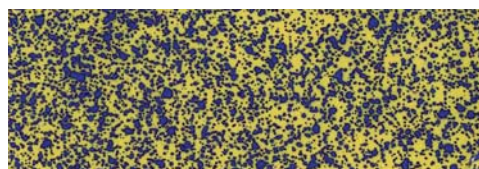


Diagramma di distribuzione su barra  
Boom distribution pattern  
Diagrama de distribución en la barra



Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco

| COD.<br>CODE<br>CÓD. |  |  |  | l/ha (spazio tra gli ugelli: 50 cm)<br>l/ha (nozzle spacing: 50 cm)<br>l/ha (espacio entre las boquillas: 50 cm) |        |        |         |         |         |         |         |         |         |
|----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
|                      | bar                                                                               | drop                                                                              | l/min                                                                             | 4 km/h                                                                                                           | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h | 25 km/h |
| TFS11002             | 1.5                                                                               | F                                                                                 | 0.57                                                                              | 170                                                                                                              | 113    | 85     | 68      | 57      | 48      | 42      | 38      | 34      | 27      |
|                      | 2                                                                                 | F                                                                                 | 0.65                                                                              | 196                                                                                                              | 131    | 98     | 78      | 65      | 56      | 49      | 44      | 39      | 31      |
|                      | 3                                                                                 | F                                                                                 | 0.80                                                                              | 240                                                                                                              | 160    | 120    | 96      | 80      | 69      | 60      | 53      | 48      | 38      |
|                      | 4                                                                                 | F                                                                                 | 0.92                                                                              | 277                                                                                                              | 185    | 139    | 111     | 92      | 79      | 69      | 62      | 55      | 44      |
|                      | 6                                                                                 | VF                                                                                | 1.13                                                                              | 339                                                                                                              | 226    | 170    | 136     | 113     | 97      | 85      | 75      | 68      | 54      |
|                      | 8                                                                                 | VF                                                                                | 1.31                                                                              | 392                                                                                                              | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 63      |
| TFS11003             | 1.5                                                                               | M                                                                                 | 0.85                                                                              | 255                                                                                                              | 170    | 127    | 102     | 85      | 73      | 64      | 57      | 51      | 41      |
|                      | 2                                                                                 | M                                                                                 | 0.98                                                                              | 294                                                                                                              | 196    | 147    | 118     | 98      | 84      | 73      | 65      | 59      | 47      |
|                      | 3                                                                                 | F                                                                                 | 1.20                                                                              | 360                                                                                                              | 240    | 180    | 144     | 120     | 103     | 90      | 80      | 72      | 58      |
|                      | 4                                                                                 | F                                                                                 | 1.39                                                                              | 416                                                                                                              | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 67      |
|                      | 6                                                                                 | F                                                                                 | 1.70                                                                              | 509                                                                                                              | 339    | 255    | 204     | 170     | 145     | 127     | 113     | 102     | 81      |
|                      | 8                                                                                 | F                                                                                 | 1.96                                                                              | 588                                                                                                              | 392    | 294    | 235     | 196     | 168     | 147     | 131     | 118     | 94      |
| TFS11004             | 1.5                                                                               | M                                                                                 | 1.13                                                                              | 339                                                                                                              | 226    | 170    | 136     | 113     | 97      | 85      | 75      | 68      | 54      |
|                      | 2                                                                                 | M                                                                                 | 1.31                                                                              | 392                                                                                                              | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 63      |
|                      | 3                                                                                 | F                                                                                 | 1.60                                                                              | 480                                                                                                              | 320    | 240    | 192     | 160     | 137     | 120     | 107     | 96      | 77      |
|                      | 4                                                                                 | F                                                                                 | 1.85                                                                              | 554                                                                                                              | 370    | 277    | 222     | 185     | 158     | 139     | 123     | 111     | 89      |
|                      | 6                                                                                 | F                                                                                 | 2.26                                                                              | 679                                                                                                              | 453    | 339    | 272     | 226     | 194     | 170     | 151     | 136     | 109     |
|                      | 8                                                                                 | F                                                                                 | 2.61                                                                              | 784                                                                                                              | 523    | 392    | 314     | 261     | 224     | 196     | 174     | 157     | 125     |
| TFS11005             | 1.5                                                                               | M                                                                                 | 1.41                                                                              | 424                                                                                                              | 283    | 212    | 170     | 141     | 121     | 106     | 94      | 85      | 68      |
|                      | 2                                                                                 | M                                                                                 | 1.63                                                                              | 490                                                                                                              | 327    | 245    | 196     | 163     | 140     | 122     | 109     | 98      | 78      |
|                      | 3                                                                                 | M                                                                                 | 2.00                                                                              | 600                                                                                                              | 400    | 300    | 240     | 200     | 171     | 150     | 133     | 120     | 96      |
|                      | 4                                                                                 | M                                                                                 | 2.31                                                                              | 693                                                                                                              | 462    | 346    | 277     | 231     | 198     | 173     | 154     | 139     | 111     |
|                      | 6                                                                                 | F                                                                                 | 2.83                                                                              | 849                                                                                                              | 566    | 424    | 339     | 283     | 242     | 212     | 189     | 170     | 136     |
|                      | 8                                                                                 | F                                                                                 | 3.27                                                                              | 980                                                                                                              | 653    | 490    | 392     | 327     | 280     | 245     | 218     | 196     | 157     |

|                                                                                     |                                                                                             |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|  | <b>DIMENSIONE DELLE GOCCE</b><br><b>DROP SIZE RATING</b><br><b>DIMENSIONES DE LAS GOTAS</b> |
| <b>VF</b>                                                                           | Molto fine-Very fine-Muy fina                                                               |
| <b>F</b>                                                                            | Fine-Fine-Fina                                                                              |
| <b>M</b>                                                                            | Media-Medium-Media                                                                          |

Classificazione in accordo con lo standard  
ASABE S572.3 e la norma ISO25358

Classification according to ASABE S572.3  
and ISO25358

Clasificación según ASABE S572.3 e  
ISO25358

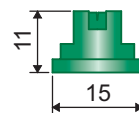




Utilizzo  
Use  
Utilización



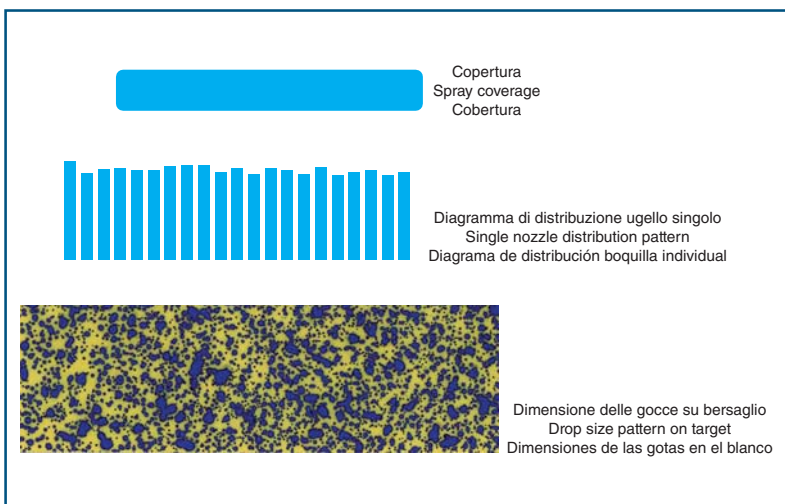
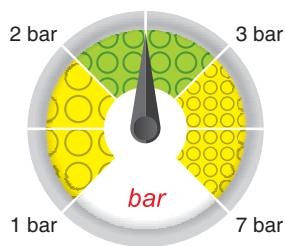
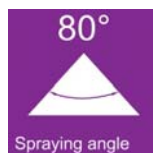
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



- Utilizzabili su barre da diserbo per trattamenti a banda e con pompa a spalla.
- Ottimi anche nei programmi di contenimento degli insetti, montati su irroratori a compressione per l'applicazione sui muri e sulle superfici delle abitazioni.
- Stampato in Delrin®, ad alta stabilità chimica, che conferisce ottime caratteristiche di durata.
- Adatti per trattamenti eseguiti con pompa a spalla.

- Used on crop spraying booms for band spraying, and on knapsack pumps.
- These nozzles can also be fitted onto compression sprayers which spray products onto walls and house surfaces to prevent insect growth within pest-control programs.
- Made of molded Delrin®, a polymer ensuring high chemical stability and an exceptionally long useful life.
- Suitable for knapsack pump spraying.

- Se pueden utilizar en barras de pulverización para tratamientos en banda y con bomba de mochila.
- Óptimo en los programas de contención de los insectos, montadas en pulverizadoras a compresión para la aplicación en paredes y en superficies de habitaciones.
- Moldeado en Delrin®, material con alta estabilidad química, que otorga excepcionales características de duración.
- Aptos para tratamientos realizados con bomba de mochila.



**DISTRIBUZIONE SU BANDA**

Nel caso di trattamento su bande, la quantità reale di liquido distribuito in l/ha si ottiene moltiplicando la portata generica per una costante specifica. A seconda dell'altezza degli ugelli dal suolo (h), la costante è calcolata dividiendo la spaziatura degli ugelli (S) per la larghezza della banda (W).

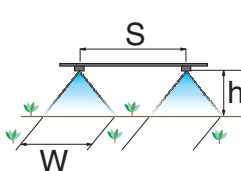
**BAND APPLICATION RATE**

In case of band spraying, the actual amount of sprayed chemical-expressed in l/ha- is obtained by multiplying general rate by a special constant. Depending on nozzle distance from the ground (h-height), the constant value is calculated by dividing nozzle spacing (S-Spacing) by band length (W-Width).

**DISTRIBUCIÓN EN BANDA**

En el caso de tratamiento en bandas, la cantidad real de líquido distribuido en l/ha se obtiene multiplicando el caudal genérico por una constante específica. De acuerdo a la altura de las boquillas del suelo (h), la constante está calculada dividiendo los espacios de las boquillas (S) por la anchura de la banda (W).

|       |       | 50 cm | 75 cm | 100 cm |                                   |
|-------|-------|-------|-------|--------|-----------------------------------|
|       |       |       |       |        |                                   |
| 12 cm | 20 cm | 2.5   | 3.8   | 5.0    | Costante<br>Constant<br>Constante |
| 15 cm | 25 cm | 2.0   | 3.0   | 4.0    |                                   |
| 18 cm | 30 cm | 1.7   | 2.5   | 3.3    |                                   |
| 21 cm | 35 cm | 1.5   | 2.1   | 2.9    |                                   |
| 24 cm | 40 cm | 1.3   | 1.9   | 2.5    |                                   |
| 27 cm | 45 cm | 1.1   | 1.7   | 2.2    |                                   |



|                                           |   |
|-------------------------------------------|---|
| Costanti per il trattamento a banda =     | S |
| Constants for band spraying =             | W |
| Constantes para el tratamiento en banda = |   |

Portata per l'applicazione a banda = Portata del trattamento di copertura per costante  
Band application rate = Broadcast application rate x constant  
Caudal para la aplicación en banda = Caudal del tratamiento de cobertura por constante

## TRATTAMENTO DI COPERTURA

## OVERALL SPRAYING

## TRATAMIENTO DE COBERTURA

| COD.<br>CODE<br>CÓD. | <br>bar | <br>drop | <br>l/min | l/ha   |        |         |        |        |         |        |        |         |
|----------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------|--------|---------|--------|--------|---------|--------|--------|---------|
|                      |                                                                                          |                                                                                           |                                                                                            | 50 cm  |        |         | 75 cm  |        |         | 100 cm |        |         |
|                      |                                                                                          |                                                                                           |                                                                                            | 6 km/h | 8 km/h | 10 km/h | 6 km/h | 8 km/h | 10 km/h | 6 km/h | 8 km/h | 10 km/h |
| EF080015             | 1                                                                                        | F                                                                                         | 0.35                                                                                       | 69     | 52     | 42      | 46     | 35     | 28      | 35     | 26     | 21      |
|                      | 2                                                                                        | F                                                                                         | 0.49                                                                                       | 98     | 73     | 59      | 65     | 49     | 39      | 49     | 37     | 29      |
|                      | 3                                                                                        | F                                                                                         | 0.60                                                                                       | 120    | 90     | 72      | 80     | 60     | 48      | 60     | 45     | 36      |
|                      | 5                                                                                        | F                                                                                         | 0.77                                                                                       | 155    | 116    | 93      | 103    | 77     | 62      | 77     | 58     | 46      |
|                      | 7                                                                                        | VF                                                                                        | 0.92                                                                                       | 183    | 137    | 110     | 122    | 92     | 73      | 92     | 69     | 55      |
| EF08002              | 1                                                                                        | F                                                                                         | 0.46                                                                                       | 92     | 69     | 55      | 62     | 46     | 37      | 46     | 35     | 28      |
|                      | 2                                                                                        | F                                                                                         | 0.65                                                                                       | 131    | 98     | 78      | 87     | 65     | 52      | 65     | 49     | 39      |
|                      | 3                                                                                        | F                                                                                         | 0.80                                                                                       | 160    | 120    | 96      | 107    | 80     | 64      | 80     | 60     | 48      |
|                      | 5                                                                                        | F                                                                                         | 1.03                                                                                       | 207    | 155    | 124     | 138    | 103    | 83      | 103    | 77     | 62      |
|                      | 7                                                                                        | F                                                                                         | 1.22                                                                                       | 244    | 183    | 147     | 163    | 122    | 98      | 122    | 92     | 73      |
| EF08003              | 1                                                                                        | M                                                                                         | 0.69                                                                                       | 139    | 104    | 83      | 92     | 69     | 55      | 69     | 52     | 42      |
|                      | 2                                                                                        | F                                                                                         | 0.98                                                                                       | 196    | 147    | 118     | 131    | 98     | 78      | 98     | 73     | 59      |
|                      | 3                                                                                        | F                                                                                         | 1.20                                                                                       | 240    | 180    | 144     | 160    | 120    | 96      | 120    | 90     | 72      |
|                      | 5                                                                                        | F                                                                                         | 1.55                                                                                       | 310    | 232    | 186     | 207    | 155    | 124     | 155    | 116    | 93      |
|                      | 7                                                                                        | F                                                                                         | 1.83                                                                                       | 367    | 275    | 220     | 244    | 183    | 147     | 183    | 137    | 110     |
| EF08004              | 1                                                                                        | M                                                                                         | 0.92                                                                                       | 185    | 139    | 111     | 123    | 92     | 74      | 92     | 69     | 55      |
|                      | 2                                                                                        | M                                                                                         | 1.31                                                                                       | 261    | 196    | 157     | 174    | 131    | 105     | 131    | 98     | 78      |
|                      | 3                                                                                        | F                                                                                         | 1.60                                                                                       | 320    | 240    | 192     | 213    | 160    | 128     | 160    | 120    | 96      |
|                      | 5                                                                                        | F                                                                                         | 2.07                                                                                       | 413    | 310    | 248     | 275    | 207    | 165     | 207    | 155    | 124     |
|                      | 7                                                                                        | F                                                                                         | 2.44                                                                                       | 489    | 367    | 293     | 326    | 244    | 196     | 244    | 183    | 147     |

 **DIMENSIONE DELLE GOCCE**  
**DROP SIZE RATING**  
**DIMENSIONES DE LAS GOTAS**

**VF** Molto fine-Very fine-Muy fina

**F** Fine-Fine-Fina

**M** Media-Medium-Media

Classificazione in accordo con lo standard  
ASABE S572.3 e la norma ISO25358

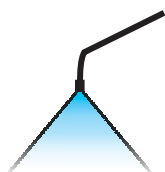
Classification according to ASABE S572.3  
and ISO25358

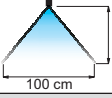
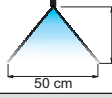
Clasificación según ASABE S572.3 e  
ISO25358

## TRATTAMENTO CON POMPA A SPALLA

## KNAPSACK SPRAYING

## TRATAMIENTO CON PULVERIZADOR DE MOCHILA



| COD.<br>CODE<br>CÓD. | <br>bar | <br>l/min | l/ha @ 60 m/min                                                                     |                                                                                     |
|----------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                      |                                                                                            |                                                                                              |  |  |
| EF080015             | 1                                                                                          | 0.35                                                                                         | 57                                                                                  | 115                                                                                 |
|                      | 2                                                                                          | 0.49                                                                                         | 81                                                                                  | 163                                                                                 |
|                      | 3                                                                                          | 0.60                                                                                         | 100                                                                                 | 200                                                                                 |
|                      | 4                                                                                          | 0.69                                                                                         | 115                                                                                 | 231                                                                                 |
| EF08002              | 1                                                                                          | 0.46                                                                                         | 77                                                                                  | 154                                                                                 |
|                      | 2                                                                                          | 0.65                                                                                         | 109                                                                                 | 218                                                                                 |
|                      | 3                                                                                          | 0.80                                                                                         | 133                                                                                 | 267                                                                                 |
|                      | 4                                                                                          | 0.92                                                                                         | 154                                                                                 | 308                                                                                 |
| EF08003              | 1                                                                                          | 0.69                                                                                         | 115                                                                                 | 231                                                                                 |
|                      | 2                                                                                          | 0.98                                                                                         | 163                                                                                 | 327                                                                                 |
|                      | 3                                                                                          | 1.20                                                                                         | 200                                                                                 | 400                                                                                 |
|                      | 4                                                                                          | 1.39                                                                                         | 231                                                                                 | 462                                                                                 |
| EF08004              | 1                                                                                          | 0.92                                                                                         | 154                                                                                 | 308                                                                                 |
|                      | 2                                                                                          | 1.31                                                                                         | 217                                                                                 | 435                                                                                 |
|                      | 3                                                                                          | 1.60                                                                                         | 267                                                                                 | 533                                                                                 |
|                      | 4                                                                                          | 1.85                                                                                         | 308                                                                                 | 616                                                                                 |





Utilizzo  
Use  
Utilización

Herbicides



Suitable for

Fungicides



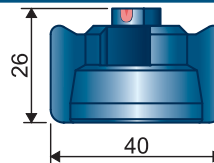
Suitable for

Insecticides



Suitable for

Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



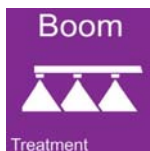
- Fast Cap è una testina ad attacco rapido con ugello in ceramica incorporato, che ha le stesse caratteristiche del modello WRC.
- Copertura costante in tutto l'intervallo di pressioni.
- Angolo costante di 110° al variare della pressione già da 1 bar.
- Riduce la deriva a pressioni di 1 - 1,5 bar e garantisce un'eccellente copertura già a 1,5 - 2 bar.
- Facile manutenzione.
- Montaggio rapido.
- **Guarnizione (codice 402 200.040) inclusa.**

- Fast Cap is a quick-coupling nozzle cap with ceramic nozzle insert, designed with the same characteristics as the WRC model.
- Smooth coverage within a wide pressure range.
- Steady 110° jet angle as pressure changes, from 1 bar.
- They reduce drift at 1 - 1.5 bar and ensure a good coverage starting from just 1.5 - 2 bar.
- Easy maintenance.
- Quick fitting.
- **Seal included (code 402 200.040).**

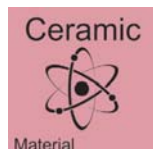
- Fast Cap es un cabezal de acople rápido con boquilla de cerámica incorporada que tiene las mismas características del modelo WRC.
- Cobertura constante en un amplio rango de presiones.
- Ángulo constante de 110° al variar la presión ya desde 1 bar.
- Reduce la deriva con presiones de 1 - 1,5 bar y garantiza una excelente cobertura a 1,5 - 2 bar.
- Fácil mantenimiento.
- Montaje rápido.
- **Junta (código 402 200.040) incluida.**



Spraying angle



Treatment



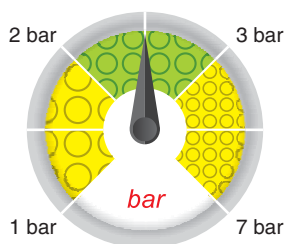
Material



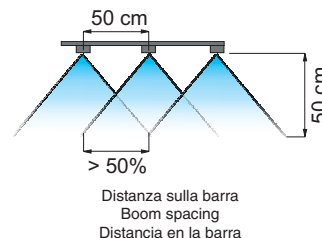
Colour coding



Blister pack



Copertura  
Spray coverage  
Cobertura



Distanza sulla barra  
Boom spacing  
Distancia en la barra

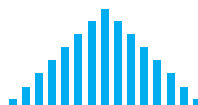
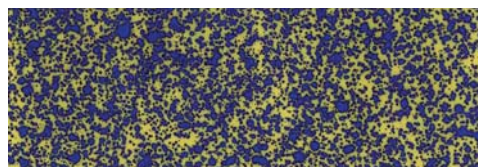


Diagramma di distribuzione ugello singolo  
Single nozzle distribution pattern  
Diagrama de distribución boquilla individual



Diagramma di distribuzione su barra  
Boom distribution pattern  
Diagrama de distribución en la barra



Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco

| COD.<br>CODE<br>CÓD. | <br>bar | <br>drop | <br>l/min | l/ha (spazio tra gli ugelli: 50 cm)<br>l/ha (nozzle spacing: 50 cm)<br>l/ha (espacio entre las boquillas: 50 cm) |        |        |         |         |         |         |         |         |         |
|----------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
|                      |                                                                                          |                                                                                           |                                                                                            | 4 km/h                                                                                                           | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h | 25 km/h |
|                      |                                                                                          |                                                                                           |                                                                                            |                                                                                                                  |        |        |         |         |         |         |         |         |         |
| FC110015             | 1                                                                                        | F                                                                                         | 0.35                                                                                       | 104                                                                                                              | 69     | 52     | 42      | 35      | 30      | 26      | 23      | 21      | 17      |
|                      | 2                                                                                        | F                                                                                         | 0.49                                                                                       | 147                                                                                                              | 98     | 73     | 59      | 49      | 42      | 37      | 33      | 29      | 24      |
|                      | 3                                                                                        | F                                                                                         | 0.60                                                                                       | 180                                                                                                              | 120    | 90     | 72      | 60      | 51      | 45      | 40      | 36      | 29      |
|                      | 5                                                                                        | F                                                                                         | 0.77                                                                                       | 232                                                                                                              | 155    | 116    | 93      | 77      | 66      | 58      | 52      | 46      | 37      |
|                      | 7                                                                                        | VF                                                                                        | 0.92                                                                                       | 275                                                                                                              | 183    | 137    | 110     | 92      | 79      | 69      | 61      | 55      | 44      |
| FC11002              | 1                                                                                        | F                                                                                         | 0.46                                                                                       | 139                                                                                                              | 92     | 69     | 55      | 46      | 40      | 35      | 31      | 28      | 22      |
|                      | 2                                                                                        | F                                                                                         | 0.65                                                                                       | 196                                                                                                              | 131    | 98     | 78      | 65      | 56      | 49      | 44      | 39      | 31      |
|                      | 3                                                                                        | F                                                                                         | 0.80                                                                                       | 240                                                                                                              | 160    | 120    | 96      | 80      | 69      | 60      | 53      | 48      | 38      |
|                      | 5                                                                                        | F                                                                                         | 1.03                                                                                       | 310                                                                                                              | 207    | 155    | 124     | 103     | 89      | 77      | 69      | 62      | 50      |
|                      | 7                                                                                        | F                                                                                         | 1.22                                                                                       | 367                                                                                                              | 244    | 183    | 147     | 122     | 105     | 92      | 81      | 73      | 59      |
| FC110025             | 1                                                                                        | M                                                                                         | 0.58                                                                                       | 173                                                                                                              | 115    | 87     | 69      | 58      | 49      | 43      | 38      | 35      | 28      |
|                      | 2                                                                                        | F                                                                                         | 0.82                                                                                       | 245                                                                                                              | 163    | 122    | 98      | 82      | 70      | 61      | 54      | 49      | 39      |
|                      | 3                                                                                        | F                                                                                         | 1.00                                                                                       | 300                                                                                                              | 200    | 150    | 120     | 100     | 86      | 75      | 67      | 60      | 48      |
|                      | 5                                                                                        | F                                                                                         | 1.29                                                                                       | 387                                                                                                              | 258    | 194    | 155     | 129     | 111     | 97      | 86      | 77      | 62      |
|                      | 7                                                                                        | F                                                                                         | 1.53                                                                                       | 458                                                                                                              | 306    | 229    | 183     | 153     | 131     | 115     | 102     | 92      | 73      |
| FC11003              | 1                                                                                        | M                                                                                         | 0.69                                                                                       | 208                                                                                                              | 139    | 104    | 83      | 69      | 59      | 52      | 46      | 42      | 33      |
|                      | 2                                                                                        | F                                                                                         | 0.98                                                                                       | 294                                                                                                              | 196    | 147    | 118     | 98      | 84      | 73      | 65      | 59      | 47      |
|                      | 3                                                                                        | F                                                                                         | 1.20                                                                                       | 360                                                                                                              | 240    | 180    | 144     | 120     | 103     | 90      | 80      | 72      | 58      |
|                      | 5                                                                                        | F                                                                                         | 1.55                                                                                       | 465                                                                                                              | 310    | 232    | 186     | 155     | 133     | 116     | 103     | 93      | 74      |
|                      | 7                                                                                        | F                                                                                         | 1.83                                                                                       | 550                                                                                                              | 367    | 275    | 220     | 183     | 157     | 137     | 122     | 110     | 88      |
| FC11004              | 1                                                                                        | M                                                                                         | 0.92                                                                                       | 277                                                                                                              | 185    | 139    | 111     | 92      | 79      | 69      | 62      | 55      | 44      |
|                      | 2                                                                                        | M                                                                                         | 1.31                                                                                       | 392                                                                                                              | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 63      |
|                      | 3                                                                                        | F                                                                                         | 1.60                                                                                       | 480                                                                                                              | 320    | 240    | 192     | 160     | 137     | 120     | 107     | 96      | 77      |
|                      | 5                                                                                        | F                                                                                         | 2.07                                                                                       | 620                                                                                                              | 413    | 310    | 248     | 207     | 177     | 155     | 138     | 124     | 99      |
|                      | 7                                                                                        | F                                                                                         | 2.44                                                                                       | 733                                                                                                              | 489    | 367    | 293     | 244     | 209     | 183     | 163     | 147     | 117     |
| FC11005              | 1                                                                                        | M                                                                                         | 1.15                                                                                       | 346                                                                                                              | 231    | 173    | 139     | 115     | 99      | 87      | 77      | 69      | 55      |
|                      | 2                                                                                        | M                                                                                         | 1.63                                                                                       | 490                                                                                                              | 327    | 245    | 196     | 163     | 140     | 122     | 109     | 98      | 78      |
|                      | 3                                                                                        | F                                                                                         | 2.00                                                                                       | 600                                                                                                              | 400    | 300    | 240     | 200     | 171     | 150     | 133     | 120     | 96      |
|                      | 5                                                                                        | F                                                                                         | 2.58                                                                                       | 775                                                                                                              | 516    | 387    | 310     | 258     | 221     | 194     | 172     | 155     | 124     |
|                      | 7                                                                                        | F                                                                                         | 3.06                                                                                       | 917                                                                                                              | 611    | 458    | 367     | 306     | 262     | 229     | 204     | 183     | 147     |
| FC11006              | 1                                                                                        | M                                                                                         | 1.39                                                                                       | 416                                                                                                              | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 67      |
|                      | 2                                                                                        | M                                                                                         | 1.96                                                                                       | 588                                                                                                              | 392    | 294    | 235     | 196     | 168     | 147     | 131     | 118     | 94      |
|                      | 3                                                                                        | M                                                                                         | 2.40                                                                                       | 720                                                                                                              | 480    | 360    | 288     | 240     | 206     | 180     | 160     | 144     | 115     |
|                      | 5                                                                                        | M                                                                                         | 3.10                                                                                       | 930                                                                                                              | 620    | 465    | 372     | 310     | 266     | 232     | 207     | 186     | 149     |
|                      | 7                                                                                        | M                                                                                         | 3.67                                                                                       | 1.100                                                                                                            | 733    | 550    | 440     | 367     | 314     | 275     | 244     | 220     | 176     |
| FC11008              | 1                                                                                        | C                                                                                         | 1.85                                                                                       | 554                                                                                                              | 370    | 277    | 222     | 185     | 158     | 139     | 123     | 111     | 89      |
|                      | 2                                                                                        | M                                                                                         | 2.61                                                                                       | 784                                                                                                              | 523    | 392    | 314     | 261     | 224     | 196     | 174     | 157     | 125     |
|                      | 3                                                                                        | M                                                                                         | 3.20                                                                                       | 960                                                                                                              | 640    | 480    | 384     | 320     | 274     | 240     | 213     | 192     | 154     |
|                      | 5                                                                                        | M                                                                                         | 4.13                                                                                       | 1.239                                                                                                            | 826    | 620    | 496     | 413     | 354     | 310     | 275     | 248     | 198     |
|                      | 7                                                                                        | M                                                                                         | 4.89                                                                                       | 1.466                                                                                                            | 978    | 733    | 587     | 489     | 419     | 367     | 326     | 293     | 235     |



**DIMENSIONE DELLE GOCCE**  
**DROP SIZE RATING**  
**DIMENSIONES DE LAS GOTAS**

|    |                               |
|----|-------------------------------|
| VF | Molto fine-Very fine-Muy fina |
| F  | Fine-Fine-Fina                |
| M  | Media-Medium-Media            |
| C  | Grossa-Coarse-Gruesa          |

Classificazione in accordo con lo  
standard ASABE S572.3 e la norma  
ISO25358

Classification according to ASABE  
S572.3 and ISO25358

Clasificación según ASABE S572.3 e  
ISO25358



## DERIVA

La deriva è un fenomeno causato solitamente dal vento che porta alla dispersione di una parte del prodotto fitosanitario nell'ambiente circostante, causandone l'inquinamento.

Questa problematica, oggi molto sentita, grazie all'attenzione rivolta alla tutela dell'ambiente, ha portato i produttori di ugelli ad intraprendere una ricerca che potesse in parte limitarla.

Alcune prove sperimentali condotte dal DISAFA di Torino, in vigneto e in frutteto, hanno consentito di verificare come il fenomeno della deriva sia da tenere in seria considerazione. Sono stati infatti riscontrati valori di deriva anche del 16% del prodotto chimico distribuito, ad una distanza di tre metri dall'area trattata.

Tenere sotto controllo la deriva significa contribuire alla riduzione dell'inquinamento dell'aria, salvaguardare le risorse d'acqua, la salute e la sicurezza della popolazione, del bestiame e dei volatili, migliorare la qualità dei trattamenti con conseguente aumento del raccolto e diminuzione dei costi di produzione.

## DRIFT

Drift is usually caused by wind action, which introduces a certain amount of pesticide into the environment causing pollution.

Today this is a significant problem due to increased environmental awareness. Therefore many nozzle manufacturers are searching a solution to limit this problem.

Some experiments made by DISAFA in Torino in vineyards and orchards have shown that drift plays a major role. Experiments evidenced a 16% drift percentage when spraying a chemical product just three meters away from the target area.

A controlled drift helps reducing air pollution, safeguarding water resources and health and safety of human beings, livestock and birds, and improving spraying quality, resulting in increased crop growth and lowered production costs.

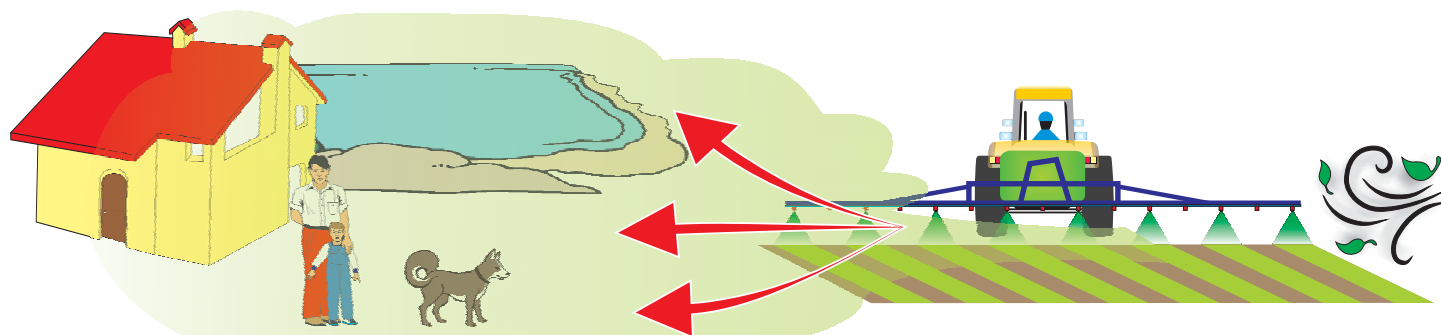
## DERIVA

La deriva es un fenómeno causado generalmente por el viento que dispersa una parte del producto fitosanitario en el ambiente circundante, causando su contaminación.

Esta problemática, hoy muy frecuente, gracias a la atención puesta en la tutela del medio ambiente, ha llevado a los fabricantes de boquillas a realizar una investigación que en parte pudiera limitarla.

Algunas pruebas experimentales realizadas por el DISAFA de Turín, en viñas y en plantaciones frutales, han permitido comprobar que el fenómeno de la deriva se deba considerar seriamente. Se han detectado en realidad valores de deriva también del 16% del producto químico distribuido, a una distancia de sólo tres metros del área tratada.

Mantener controlada la deriva significa contribuir a la reducir la contaminación del aire, proteger los recursos de agua, la salud y la seguridad de la población, del ganado y de las aves, mejorar la calidad de los tratamientos con consecuente aumento de la cosecha y disminución de los costes de producción.



*Rischi della deriva*

*Drift risks*

*Riesgos de la deriva*



*Effetti della deriva*

*Consequences of drift*

*Efectos de la deriva*

INTRODUZIONE INTRODUCTION INTRODUCCIÓN

PRINCIPALI FATTORI CHE CAUSANO  
L'EFFETTO DERIVA

- dimensione delle gocce
- condizioni meteorologiche
- altezza di lavoro
- velocità di avanzamento
- caratteristiche del prodotto fitosanitario

MAIN FACTORS CAUSING DRIFT

- drop size
- weather conditions
- operating height
- working speed
- pesticide specifications

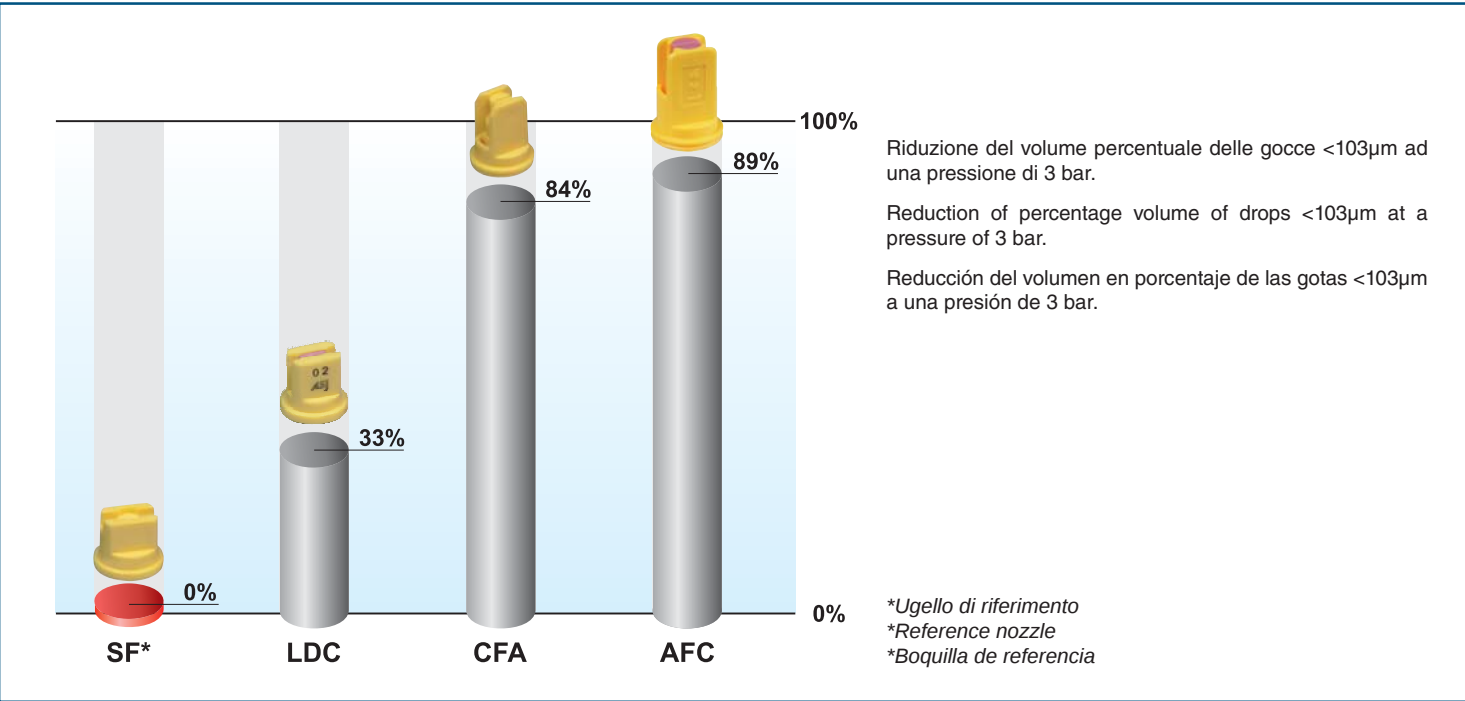
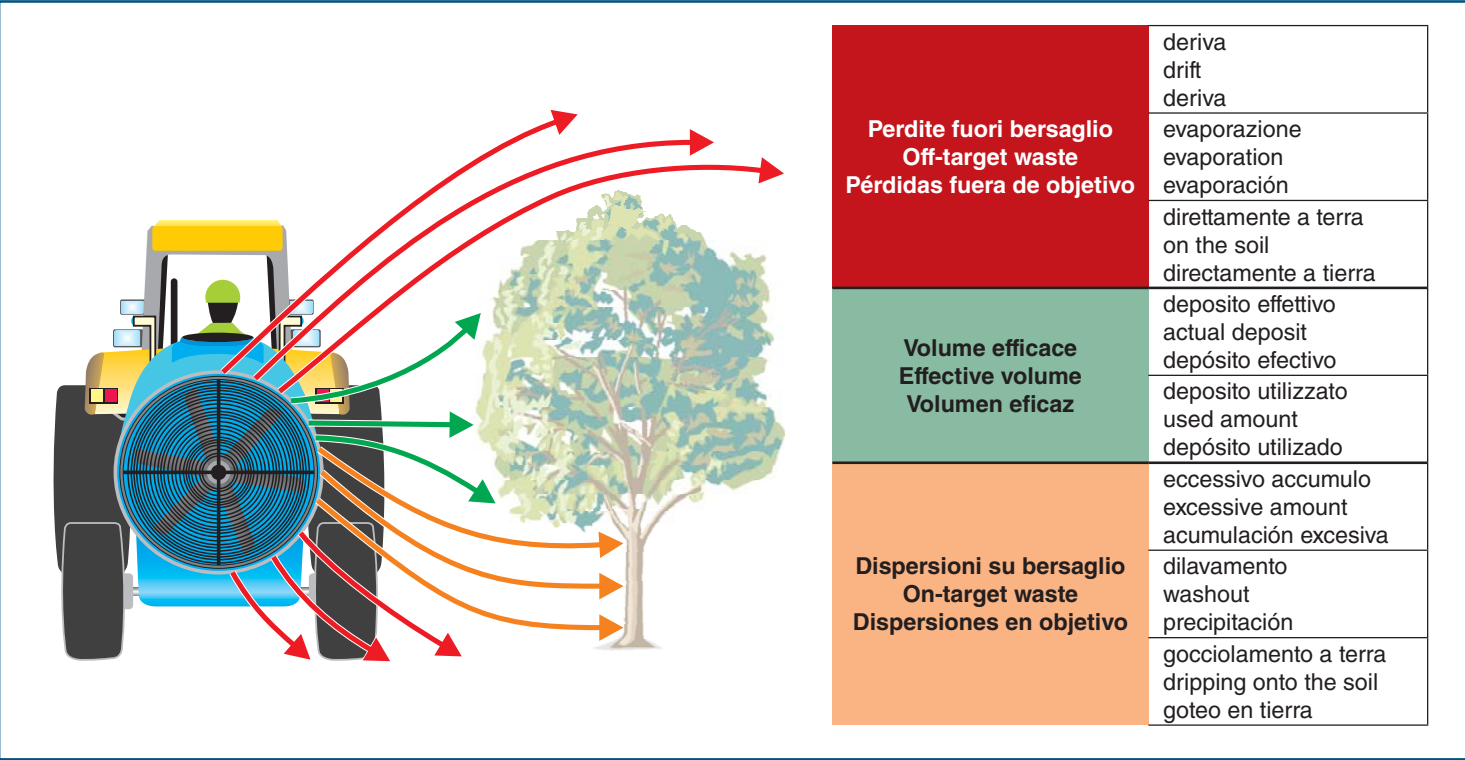
PRINCIPALES FACTORES QUE  
CAUSAN EL EFECTO DERIVA

- dimensión de las gotas
- condiciones meteorológicas
- altura de trabajo
- velocidad de avance
- características del producto fitosanitario

VOLUME IRRORATO

SPRAYED VOLUME

VOLUMEN ROCIADO



## DIMENSIONE DELLE GOCCE

È il fattore che più influenza il fenomeno della deriva. L'unità di misura delle gocce è il micron ( $\mu\text{m}$ ), che corrisponde ad un millesimo di millimetro. Come riferimento si può pensare alla dimensione di un capello umano (circa 100  $\mu\text{m}$ ).

In generale, più a lungo le gocce rimangono sospese nell'aria, maggiore è la possibilità che vengano trasportate dal vento lontano dal bersaglio. Le gocce fini producono una copertura eccellente, ma sono soggette a deriva a causa del loro ridotto peso; impiegano, infatti, molto tempo per cadere a terra e possono percorrere lunghe distanze trasportate dal vento. In linea teorica, una goccia rilasciata da un'altezza di tre metri con una lieve brezza (vento 1,3m/s, 20° C e UR 80%) compie un tragitto di 3 m se ha un diametro di 200  $\mu\text{m}$  e 130 km se ha un diametro di 1  $\mu\text{m}$ !

Le gocce al di sotto dei 50  $\mu\text{m}$  di diametro andrebbero sempre evitate perché rimangono sospese nell'aria per periodi anche lunghi o addirittura fino a quando evaporano, senza possibilità di controllo. In linea di massima la dimensione delle gocce non dovrebbe essere inferiore ai 200  $\mu\text{m}$ , attestandosi alle medie di 200-300  $\mu\text{m}$  di diametro.

## DROP SIZE

Factor with a major impact on drift. Drop size is expressed in micron ( $\mu\text{m}$ ), that is a thousandth of millimeter.

As a reference a human hair can be used as it measures about 100  $\mu\text{m}$ .

Generally speaking, the longer drops fly in the air the higher the possibility they are driven off the target by the wind. Small droplets offer a good coverage but are prone to drift as they are very light. As a matter of fact, they fly much longer and can be driven for long distances by the wind. Theoretically a drop released from three meters under breezy conditions (wind 1.3 m/s, 20 °C and RH 80%) is driven for 3 m if it has a diameter of 200  $\mu\text{m}$  and 130 km if it has a diameter of 1  $\mu\text{m}$ !

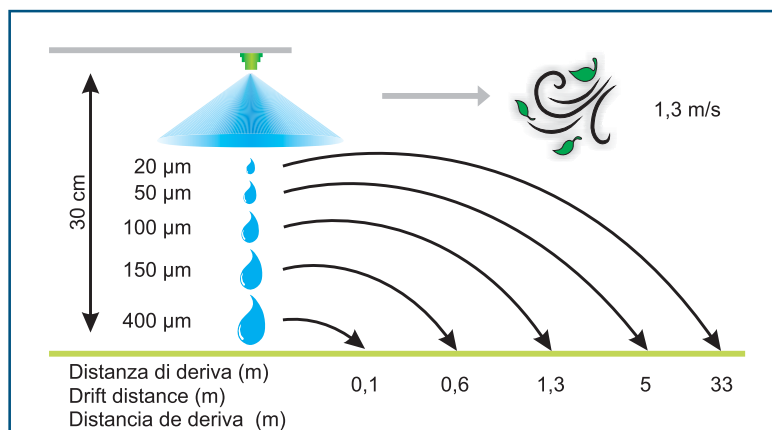
Drops under 50  $\mu\text{m}$  are therefore not recommended as they fly for a longer time, even until evaporated, losing any control. Generally speaking, drops should never be under 200  $\mu\text{m}$ . The use of drops with an average diameter of 200-300  $\mu\text{m}$  is recommended.

## DIMENSIÓN DE LAS GOTAS

Es el factor que más influye en el fenómeno de la deriva. La unidad de medida de las gotas es el micrón ( $\mu\text{m}$ ), que corresponde a una milésima de milímetro. Como referencia se puede pensar en el tamaño de un cabello humano (aproximadamente 100  $\mu\text{m}$ ).

En general, mientras más tiempo las gotas permanecen suspendidas en el aire, mayor es la posibilidad de que sean transportadas por el viento lejos del objetivo. Las gotas finas producen una cobertura excelente, pero están sujetas a deriva debido a su reducido peso; en efecto, requieren mucho tiempo para caer al suelo y pueden recorrer largas distancias arrastradas por el viento. En línea teórica, una gota liberada desde una altura de tres metros con una leve brisa (viento 1,3m/s, 20° C y HR 80%) recorre un trayecto de 3 m si tiene un diámetro de 200  $\mu\text{m}$  y ¡130 km si tiene un diámetro de 1  $\mu\text{m}$ !

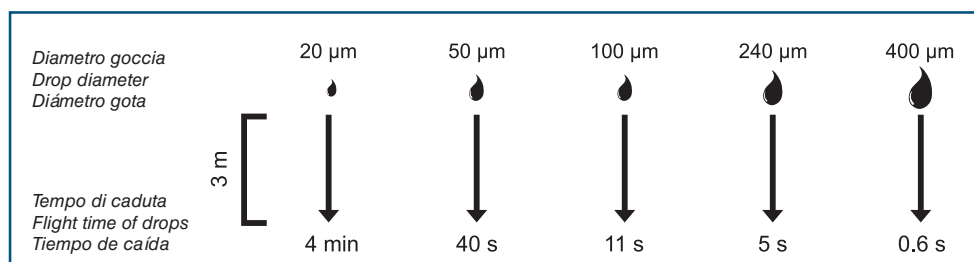
Las gotas por debajo de los 50  $\mu\text{m}$  de diámetro se deberían evitar siempre porque permanecen suspendidas en el aire por periodos incluso largos o inclusive hasta que se evaporan, sin posibilidad de control. En líneas generales la dimensión de las gotas no debería ser inferior a los 200  $\mu\text{m}$ , situándose a los promedios de 200-300  $\mu\text{m}$  de diámetro.



Entità della deriva in funzione della dimensione delle gocce

Drift value according to drop size

Entidad de la deriva en base a la dimensión de las gotas



Tempo di caduta a terra di una goccia in base al suo diametro

Flight time of a drop according to its diameter

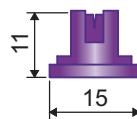
Tiempo de caída al suelo de una gota en base a su diámetro



Utilizzo  
Use  
Utilización



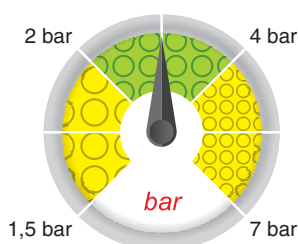
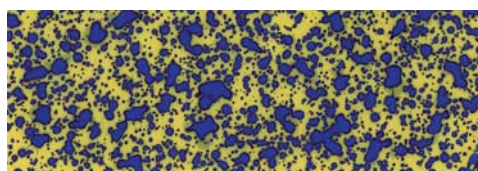
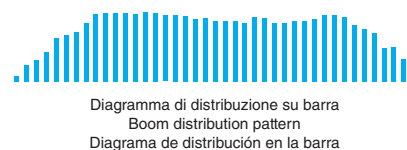
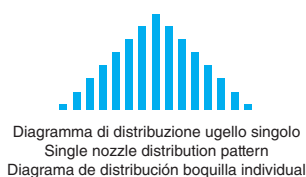
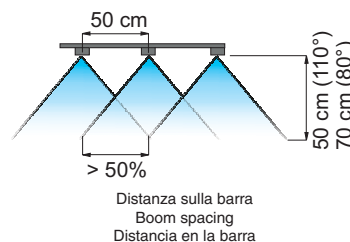
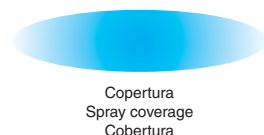
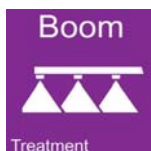
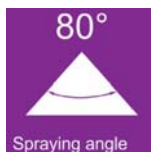
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



- Riducono la produzione di gocce fini, sensibili al vento, rispetto ai modelli Standard Flat Fan.
- Diminuiscono notevolmente l'effetto deriva in presenza di vento.
- Contribuiscono alla riduzione dell'impatto ambientale diminuendo la percentuale in volume di gocce esterne all'area da trattare e quindi la contaminazione per effetto deriva.
- Stampato in Delrin®, ad alta stabilità chimica, che conferisce ottime caratteristiche di durata.

- They reduce the production of small drops which are more sensitive to wind movement compared to the Standard Flat Fan models.
- They considerably reduce drift in windy conditions.
- They help reducing environmental impact by decreasing the percentage volume of driftable droplets, minimising off-target spray contamination.
- Made of molded Delrin®, a polymer ensuring high chemical stability and an exceptionally long useful life.

- Reducen la producción de gotas finas, sensibles al viento, con respecto a los modelos Standard Flat Fan.
- Disminuyen ampliamente el efecto deriva en presencia de viento.
- Contribuyen en la reducción del impacto ambiental disminuyendo el porcentaje en volumen de gotas fuera del área a tratar y como consecuencia también la contaminación por el efecto de la deriva.
- Moldeado en Delrin®, material con alta estabilidad química, que otorga excepcionales características de duración.



COD.  
LDKEY



Chiave per apertura ugelli LD  
Wrench for LD nozzle opening  
Llave de apertura boquillas LD

| COD. 110°<br>CODE 110°<br>CÓD. 110° | <br>bar | <br>drop | <br>l/min | l/ha (spazio tra gli ugelli: 50 cm)<br>l/ha (nozzle spacing: 50 cm)<br>l/ha (espacio entre las boquillas: 50 cm) |        |        |         |         |         |         |         |         |         | <br>drop | COD. 80°<br>CODE 80°<br>CÓD. 80° |
|-------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------------------------------------------------------------------------------------------|----------------------------------|
|                                     |                                                                                          |                                                                                           |                                                                                            | 4 km/h                                                                                                           | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h | 25 km/h |                                                                                             |                                  |
| LD11001                             | 1.5                                                                                      | F                                                                                         | 0.28                                                                                       | 85                                                                                                               | 57     | 42     | 34      | 28      | 24      | 21      | 19      | 17      | 14      | F                                                                                           | LD08001                          |
|                                     | 3                                                                                        | F                                                                                         | 0.40                                                                                       | 120                                                                                                              | 80     | 60     | 48      | 40      | 34      | 30      | 27      | 24      | 19      | F                                                                                           |                                  |
|                                     | 4                                                                                        | F                                                                                         | 0.46                                                                                       | 139                                                                                                              | 92     | 69     | 55      | 46      | 40      | 35      | 31      | 28      | 22      | F                                                                                           |                                  |
|                                     | 5                                                                                        | VF                                                                                        | 0.52                                                                                       | 155                                                                                                              | 103    | 77     | 62      | 52      | 44      | 39      | 34      | 31      | 25      | F                                                                                           |                                  |
|                                     | 7                                                                                        | VF                                                                                        | 0.61                                                                                       | 183                                                                                                              | 122    | 92     | 73      | 61      | 52      | 46      | 41      | 37      | 29      | F                                                                                           |                                  |
| LD110015                            | 1.5                                                                                      | F                                                                                         | 0.42                                                                                       | 127                                                                                                              | 85     | 64     | 51      | 42      | 36      | 32      | 28      | 25      | 20      | F                                                                                           | LD080015                         |
|                                     | 3                                                                                        | F                                                                                         | 0.60                                                                                       | 180                                                                                                              | 120    | 90     | 72      | 60      | 51      | 45      | 40      | 36      | 29      | F                                                                                           |                                  |
|                                     | 4                                                                                        | F                                                                                         | 0.69                                                                                       | 208                                                                                                              | 139    | 104    | 83      | 69      | 59      | 52      | 46      | 42      | 33      | F                                                                                           |                                  |
|                                     | 5                                                                                        | F                                                                                         | 0.77                                                                                       | 232                                                                                                              | 155    | 116    | 93      | 77      | 66      | 58      | 52      | 46      | 37      | F                                                                                           |                                  |
|                                     | 7                                                                                        | F                                                                                         | 0.92                                                                                       | 275                                                                                                              | 183    | 137    | 110     | 92      | 79      | 69      | 61      | 55      | 44      | F                                                                                           |                                  |
| LD11002                             | 1.5                                                                                      | M                                                                                         | 0.57                                                                                       | 170                                                                                                              | 113    | 85     | 68      | 57      | 48      | 42      | 38      | 34      | 27      | M                                                                                           | LD08002                          |
|                                     | 3                                                                                        | F                                                                                         | 0.80                                                                                       | 240                                                                                                              | 160    | 120    | 96      | 80      | 69      | 60      | 53      | 48      | 38      | F                                                                                           |                                  |
|                                     | 4                                                                                        | F                                                                                         | 0.92                                                                                       | 277                                                                                                              | 185    | 139    | 111     | 92      | 79      | 69      | 62      | 55      | 44      | F                                                                                           |                                  |
|                                     | 5                                                                                        | F                                                                                         | 1.03                                                                                       | 310                                                                                                              | 207    | 155    | 124     | 103     | 89      | 77      | 69      | 62      | 50      | F                                                                                           |                                  |
|                                     | 7                                                                                        | F                                                                                         | 1.22                                                                                       | 367                                                                                                              | 244    | 183    | 147     | 122     | 105     | 92      | 81      | 73      | 59      | F                                                                                           |                                  |
| LD110025                            | 1.5                                                                                      | M                                                                                         | 0.71                                                                                       | 212                                                                                                              | 141    | 106    | 85      | 71      | 61      | 53      | 47      | 42      | 34      | ---                                                                                         | NA                               |
|                                     | 3                                                                                        | M                                                                                         | 1.00                                                                                       | 300                                                                                                              | 200    | 150    | 120     | 100     | 86      | 75      | 67      | 60      | 48      |                                                                                             |                                  |
|                                     | 4                                                                                        | M                                                                                         | 1.15                                                                                       | 346                                                                                                              | 231    | 173    | 139     | 115     | 99      | 87      | 77      | 69      | 55      |                                                                                             |                                  |
|                                     | 5                                                                                        | M                                                                                         | 1.29                                                                                       | 387                                                                                                              | 258    | 194    | 155     | 129     | 111     | 97      | 86      | 77      | 62      |                                                                                             |                                  |
|                                     | 7                                                                                        | M                                                                                         | 1.53                                                                                       | 458                                                                                                              | 306    | 229    | 183     | 153     | 131     | 115     | 102     | 92      | 73      |                                                                                             |                                  |
| LD11003                             | 1.5                                                                                      | M                                                                                         | 0.85                                                                                       | 255                                                                                                              | 170    | 127    | 102     | 85      | 73      | 64      | 57      | 51      | 41      | M                                                                                           | LD08003                          |
|                                     | 3                                                                                        | M                                                                                         | 1.20                                                                                       | 360                                                                                                              | 240    | 180    | 144     | 120     | 103     | 90      | 80      | 72      | 58      | M                                                                                           |                                  |
|                                     | 4                                                                                        | M                                                                                         | 1.39                                                                                       | 416                                                                                                              | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 67      | M                                                                                           |                                  |
|                                     | 5                                                                                        | M                                                                                         | 1.55                                                                                       | 465                                                                                                              | 310    | 232    | 186     | 155     | 133     | 116     | 103     | 93      | 74      | M                                                                                           |                                  |
|                                     | 7                                                                                        | M                                                                                         | 1.83                                                                                       | 550                                                                                                              | 367    | 275    | 220     | 183     | 157     | 137     | 122     | 110     | 88      | M                                                                                           |                                  |
| LD11004                             | 1.5                                                                                      | M                                                                                         | 1.13                                                                                       | 339                                                                                                              | 226    | 170    | 136     | 113     | 97      | 85      | 75      | 68      | 54      | M                                                                                           | LD08004                          |
|                                     | 3                                                                                        | M                                                                                         | 1.60                                                                                       | 480                                                                                                              | 320    | 240    | 192     | 160     | 137     | 120     | 107     | 96      | 77      | M                                                                                           |                                  |
|                                     | 4                                                                                        | M                                                                                         | 1.85                                                                                       | 554                                                                                                              | 370    | 277    | 222     | 185     | 158     | 139     | 123     | 111     | 89      | M                                                                                           |                                  |
|                                     | 5                                                                                        | M                                                                                         | 2.07                                                                                       | 620                                                                                                              | 413    | 310    | 248     | 207     | 177     | 155     | 138     | 124     | 99      | M                                                                                           |                                  |
|                                     | 7                                                                                        | M                                                                                         | 2.44                                                                                       | 733                                                                                                              | 489    | 367    | 293     | 244     | 209     | 183     | 163     | 147     | 117     | M                                                                                           |                                  |
| LD11005                             | 1.5                                                                                      | C                                                                                         | 1.41                                                                                       | 424                                                                                                              | 283    | 212    | 170     | 141     | 121     | 106     | 94      | 85      | 68      | C                                                                                           | LD08005                          |
|                                     | 3                                                                                        | C                                                                                         | 2.00                                                                                       | 600                                                                                                              | 400    | 300    | 240     | 200     | 171     | 150     | 133     | 120     | 96      | C                                                                                           |                                  |
|                                     | 4                                                                                        | M                                                                                         | 2.31                                                                                       | 693                                                                                                              | 462    | 346    | 277     | 231     | 198     | 173     | 154     | 139     | 111     | C                                                                                           |                                  |
|                                     | 5                                                                                        | M                                                                                         | 2.58                                                                                       | 775                                                                                                              | 516    | 387    | 310     | 258     | 221     | 194     | 172     | 155     | 124     | C                                                                                           |                                  |
|                                     | 7                                                                                        | M                                                                                         | 3.06                                                                                       | 917                                                                                                              | 611    | 458    | 367     | 306     | 262     | 229     | 204     | 183     | 147     | M                                                                                           |                                  |

|                                                                                     |                                                                                             |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|  | <b>DIMENSIONE DELLE GOCCE</b><br><b>DROP SIZE RATING</b><br><b>DIMENSIONES DE LAS GOTAS</b> |
| <b>VF</b>                                                                           | Molto fine-Very fine-Muy fina                                                               |
| <b>F</b>                                                                            | Fine-Fine-Fina                                                                              |
| <b>M</b>                                                                            | Media-Medium-Media                                                                          |
| <b>C</b>                                                                            | Grossa-Coarse-Gruesa                                                                        |

Classificazione in accordo con lo  
standard ASABE S572.3 e la norma  
ISO25358

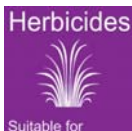
Classification according to ASABE  
S572.3 and ISO25358

Clasificación según ASABE S572.3 e  
ISO25358

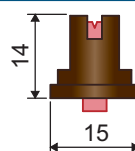




**Utilizzo  
Use  
Utilización**



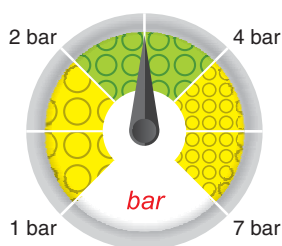
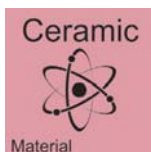
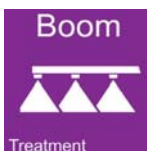
**Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)**



- Riducono la produzione di gocce fini, sensibili al vento, rispetto ai modelli Standard Flat Fan.
- Diminuiscono notevolmente l'effetto deriva in presenza di vento.
- Contribuiscono alla riduzione dell'impatto ambientale diminuendo la percentuale in volume di gocce esterne all'area da trattare e quindi la contaminazione per effetto deriva.
- Il corpo esterno stampato in Delrin®, unito all'inserto in ceramica, conferisce eccezionali caratteristiche di durata.
- Certificato ENAMA ed ENTAM.

- They reduce the production of small drops which are more sensitive to wind movement compared to the Standard Flat Fan models.
- They considerably reduce drift in windy conditions.
- They help reducing environmental impact by decreasing the percentage volume of driftable droplets, minimising off-target spray contamination.
- Their Delrin®-molded outer body, together with their ceramic insert, ensures an exceptionally long useful life.
- ENTAM and ENAMA certified.

- Reducen la producción de gotas finas, sensibles al viento, con respecto a los modelos Standard Flat Fan.
- Disminuyen ampliamente el efecto deriva en presencia de viento.
- Contribuyen en la reducción del impacto ambiental disminuyendo el porcentaje en volumen de gotas fuera del área a tratar y como consecuencia también la contaminación por el efecto de la deriva.
- El cuerpo exterior moldeado en Delrin®, junto al inserto de cerámica, le otorga excepcionales características de durabilidad.
- Certificado ENAMA y ENTAM.



Copertura  
Spray coverage  
Cobertura

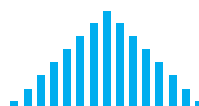
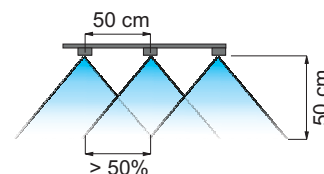


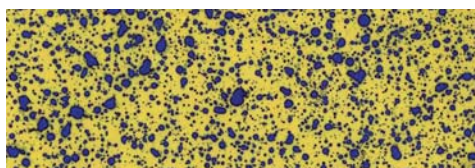
Diagramma di distribuzione ugello singolo  
Single nozzle distribution pattern  
Diagrama de distribución boquilla individual



Distanza sulla barra  
Boom spacing  
Distancia en la barra



Diagramma di distribuzione su barra  
Boom distribution pattern  
Diagrama de distribución en la barra



Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco

| COD.<br>CODE<br>CÓD. | <br>bar | <br>drop | <br>l/min | l/ha (spazio tra gli ugelli: 50 cm)<br>l/ha (nozzle spacing: 50 cm)<br>l/ha (espacio entre las boquillas: 50 cm) |        |        |         |         |         |         |         |         |         |
|----------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
|                      |                                                                                          |                                                                                           |                                                                                            | 4 km/h                                                                                                           | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h | 25 km/h |
| LDC11001             | 1                                                                                        | M                                                                                         | 0.23                                                                                       | 69                                                                                                               | 46     | 35     | 28      | 23      | 20      | 17      | 15      | 14      | 11      |
|                      | 3                                                                                        | F                                                                                         | 0.40                                                                                       | 120                                                                                                              | 80     | 60     | 48      | 40      | 34      | 30      | 27      | 24      | 19      |
|                      | 4                                                                                        | F                                                                                         | 0.46                                                                                       | 139                                                                                                              | 92     | 69     | 55      | 46      | 40      | 35      | 31      | 28      | 22      |
|                      | 5                                                                                        | F                                                                                         | 0.52                                                                                       | 155                                                                                                              | 103    | 77     | 62      | 52      | 44      | 39      | 34      | 31      | 25      |
|                      | 7                                                                                        | F                                                                                         | 0.61                                                                                       | 183                                                                                                              | 122    | 92     | 73      | 61      | 52      | 46      | 41      | 37      | 29      |
| LDC110015            | 1                                                                                        | M                                                                                         | 0.35                                                                                       | 104                                                                                                              | 69     | 52     | 42      | 35      | 30      | 26      | 23      | 21      | 17      |
|                      | 3                                                                                        | F                                                                                         | 0.60                                                                                       | 180                                                                                                              | 120    | 90     | 72      | 60      | 51      | 45      | 40      | 36      | 29      |
|                      | 4                                                                                        | F                                                                                         | 0.69                                                                                       | 208                                                                                                              | 139    | 104    | 83      | 69      | 59      | 52      | 46      | 42      | 33      |
|                      | 5                                                                                        | F                                                                                         | 0.77                                                                                       | 232                                                                                                              | 155    | 116    | 93      | 77      | 66      | 58      | 52      | 46      | 37      |
|                      | 7                                                                                        | F                                                                                         | 0.92                                                                                       | 275                                                                                                              | 183    | 137    | 110     | 92      | 79      | 69      | 61      | 55      | 44      |
| LDC11002             | 1                                                                                        | M                                                                                         | 0.46                                                                                       | 139                                                                                                              | 92     | 69     | 55      | 46      | 40      | 35      | 31      | 28      | 22      |
|                      | 3                                                                                        | F                                                                                         | 0.80                                                                                       | 240                                                                                                              | 160    | 120    | 96      | 80      | 69      | 60      | 53      | 48      | 38      |
|                      | 4                                                                                        | F                                                                                         | 0.92                                                                                       | 277                                                                                                              | 185    | 139    | 111     | 92      | 79      | 69      | 62      | 55      | 44      |
|                      | 5                                                                                        | F                                                                                         | 1.03                                                                                       | 310                                                                                                              | 207    | 155    | 124     | 103     | 89      | 77      | 69      | 62      | 50      |
|                      | 7                                                                                        | F                                                                                         | 1.22                                                                                       | 367                                                                                                              | 244    | 183    | 147     | 122     | 105     | 92      | 81      | 73      | 59      |
| LDC110025            | 1                                                                                        | M                                                                                         | 0.58                                                                                       | 173                                                                                                              | 115    | 87     | 69      | 58      | 49      | 43      | 38      | 35      | 28      |
|                      | 3                                                                                        | M                                                                                         | 1.00                                                                                       | 300                                                                                                              | 200    | 150    | 120     | 100     | 86      | 75      | 67      | 60      | 48      |
|                      | 4                                                                                        | M                                                                                         | 1.15                                                                                       | 346                                                                                                              | 231    | 173    | 139     | 115     | 99      | 87      | 77      | 69      | 55      |
|                      | 5                                                                                        | M                                                                                         | 1.29                                                                                       | 387                                                                                                              | 258    | 194    | 155     | 129     | 111     | 97      | 86      | 77      | 62      |
|                      | 7                                                                                        | F                                                                                         | 1.53                                                                                       | 458                                                                                                              | 306    | 229    | 183     | 153     | 131     | 115     | 102     | 92      | 73      |
| LDC11003             | 1                                                                                        | C                                                                                         | 0.69                                                                                       | 208                                                                                                              | 139    | 104    | 83      | 69      | 59      | 52      | 46      | 42      | 33      |
|                      | 3                                                                                        | M                                                                                         | 1.20                                                                                       | 360                                                                                                              | 240    | 180    | 144     | 120     | 103     | 90      | 80      | 72      | 58      |
|                      | 4                                                                                        | M                                                                                         | 1.39                                                                                       | 416                                                                                                              | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 67      |
|                      | 5                                                                                        | M                                                                                         | 1.55                                                                                       | 465                                                                                                              | 310    | 232    | 186     | 155     | 133     | 116     | 103     | 93      | 74      |
|                      | 7                                                                                        | M                                                                                         | 1.83                                                                                       | 550                                                                                                              | 367    | 275    | 220     | 183     | 157     | 137     | 122     | 110     | 88      |
| LDC11004             | 1                                                                                        | C                                                                                         | 0.92                                                                                       | 277                                                                                                              | 185    | 139    | 111     | 92      | 79      | 69      | 62      | 55      | 44      |
|                      | 3                                                                                        | M                                                                                         | 1.60                                                                                       | 480                                                                                                              | 320    | 240    | 192     | 160     | 137     | 120     | 107     | 96      | 77      |
|                      | 4                                                                                        | M                                                                                         | 1.85                                                                                       | 554                                                                                                              | 370    | 277    | 222     | 185     | 158     | 139     | 123     | 111     | 89      |
|                      | 5                                                                                        | M                                                                                         | 2.07                                                                                       | 620                                                                                                              | 413    | 310    | 248     | 207     | 177     | 155     | 138     | 124     | 99      |
|                      | 7                                                                                        | M                                                                                         | 2.44                                                                                       | 733                                                                                                              | 489    | 367    | 293     | 244     | 209     | 183     | 163     | 147     | 117     |
| LDC11005             | 1                                                                                        | XC                                                                                        | 1.15                                                                                       | 346                                                                                                              | 231    | 173    | 139     | 115     | 99      | 87      | 77      | 69      | 55      |
|                      | 3                                                                                        | C                                                                                         | 2.00                                                                                       | 600                                                                                                              | 400    | 300    | 240     | 200     | 171     | 150     | 133     | 120     | 96      |
|                      | 4                                                                                        | C                                                                                         | 2.31                                                                                       | 693                                                                                                              | 462    | 346    | 277     | 231     | 198     | 173     | 154     | 139     | 111     |
|                      | 5                                                                                        | C                                                                                         | 2.58                                                                                       | 775                                                                                                              | 516    | 387    | 310     | 258     | 221     | 194     | 172     | 155     | 124     |
|                      | 7                                                                                        | C                                                                                         | 3.06                                                                                       | 917                                                                                                              | 611    | 458    | 367     | 306     | 262     | 229     | 204     | 183     | 147     |
| LDC11006             | 1                                                                                        | XC                                                                                        | 1.39                                                                                       | 416                                                                                                              | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 67      |
|                      | 3                                                                                        | C                                                                                         | 2.40                                                                                       | 720                                                                                                              | 480    | 360    | 288     | 240     | 206     | 180     | 160     | 144     | 115     |
|                      | 4                                                                                        | C                                                                                         | 2.77                                                                                       | 831                                                                                                              | 554    | 416    | 333     | 277     | 238     | 208     | 185     | 166     | 133     |
|                      | 5                                                                                        | C                                                                                         | 3.10                                                                                       | 930                                                                                                              | 620    | 465    | 372     | 310     | 266     | 232     | 207     | 186     | 149     |
|                      | 7                                                                                        | C                                                                                         | 3.67                                                                                       | 1.100                                                                                                            | 733    | 550    | 440     | 367     | 314     | 275     | 244     | 220     | 176     |

|  | DIMENSIONE DELLE GOCCE<br>DROP SIZE RATING<br>DIMENSIONES DE LAS GOTAS |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| VF                                                                                  | Molto fine-Very fine-Muy fina                                          |
| F                                                                                   | Fine-Fine-Fina                                                         |
| M                                                                                   | Media-Medium-Media                                                     |
| C                                                                                   | Grossa-Coarse-Gruesa                                                   |
| XC                                                                                  | Estremamente grossa-Extremely coarse-Extremadamente gruesa             |

Classificazione in accordo con lo  
standard ASABE S572.3 e la norma  
ISO25358

Classification according to ASABE  
S572.3 and ISO25358

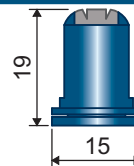
Clasificación según ASABE S572.3 e  
ISO25358



**Utilizzo  
Use  
Utilización**



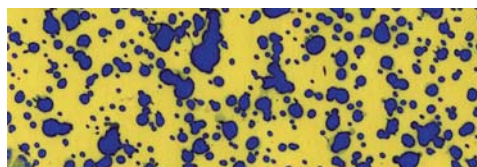
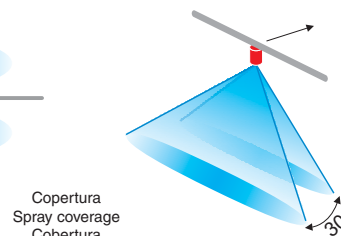
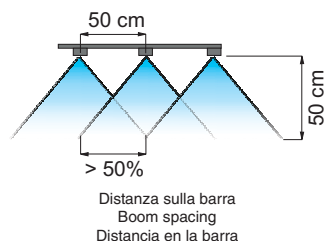
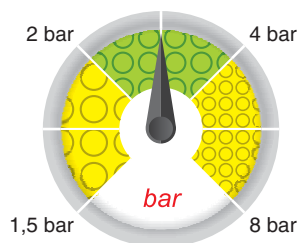
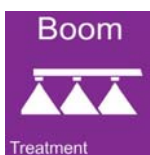
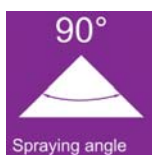
**Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)**



- Offrono una buona copertura, migliorando la penetrazione ed il deposito dei prodotti.
- Gli ugelli Twin Fan Low Drift hanno la stessa portata degli ugelli Twin Fan Standard, ma le goccioline più grandi garantiscono la riduzione della deriva.
- Ugello a doppia uscita in un solo corpo.
- Adatto per essere utilizzato su barre per trattamenti di patate, cipolle e cereali.
- La filtrazione dev'essere calcolata dividendo a metà quella di un ugello standard.
- Stampato in Delrin®, ad alta stabilità chimica, che conferisce ottime caratteristiche di durata.

- They ensure a good coverage and enhance product penetration and settling.
- Twin Fan Low Drift nozzles have the same rate as Twin Fan Standard nozzles but spray larger drops and therefore ensure reduced drift.
- Twin nozzles - two spraying points in one body.
- Suitable for boom spraying, especially onto potatoes, onions and grains.
- Filtration should be half the value of a standard nozzle.
- Made of molded Delrin®, a polymer ensuring high chemical stability and an exceptionally long useful life.

- Ofrecen una buena cobertura, mejorando la penetración y el depósito de los productos.
- Las boquillas Twin Fan Low Drift tienen el mismo caudal de las boquillas Twin Fan Standard, pero las gotas más grandes garantizan la reducción de la deriva.
- Boquilla de doble salida en un solo cuerpo.
- Adecuada para utilizar en barras para tratamientos de papas, cebollas y cereales.
- El filtrado se debe calcular dividiendo a la mitad el de una boquilla estándar.
- Moldeado en Delrin®, material con alta estabilidad química, que otorga excepcionales características de duración.



Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco

| COD.<br>CODE<br>CÓD. |  |  |  | l/ha (spazio tra gli ugelli: 50 cm)<br>l/ha (nozzle spacing: 50 cm)<br>l/ha (espacio entre las boquillas: 50 cm) |        |        |         |         |         |         |         |         |         |
|----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
|                      | bar                                                                               | drop                                                                              | l/min                                                                             | 4 km/h                                                                                                           | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h | 25 km/h |
| TFLD11002            | 1.5                                                                               | XC                                                                                | 0.57                                                                              | 170                                                                                                              | 113    | 85     | 68      | 57      | 48      | 42      | 38      | 34      | 27      |
|                      | 2                                                                                 | VC                                                                                | 0.65                                                                              | 196                                                                                                              | 131    | 98     | 78      | 65      | 56      | 49      | 44      | 39      | 31      |
|                      | 3                                                                                 | C                                                                                 | 0.80                                                                              | 240                                                                                                              | 160    | 120    | 96      | 80      | 69      | 60      | 53      | 48      | 38      |
|                      | 4                                                                                 | C                                                                                 | 0.92                                                                              | 277                                                                                                              | 185    | 139    | 111     | 92      | 79      | 69      | 62      | 55      | 44      |
|                      | 6                                                                                 | M                                                                                 | 1.13                                                                              | 339                                                                                                              | 226    | 170    | 136     | 113     | 97      | 85      | 75      | 68      | 54      |
| TFLD110025           | 1.5                                                                               | XC                                                                                | 0.71                                                                              | 212                                                                                                              | 141    | 106    | 85      | 71      | 61      | 53      | 47      | 42      | 34      |
|                      | 2                                                                                 | XC                                                                                | 0.82                                                                              | 245                                                                                                              | 163    | 122    | 98      | 82      | 70      | 61      | 54      | 49      | 39      |
|                      | 3                                                                                 | VC                                                                                | 1.00                                                                              | 300                                                                                                              | 200    | 150    | 120     | 100     | 86      | 75      | 67      | 60      | 48      |
|                      | 4                                                                                 | C                                                                                 | 1.15                                                                              | 346                                                                                                              | 231    | 173    | 139     | 115     | 99      | 87      | 77      | 69      | 55      |
|                      | 6                                                                                 | C                                                                                 | 1.41                                                                              | 424                                                                                                              | 283    | 212    | 170     | 141     | 121     | 106     | 94      | 85      | 68      |
| TFLD11003            | 1.5                                                                               | XC                                                                                | 0.85                                                                              | 255                                                                                                              | 170    | 127    | 102     | 85      | 73      | 64      | 57      | 51      | 41      |
|                      | 2                                                                                 | XC                                                                                | 0.98                                                                              | 294                                                                                                              | 196    | 147    | 118     | 98      | 84      | 73      | 65      | 59      | 47      |
|                      | 3                                                                                 | VC                                                                                | 1.20                                                                              | 360                                                                                                              | 240    | 180    | 144     | 120     | 103     | 90      | 80      | 72      | 58      |
|                      | 4                                                                                 | VC                                                                                | 1.39                                                                              | 416                                                                                                              | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 67      |
|                      | 6                                                                                 | C                                                                                 | 1.70                                                                              | 509                                                                                                              | 339    | 255    | 204     | 170     | 145     | 127     | 113     | 102     | 81      |
| TFLD11004            | 1.5                                                                               | XC                                                                                | 1.13                                                                              | 339                                                                                                              | 226    | 170    | 136     | 113     | 97      | 85      | 75      | 68      | 54      |
|                      | 2                                                                                 | XC                                                                                | 1.31                                                                              | 392                                                                                                              | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 63      |
|                      | 3                                                                                 | VC                                                                                | 1.60                                                                              | 480                                                                                                              | 320    | 240    | 192     | 160     | 137     | 120     | 107     | 96      | 77      |
|                      | 4                                                                                 | VC                                                                                | 1.85                                                                              | 554                                                                                                              | 370    | 277    | 222     | 185     | 158     | 139     | 123     | 111     | 89      |
|                      | 6                                                                                 | C                                                                                 | 2.26                                                                              | 679                                                                                                              | 453    | 339    | 272     | 226     | 194     | 170     | 151     | 136     | 109     |
| TFLD11005            | 1.5                                                                               | XC                                                                                | 1.41                                                                              | 424                                                                                                              | 283    | 212    | 170     | 141     | 121     | 106     | 94      | 85      | 68      |
|                      | 2                                                                                 | VC                                                                                | 1.63                                                                              | 490                                                                                                              | 327    | 245    | 196     | 163     | 140     | 122     | 109     | 98      | 78      |
|                      | 3                                                                                 | VC                                                                                | 2.00                                                                              | 600                                                                                                              | 400    | 300    | 240     | 200     | 171     | 150     | 133     | 120     | 96      |
|                      | 4                                                                                 | VC                                                                                | 2.31                                                                              | 693                                                                                                              | 462    | 346    | 277     | 231     | 198     | 173     | 154     | 139     | 111     |
|                      | 6                                                                                 | C                                                                                 | 2.83                                                                              | 849                                                                                                              | 566    | 424    | 339     | 283     | 242     | 212     | 189     | 170     | 136     |
|                      | 8                                                                                 | C                                                                                 | 3.27                                                                              | 980                                                                                                              | 653    | 490    | 392     | 327     | 280     | 245     | 218     | 196     | 157     |

|  | DIMENSIONE DELLE GOCCE<br>DROP SIZE RATING<br>DIMENSIONES DE LAS GOTAS |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| M                                                                                   | Media-Medium-Media                                                     |
| C                                                                                   | Grossa-Coarse-Gruesa                                                   |
| VC                                                                                  | Molto grossa-Very coarse-Muy gruesa                                    |
| XC                                                                                  | Estremamente grossa-Extremely coarse-Extremadamente gruesa             |

Classificazione in accordo con lo  
standard ASABE S572.3 e la norma  
ISO25358

Classification according to ASABE  
S572.3 and ISO25358

Clasificación según ASABE S572.3 e  
ISO25358

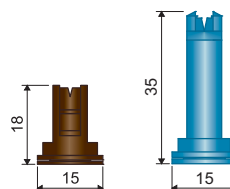




Utilizzo  
Use  
Utilización



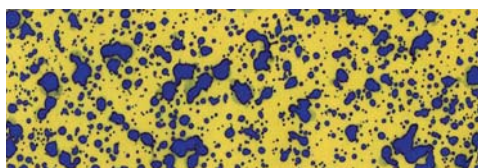
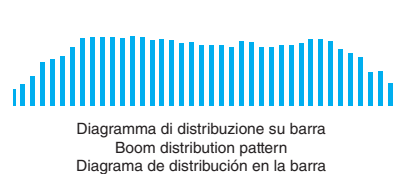
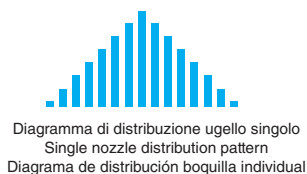
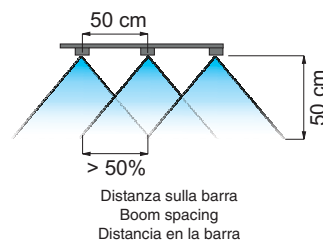
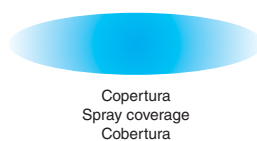
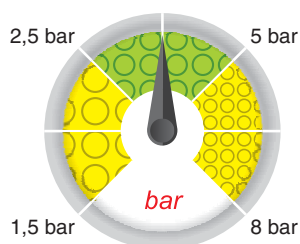
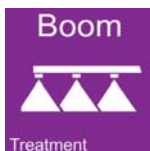
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



- Angolo di spruzzo di 110° (CFA) / 100° (SFA).
- Riduzione della deriva in presenza di vento fino all' 85%.
- Grosse gocce cariche di aria per assicurare una maggiore copertura della superficie fogliare.
- Permettono la sostituzione diretta degli ugelli di tipo Flat Fan.
- Completamente smontabile per una facile manutenzione.
- Stampato in Delrin®, ad alta stabilità chimica, che conferisce ottime caratteristiche di durata.
- Certificato ENTAM ed ZNT.

- 110° (CFA) / 100° (SFA) spray angle.
- Drift reduction in case of windy weather conditions up to 85%.
- Big drops containing a high amount of air ensuring larger coverage of leaf surfaces.
- They can directly replace Flat Fan nozzles.
- They can be fully removed for easier service.
- Made of molded Delrin®, a polymer ensuring high chemical stability and an exceptionally long useful life.
- ENTAM and ZNT certified

- Ángulo de salida de 110° (CFA) / 100° (SFA).
- Reducción de la deriva en presencia de viento hasta el 85%.
- Gruesas gotas cargadas de aire para asegurar una mayor cobertura de la superficie de las hojas.
- Permiten la sustitución directa de las boquillas de tipo Flat Fan.
- Completamente desmontable para un fácil mantenimiento.
- Moldeado en Delrin®, material con alta estabilidad química, que otorga excepcionales características de duración.
- Certificado ENTAM y ZNT.



| COD.<br>CODE<br>CÓD. | <br>bar | <br>drop | <br>l/min | l/ha (spazio tra gli ugelli: 50 cm)       |       |       |        |        |        |        |        |        |        |
|----------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
|                      |                                                                                          |                                                                                           |                                                                                            | l/ha (nozzle spacing: 50 cm)              |       |       |        |        |        |        |        |        |        |
|                      |                                                                                          |                                                                                           |                                                                                            | l/ha (espacio entre las boquillas: 50 cm) |       |       |        |        |        |        |        |        |        |
|                      |                                                                                          |                                                                                           |                                                                                            | 4km/h                                     | 6km/h | 8km/h | 10km/h | 12km/h | 14km/h | 16km/h | 18km/h | 20km/h | 25km/h |
| CFA11001             | 1.5                                                                                      | VC                                                                                        | 0.28                                                                                       | 85                                        | 57    | 42    | 34     | 28     | 24     | 21     | 19     | 17     | 14     |
|                      | 3                                                                                        | C                                                                                         | 0.40                                                                                       | 120                                       | 80    | 60    | 48     | 40     | 34     | 30     | 27     | 24     | 19     |
|                      | 5                                                                                        | M                                                                                         | 0.52                                                                                       | 155                                       | 103   | 77    | 62     | 52     | 44     | 39     | 34     | 31     | 25     |
|                      | 7                                                                                        | M                                                                                         | 0.61                                                                                       | 183                                       | 122   | 92    | 73     | 61     | 52     | 46     | 41     | 37     | 29     |
|                      | 8                                                                                        | M                                                                                         | 0.65                                                                                       | 196                                       | 131   | 98    | 78     | 65     | 56     | 49     | 44     | 39     | 31     |
| CFA110015            | 1.5                                                                                      | XC                                                                                        | 0.42                                                                                       | 127                                       | 85    | 64    | 51     | 42     | 36     | 32     | 28     | 25     | 20     |
|                      | 3                                                                                        | C                                                                                         | 0.60                                                                                       | 180                                       | 120   | 90    | 72     | 60     | 51     | 45     | 40     | 36     | 29     |
|                      | 5                                                                                        | C                                                                                         | 0.77                                                                                       | 232                                       | 155   | 116   | 93     | 77     | 66     | 58     | 52     | 46     | 37     |
|                      | 7                                                                                        | M                                                                                         | 0.92                                                                                       | 275                                       | 183   | 137   | 110    | 92     | 79     | 69     | 61     | 55     | 44     |
|                      | 8                                                                                        | M                                                                                         | 0.98                                                                                       | 294                                       | 196   | 147   | 118    | 98     | 84     | 73     | 65     | 59     | 47     |
| CFA11002             | 1.5                                                                                      | XC                                                                                        | 0.57                                                                                       | 170                                       | 113   | 85    | 68     | 57     | 48     | 42     | 38     | 34     | 27     |
|                      | 3                                                                                        | VC                                                                                        | 0.80                                                                                       | 240                                       | 160   | 120   | 96     | 80     | 69     | 60     | 53     | 48     | 38     |
|                      | 5                                                                                        | C                                                                                         | 1.03                                                                                       | 310                                       | 207   | 155   | 124    | 103    | 89     | 77     | 69     | 62     | 50     |
|                      | 7                                                                                        | C                                                                                         | 1.22                                                                                       | 367                                       | 244   | 183   | 147    | 122    | 105    | 92     | 81     | 73     | 59     |
|                      | 8                                                                                        | C                                                                                         | 1.31                                                                                       | 392                                       | 261   | 196   | 157    | 131    | 112    | 98     | 87     | 78     | 63     |
| CFA110025            | 1.5                                                                                      | XC                                                                                        | 0.71                                                                                       | 212                                       | 141   | 106   | 85     | 71     | 61     | 53     | 47     | 42     | 34     |
|                      | 3                                                                                        | VC                                                                                        | 1.00                                                                                       | 300                                       | 200   | 150   | 120    | 100    | 86     | 75     | 67     | 60     | 48     |
|                      | 5                                                                                        | C                                                                                         | 1.29                                                                                       | 387                                       | 258   | 194   | 155    | 129    | 111    | 97     | 86     | 77     | 62     |
|                      | 7                                                                                        | C                                                                                         | 1.53                                                                                       | 458                                       | 306   | 229   | 183    | 153    | 131    | 115    | 102    | 92     | 73     |
|                      | 8                                                                                        | C                                                                                         | 1.63                                                                                       | 490                                       | 327   | 245   | 196    | 163    | 140    | 122    | 109    | 98     | 78     |
| CFA11003             | 1.5                                                                                      | XC                                                                                        | 0.85                                                                                       | 255                                       | 170   | 127   | 102    | 85     | 73     | 64     | 57     | 51     | 41     |
|                      | 3                                                                                        | VC                                                                                        | 1.20                                                                                       | 360                                       | 240   | 180   | 144    | 120    | 103    | 90     | 80     | 72     | 58     |
|                      | 5                                                                                        | C                                                                                         | 1.55                                                                                       | 465                                       | 310   | 232   | 186    | 155    | 133    | 116    | 103    | 93     | 74     |
|                      | 7                                                                                        | C                                                                                         | 1.83                                                                                       | 550                                       | 367   | 275   | 220    | 183    | 157    | 137    | 122    | 110    | 88     |
|                      | 8                                                                                        | C                                                                                         | 1.96                                                                                       | 588                                       | 392   | 294   | 235    | 196    | 168    | 147    | 131    | 118    | 94     |
| CFA11004             | 1.5                                                                                      | XC                                                                                        | 1.13                                                                                       | 339                                       | 226   | 170   | 136    | 113    | 97     | 85     | 75     | 68     | 54     |
|                      | 3                                                                                        | VC                                                                                        | 1.60                                                                                       | 480                                       | 320   | 240   | 192    | 160    | 137    | 120    | 107    | 96     | 77     |
|                      | 5                                                                                        | C                                                                                         | 2.07                                                                                       | 620                                       | 413   | 310   | 248    | 207    | 177    | 155    | 138    | 124    | 99     |
|                      | 7                                                                                        | C                                                                                         | 2.44                                                                                       | 733                                       | 489   | 367   | 293    | 244    | 209    | 183    | 163    | 147    | 117    |
|                      | 8                                                                                        | C                                                                                         | 2.61                                                                                       | 784                                       | 523   | 392   | 314    | 261    | 224    | 196    | 174    | 157    | 125    |
| CFA11005             | 1.5                                                                                      | XC                                                                                        | 1.41                                                                                       | 424                                       | 283   | 212   | 170    | 141    | 121    | 106    | 94     | 85     | 68     |
|                      | 3                                                                                        | VC                                                                                        | 2.00                                                                                       | 600                                       | 400   | 300   | 240    | 200    | 171    | 150    | 133    | 120    | 96     |
|                      | 5                                                                                        | C                                                                                         | 2.58                                                                                       | 775                                       | 516   | 387   | 310    | 258    | 221    | 194    | 172    | 155    | 124    |
|                      | 7                                                                                        | C                                                                                         | 3.06                                                                                       | 917                                       | 611   | 458   | 367    | 306    | 262    | 229    | 204    | 183    | 147    |
|                      | 8                                                                                        | C                                                                                         | 3.27                                                                                       | 980                                       | 653   | 490   | 392    | 327    | 280    | 245    | 218    | 196    | 157    |
| CFA11006             | 1.5                                                                                      | XC                                                                                        | 1.70                                                                                       | 509                                       | 339   | 255   | 204    | 170    | 145    | 127    | 113    | 102    | 81     |
|                      | 3                                                                                        | C                                                                                         | 2.40                                                                                       | 720                                       | 480   | 360   | 288    | 240    | 206    | 180    | 160    | 144    | 115    |
|                      | 5                                                                                        | C                                                                                         | 3.10                                                                                       | 930                                       | 620   | 465   | 372    | 310    | 266    | 232    | 207    | 186    | 149    |
|                      | 7                                                                                        | C                                                                                         | 3.67                                                                                       | 1.100                                     | 733   | 550   | 440    | 367    | 314    | 275    | 244    | 220    | 176    |
|                      | 8                                                                                        | C                                                                                         | 3.92                                                                                       | 1.176                                     | 784   | 588   | 470    | 392    | 336    | 294    | 261    | 235    | 188    |
| CFA11008             | 1.5                                                                                      | XC                                                                                        | 2.26                                                                                       | 679                                       | 453   | 339   | 272    | 226    | 194    | 170    | 151    | 136    | 109    |
|                      | 3                                                                                        | VC                                                                                        | 3.20                                                                                       | 960                                       | 640   | 480   | 384    | 320    | 274    | 240    | 213    | 192    | 154    |
|                      | 5                                                                                        | C                                                                                         | 4.13                                                                                       | 1.239                                     | 826   | 620   | 496    | 413    | 354    | 310    | 275    | 248    | 198    |
|                      | 7                                                                                        | C                                                                                         | 4.89                                                                                       | 1.466                                     | 978   | 733   | 587    | 489    | 419    | 367    | 326    | 293    | 235    |
|                      | 8                                                                                        | C                                                                                         | 5.23                                                                                       | 1.568                                     | 1.045 | 784   | 627    | 523    | 448    | 392    | 348    | 314    | 251    |

## SFA STANDARD FAN AIR

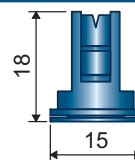
| COD.<br>CODE<br>CÓD. | <br>bar | <br>drop | <br>l/min | l/ha (spazio tra gli ugelli: 50 cm)       |       |       |        |        |        |        |        |        |        |
|----------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
|                      |                                                                                            |                                                                                             |                                                                                              | l/ha (nozzle spacing: 50 cm)              |       |       |        |        |        |        |        |        |        |
|                      |                                                                                            |                                                                                             |                                                                                              | l/ha (espacio entre las boquillas: 50 cm) |       |       |        |        |        |        |        |        |        |
|                      |                                                                                            |                                                                                             |                                                                                              | 4km/h                                     | 6km/h | 8km/h | 10km/h | 12km/h | 14km/h | 16km/h | 18km/h | 20km/h | 25km/h |
| SFA11006             | 1.5                                                                                        | UC                                                                                          | 1.70                                                                                         | 509                                       | 339   | 255   | 204    | 170    | 145    | 127    | 113    | 102    | 81     |
|                      | 3                                                                                          | XC                                                                                          | 2.40                                                                                         | 720                                       | 480   | 360   | 288    | 240    | 206    | 180    | 160    | 144    | 115    |
|                      | 5                                                                                          | XC                                                                                          | 3.10                                                                                         | 930                                       | 620   | 465   | 372    | 310    | 266    | 232    | 207    | 186    | 149    |
|                      | 7                                                                                          | XC                                                                                          | 3.67                                                                                         | 1.100                                     | 733   | 550   | 440    | 367    | 314    | 275    | 244    | 220    | 176    |
|                      | 8                                                                                          | XC                                                                                          | 3.92                                                                                         | 1.176                                     | 784   | 588   | 470    | 392    | 336    | 294    | 261    | 235    | 188    |
| SFA11008             | 1.5                                                                                        | XC                                                                                          | 2.26                                                                                         | 679                                       | 453   | 339   | 272    | 226    | 194    | 170    | 151    | 136    | 109    |
|                      | 3                                                                                          | XC                                                                                          | 3.20                                                                                         | 960                                       | 640   | 480   | 384    | 320    | 274    | 240    | 213    | 192    | 154    |
|                      | 5                                                                                          | VC                                                                                          | 4.13                                                                                         | 1.239                                     | 826   | 620   | 496    | 413    | 354    | 310    | 275    | 248    | 198    |
|                      | 7                                                                                          | VC                                                                                          | 4.89                                                                                         | 1.466                                     | 978   | 733   | 587    | 489    | 419    | 367    | 326    | 293    | 235    |
|                      | 8                                                                                          | VC                                                                                          | 5.23                                                                                         | 1.568                                     | 1.045 | 784   | 627    | 523    | 448    | 392    | 348    | 314    | 251    |
| SFA11010             | 1.5                                                                                        | UC                                                                                          | 2.83                                                                                         | 849                                       | 566   | 424   | 339    | 283    | 242    | 212    | 189    | 170    | 136    |
|                      | 3                                                                                          | UC                                                                                          | 4.00                                                                                         | 1.200                                     | 800   | 600   | 480    | 400    | 343    | 300    | 267    | 240    | 192    |
|                      | 5                                                                                          | XC                                                                                          | 5.16                                                                                         | 1.549                                     | 1.033 | 775   | 620    | 516    | 443    | 387    | 344    | 310    | 248    |
|                      | 7                                                                                          | XC                                                                                          | 6.11                                                                                         | 1.833                                     | 1.222 | 917   | 733    | 611    | 524    | 458    | 407    | 367    | 293    |
|                      | 8                                                                                          | XC                                                                                          | 6.53                                                                                         | 1.960                                     | 1.306 | 980   | 784    | 653    | 560    | 490    | 435    | 392    | 314    |



### Utilizzo Use Utilización



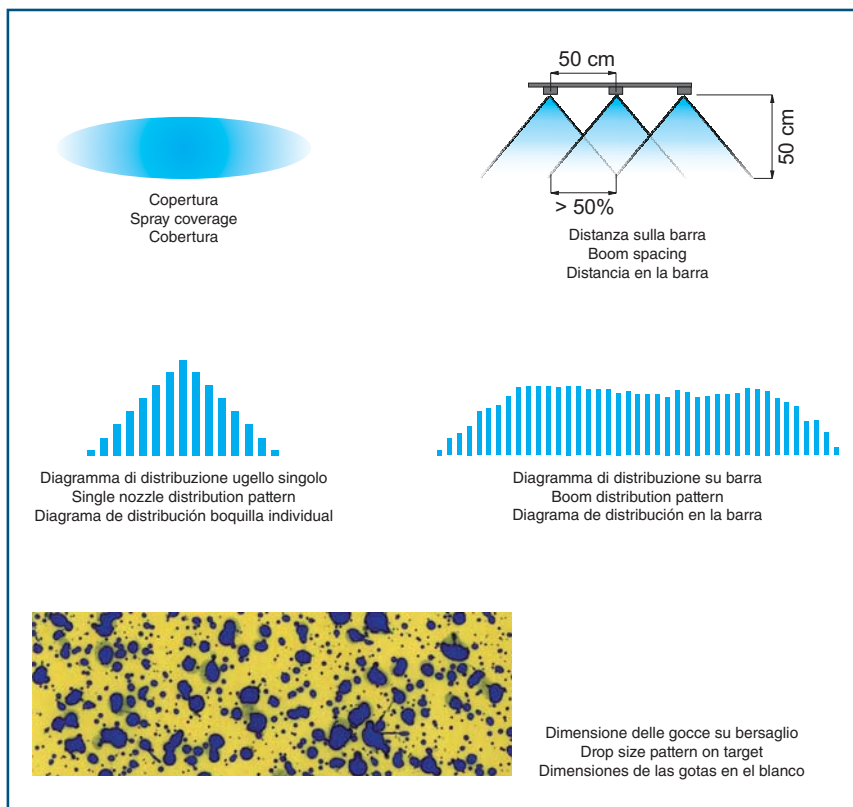
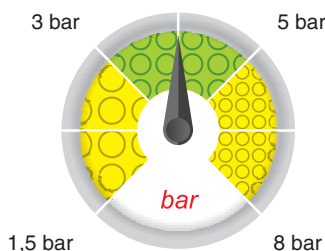
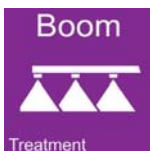
### Dimensioni (mm) Size (mm) Dimensiones (mm)



- Minor produzione di gocce piccole rispetto ai Compact Fan Air standard (aumento fino ad un massimo del 25% di gocce con dimensioni maggiori).
- Angolo di spruzzo di 100°.
- Riduzione della deriva in presenza di vento fino al 92%.
- Gocce di grandi dimensioni cariche di aria per assicurare una maggiore copertura della superficie fogliare.
- Permettono la sostituzione diretta degli ugelli di tipo Flat Fan.
- Completamente smontabile per una facile manutenzione.
- Stampato in Delrin®, ad alta stabilità chimica, che conferisce ottime caratteristiche di durata.

- Production of fewer small drops compared to the standard Compact Fan Air nozzles (larger sized drop increase up to 25%).
- 100° spray angle.
- Drift reduction in case of windy weather conditions up to 92%.
- Big drops containing a high amount of air ensuring larger coverage of leaf surfaces.
- They can directly replace Flat Fan nozzles.
- They can be fully removed for easier service.
- Made of molded Delrin®, a polymer ensuring high chemical stability and an exceptionally long useful life.

- Menor producción de gotas pequeñas con respecto a Compact Fan Air standard (aumento de hasta un máximo del 25% de las gotas con mayores tamaños).
- Ángulo de salida de 100°.
- Reducción de la deriva en presencia de viento hasta el 92%.
- Gruesas gotas cargadas de aire para asegurar una mayor cobertura de la superficie de las hojas.
- Permiten la sustitución directa de las boquillas de tipo Flat Fan.
- Completamente desmontable para un fácil mantenimiento.
- Moldeado en Delrin®, material con alta estabilidad química, que otorga excepcionales características de duración.



| COD.<br>CODE<br>CÓD. | <br>bar | <br>drop | <br>l/min | l/ha (spazio tra gli ugelli: 50 cm)<br>l/ha (nozzle spacing: 50 cm)<br>l/ha (espacio entre las boquillas: 50 cm) |       |       |        |        |        |        |        |        |        |
|----------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
|                      |                                                                                          |                                                                                           |                                                                                            | 4km/h                                                                                                            | 6km/h | 8km/h | 10km/h | 12km/h | 14km/h | 16km/h | 18km/h | 20km/h | 25km/h |
|                      |                                                                                          |                                                                                           |                                                                                            |                                                                                                                  |       |       |        |        |        |        |        |        |        |
|                      |                                                                                          |                                                                                           |                                                                                            |                                                                                                                  |       |       |        |        |        |        |        |        |        |
| CFAU11001            | 1,5                                                                                      | VC                                                                                        | 0,23                                                                                       | 69                                                                                                               | 46    | 35    | 28     | 23     | 20     | 17     | 15     | 14     | 11     |
|                      | 3                                                                                        | C                                                                                         | 0.40                                                                                       | 120                                                                                                              | 80    | 60    | 48     | 40     | 34     | 30     | 27     | 24     | 19     |
|                      | 4                                                                                        | C                                                                                         | 0.46                                                                                       | 139                                                                                                              | 92    | 69    | 55     | 46     | 40     | 35     | 31     | 28     | 22     |
|                      | 5                                                                                        | M                                                                                         | 0.52                                                                                       | 155                                                                                                              | 103   | 77    | 62     | 52     | 44     | 39     | 34     | 31     | 25     |
|                      | 6                                                                                        | M                                                                                         | 0.57                                                                                       | 170                                                                                                              | 113   | 85    | 68     | 57     | 48     | 42     | 38     | 34     | 27     |
|                      | 7                                                                                        | M                                                                                         | 0.61                                                                                       | 183                                                                                                              | 122   | 92    | 73     | 61     | 52     | 46     | 41     | 37     | 29     |
|                      | 8                                                                                        | M                                                                                         | 0.65                                                                                       | 196                                                                                                              | 131   | 98    | 78     | 65     | 56     | 49     | 44     | 39     | 31     |
| CFAU110015           | 1.5                                                                                      | UC                                                                                        | 0,35                                                                                       | 104                                                                                                              | 69    | 52    | 42     | 35     | 30     | 26     | 23     | 21     | 17     |
|                      | 3                                                                                        | C                                                                                         | 0.60                                                                                       | 180                                                                                                              | 120   | 90    | 72     | 60     | 51     | 45     | 40     | 36     | 29     |
|                      | 4                                                                                        | C                                                                                         | 0.69                                                                                       | 208                                                                                                              | 139   | 104   | 83     | 69     | 59     | 52     | 46     | 42     | 33     |
|                      | 5                                                                                        | C                                                                                         | 0.77                                                                                       | 232                                                                                                              | 155   | 116   | 93     | 77     | 66     | 58     | 52     | 46     | 37     |
|                      | 6                                                                                        | C                                                                                         | 0.85                                                                                       | 255                                                                                                              | 170   | 127   | 102    | 85     | 73     | 64     | 57     | 51     | 41     |
|                      | 7                                                                                        | M                                                                                         | 0.92                                                                                       | 275                                                                                                              | 183   | 137   | 110    | 92     | 79     | 69     | 61     | 55     | 44     |
|                      | 8                                                                                        | M                                                                                         | 0.98                                                                                       | 294                                                                                                              | 196   | 147   | 118    | 98     | 84     | 73     | 65     | 59     | 47     |
| CFAU11002            | 1,5                                                                                      | UC                                                                                        | 0,46                                                                                       | 139                                                                                                              | 92    | 69    | 55     | 46     | 40     | 35     | 31     | 28     | 22     |
|                      | 3                                                                                        | XC                                                                                        | 0.80                                                                                       | 240                                                                                                              | 160   | 120   | 96     | 80     | 69     | 60     | 53     | 48     | 38     |
|                      | 4                                                                                        | XC                                                                                        | 0.92                                                                                       | 277                                                                                                              | 185   | 139   | 111    | 92     | 79     | 69     | 62     | 55     | 44     |
|                      | 5                                                                                        | XC                                                                                        | 1.03                                                                                       | 310                                                                                                              | 207   | 155   | 124    | 103    | 89     | 77     | 69     | 62     | 50     |
|                      | 6                                                                                        | VC                                                                                        | 1.13                                                                                       | 339                                                                                                              | 226   | 170   | 136    | 113    | 97     | 85     | 75     | 68     | 54     |
|                      | 7                                                                                        | VC                                                                                        | 1.22                                                                                       | 367                                                                                                              | 244   | 183   | 147    | 122    | 105    | 92     | 81     | 73     | 59     |
|                      | 8                                                                                        | VC                                                                                        | 1.31                                                                                       | 392                                                                                                              | 261   | 196   | 157    | 131    | 112    | 98     | 87     | 78     | 63     |
| CFAU110025           | 1,5                                                                                      | XC                                                                                        | 0,58                                                                                       | 173                                                                                                              | 115   | 87    | 69     | 58     | 49     | 43     | 38     | 35     | 28     |
|                      | 3                                                                                        | XC                                                                                        | 1.00                                                                                       | 300                                                                                                              | 200   | 150   | 120    | 100    | 86     | 75     | 67     | 60     | 48     |
|                      | 4                                                                                        | VC                                                                                        | 1.15                                                                                       | 346                                                                                                              | 231   | 173   | 139    | 115    | 99     | 87     | 77     | 69     | 55     |
|                      | 5                                                                                        | VC                                                                                        | 1.29                                                                                       | 387                                                                                                              | 258   | 194   | 155    | 129    | 111    | 97     | 86     | 77     | 62     |
|                      | 6                                                                                        | C                                                                                         | 1.41                                                                                       | 424                                                                                                              | 283   | 212   | 170    | 141    | 121    | 106    | 94     | 85     | 68     |
|                      | 7                                                                                        | C                                                                                         | 1.53                                                                                       | 458                                                                                                              | 306   | 229   | 183    | 153    | 131    | 115    | 102    | 92     | 73     |
|                      | 8                                                                                        | C                                                                                         | 1.63                                                                                       | 490                                                                                                              | 327   | 245   | 196    | 163    | 140    | 122    | 109    | 98     | 78     |
| CFAU11003            | 1,5                                                                                      | UC                                                                                        | 0,69                                                                                       | 208                                                                                                              | 139   | 104   | 83     | 69     | 59     | 52     | 46     | 42     | 33     |
|                      | 3                                                                                        | XC                                                                                        | 1.20                                                                                       | 360                                                                                                              | 240   | 180   | 144    | 120    | 103    | 90     | 80     | 72     | 58     |
|                      | 4                                                                                        | XC                                                                                        | 1.39                                                                                       | 416                                                                                                              | 277   | 208   | 166    | 139    | 119    | 104    | 92     | 83     | 67     |
|                      | 5                                                                                        | XC                                                                                        | 1.55                                                                                       | 465                                                                                                              | 310   | 232   | 186    | 155    | 133    | 116    | 103    | 93     | 74     |
|                      | 6                                                                                        | VC                                                                                        | 1.70                                                                                       | 509                                                                                                              | 339   | 255   | 204    | 170    | 145    | 127    | 113    | 102    | 81     |
|                      | 7                                                                                        | VC                                                                                        | 1.83                                                                                       | 550                                                                                                              | 367   | 275   | 220    | 183    | 157    | 137    | 122    | 110    | 88     |
|                      | 8                                                                                        | VC                                                                                        | 1.96                                                                                       | 588                                                                                                              | 392   | 294   | 235    | 196    | 168    | 147    | 131    | 118    | 94     |
| CFAU11004            | 1,5                                                                                      | UC                                                                                        | 0,92                                                                                       | 277                                                                                                              | 185   | 139   | 111    | 92     | 79     | 69     | 62     | 55     | 44     |
|                      | 3                                                                                        | XC                                                                                        | 1.60                                                                                       | 480                                                                                                              | 320   | 240   | 192    | 160    | 137    | 120    | 107    | 96     | 77     |
|                      | 4                                                                                        | XC                                                                                        | 1.85                                                                                       | 554                                                                                                              | 370   | 277   | 222    | 185    | 158    | 139    | 123    | 111    | 89     |
|                      | 5                                                                                        | XC                                                                                        | 2.07                                                                                       | 620                                                                                                              | 413   | 310   | 248    | 207    | 177    | 155    | 138    | 124    | 99     |
|                      | 6                                                                                        | VC                                                                                        | 2.26                                                                                       | 679                                                                                                              | 453   | 339   | 272    | 226    | 194    | 170    | 151    | 136    | 109    |
|                      | 7                                                                                        | VC                                                                                        | 2.44                                                                                       | 733                                                                                                              | 489   | 367   | 293    | 244    | 209    | 183    | 163    | 147    | 117    |
|                      | 8                                                                                        | VC                                                                                        | 2.61                                                                                       | 784                                                                                                              | 523   | 392   | 314    | 261    | 224    | 196    | 174    | 157    | 125    |
| CFAU11005            | 1,5                                                                                      | UC                                                                                        | 1,15                                                                                       | 346                                                                                                              | 231   | 173   | 139    | 115    | 99     | 87     | 77     | 69     | 55     |
|                      | 3                                                                                        | UC                                                                                        | 2.00                                                                                       | 600                                                                                                              | 400   | 300   | 240    | 200    | 171    | 150    | 133    | 120    | 96     |
|                      | 4                                                                                        | XC                                                                                        | 2.31                                                                                       | 693                                                                                                              | 462   | 346   | 277    | 231    | 198    | 173    | 154    | 139    | 111    |
|                      | 5                                                                                        | XC                                                                                        | 2.58                                                                                       | 775                                                                                                              | 516   | 387   | 310    | 258    | 221    | 194    | 172    | 155    | 124    |
|                      | 6                                                                                        | XC                                                                                        | 2.83                                                                                       | 849                                                                                                              | 566   | 424   | 339    | 283    | 242    | 212    | 189    | 170    | 136    |
|                      | 7                                                                                        | XC                                                                                        | 3.06                                                                                       | 917                                                                                                              | 611   | 458   | 367    | 306    | 262    | 229    | 204    | 183    | 147    |
|                      | 8                                                                                        | XC                                                                                        | 3.27                                                                                       | 980                                                                                                              | 653   | 490   | 392    | 327    | 280    | 245    | 218    | 196    | 157    |

|  | DIMENSIONE DELLE GOCCE<br>DROP SIZE RATING<br>DIMENSIONES DE LAS GOTAS |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| M                                                                                   | Media-Medium-Media                                                     |
| C                                                                                   | Grossa-Coarse-Gruesa                                                   |
| VC                                                                                  | Molto grossa-Very coarse-Muy gruesa                                    |
| XC                                                                                  | Estremamente grossa-Extremely coarse-Extremadamente gruesa             |
| UC                                                                                  | Ultra grossa-Ultra coarse-Ultra gruesa                                 |

Classificazione in accordo con lo  
standard ASABE S572.3 e la norma  
ISO25358

Classification according to ASABE  
S572.3 and ISO25358

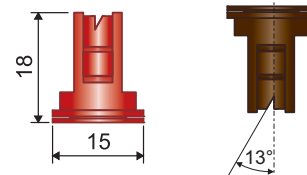
Clasificación según ASABE S572.3 e  
ISO25358



## Utilizzo Use Utilización



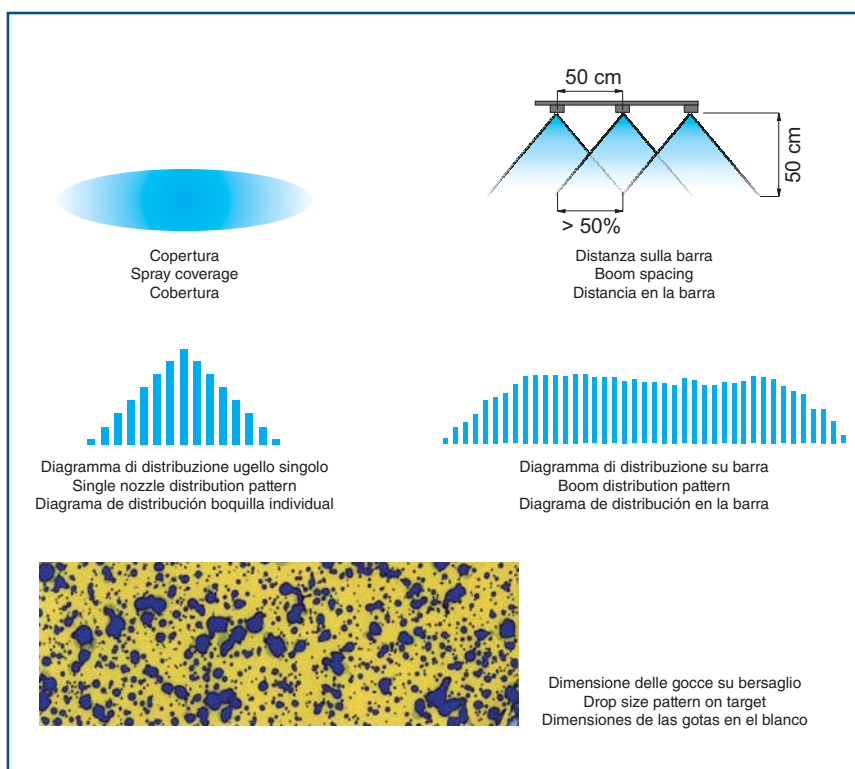
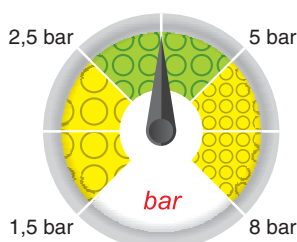
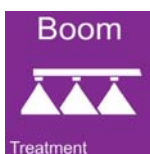
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



- **Produce un getto inclinato di 13°** in avanti o indietro per una migliore penetrazione e copertura su una vegetazione fitta.
- Adatto per trattamenti con erbicidi, fungicidi ed insetticidi: efficace per trattamenti su ortaggi e cereali.
- Può essere montato in modo alternato per ottenere una copertura simile a quella prodotta da ugelli a doppio ventaglio.
- L'azione combinata di iniezione d'aria e del ventaglio inclinato permette un'elevata riduzione della deriva pur mantenendo una buona copertura.
- Completamente smontabile per una facile manutenzione.
- Design compatto: permette la sostituzione diretta degli ugelli di tipo Flat Fan.
- Il corpo esterno compatto (18 mm di altezza) in Delrin® conferisce eccezionali caratteristiche di durata.

- **Its spray can be tilted 13°** forward or back for an improved penetration and coverage on thick vegetation.
- Suitable for spraying herbicides, fungicides and pesticides on vegetables and cereals.
- It can be assembled alternately to obtain a similar coverage to the one produced by twin fan nozzles.
- The combined action of air injection and tilted fan allows a considerable decrease of drift, yet ensuring a good coverage.
- It can be fully removed for easier service.
- Compact design: allows Flat Fan nozzle easy replacement.
- The compact external body (18 mm high) in Delrin® ensures exceptional long life.

- **Produce un chorro inclinado a 13°** hacia adelante o atrás para una mejor penetración y cobertura sobre una vegetación espesa.
- Adecuado para tratamientos con herbicidas, fungicidas e insecticidas: eficiente para tratamientos en hortalizas y cereales.
- Puede ser montado de manera alternada para obtener una cobertura similar a la producida por boquillas dobles en abanico.
- La acción combinada de inyección de aire y del abanico inclinado permite una elevada reducción de la deriva, manteniendo una buena cobertura.
- Completamente desmontable para un fácil mantenimiento.
- Diseño compacto: permite la sustitución directa de las boquillas de tipo Flat Fan.
- El cuerpo exterior compacto (18 mm de altura) de Delrin®, le otorga una excelente durabilidad.



| COD.<br>CODE<br>CÓD. |  |  |  |  | l/ha (spazio tra gli ugelli: 50 cm)<br>l/ha (nozzle spacing: 50 cm)<br>l/ha (espacio entre las boquillas: 50 cm) |       |       |        |        |        |        |        |        |        |
|----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
|                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 4km/h                                                                                                            | 6km/h | 8km/h | 10km/h | 12km/h | 14km/h | 16km/h | 18km/h | 20km/h | 25km/h |
| CFAT110015           | 95°                                                                               | 1.5                                                                               | XC                                                                                | 0.42                                                                              | 127                                                                                                              | 85    | 64    | 51     | 42     | 36     | 32     | 28     | 25     | 20     |
|                      |                                                                                   | 3                                                                                 | XC                                                                                | 0.60                                                                              | 180                                                                                                              | 120   | 90    | 72     | 60     | 51     | 45     | 40     | 36     | 29     |
|                      |                                                                                   | 4                                                                                 | VC                                                                                | 0.69                                                                              | 208                                                                                                              | 139   | 104   | 83     | 69     | 59     | 52     | 46     | 42     | 33     |
|                      |                                                                                   | 6                                                                                 | C                                                                                 | 0.85                                                                              | 255                                                                                                              | 170   | 127   | 102    | 85     | 73     | 64     | 57     | 51     | 41     |
|                      |                                                                                   | 8                                                                                 | C                                                                                 | 0.98                                                                              | 294                                                                                                              | 196   | 147   | 118    | 98     | 84     | 73     | 65     | 59     | 47     |
| CFAT11002            | 95°                                                                               | 1.5                                                                               | UC                                                                                | 0.57                                                                              | 170                                                                                                              | 113   | 85    | 68     | 57     | 48     | 42     | 38     | 34     | 27     |
|                      |                                                                                   | 3                                                                                 | XC                                                                                | 0.80                                                                              | 240                                                                                                              | 160   | 120   | 96     | 80     | 69     | 60     | 53     | 48     | 38     |
|                      |                                                                                   | 4                                                                                 | XC                                                                                | 0.92                                                                              | 277                                                                                                              | 185   | 139   | 111    | 92     | 79     | 69     | 62     | 55     | 44     |
|                      |                                                                                   | 6                                                                                 | XC                                                                                | 1.13                                                                              | 339                                                                                                              | 226   | 170   | 136    | 113    | 97     | 85     | 75     | 68     | 54     |
|                      |                                                                                   | 8                                                                                 | VC                                                                                | 1.31                                                                              | 392                                                                                                              | 261   | 196   | 157    | 131    | 112    | 98     | 87     | 78     | 63     |
| CFAT110025           | 100°                                                                              | 1.5                                                                               | UC                                                                                | 0.71                                                                              | 212                                                                                                              | 141   | 106   | 85     | 71     | 61     | 53     | 47     | 42     | 34     |
|                      |                                                                                   | 3                                                                                 | XC                                                                                | 1.00                                                                              | 300                                                                                                              | 200   | 150   | 120    | 100    | 86     | 75     | 67     | 60     | 48     |
|                      |                                                                                   | 4                                                                                 | XC                                                                                | 1.15                                                                              | 346                                                                                                              | 231   | 173   | 139    | 115    | 99     | 87     | 77     | 69     | 55     |
|                      |                                                                                   | 6                                                                                 | XC                                                                                | 1.41                                                                              | 424                                                                                                              | 283   | 212   | 170    | 141    | 121    | 106    | 94     | 85     | 68     |
|                      |                                                                                   | 8                                                                                 | VC                                                                                | 1.63                                                                              | 490                                                                                                              | 327   | 245   | 196    | 163    | 140    | 122    | 109    | 98     | 78     |
| CFAT11003            | 100°                                                                              | 1.5                                                                               | UC                                                                                | 0.85                                                                              | 255                                                                                                              | 170   | 127   | 102    | 85     | 73     | 64     | 57     | 51     | 41     |
|                      |                                                                                   | 3                                                                                 | XC                                                                                | 1.20                                                                              | 360                                                                                                              | 240   | 180   | 144    | 120    | 103    | 90     | 80     | 72     | 58     |
|                      |                                                                                   | 4                                                                                 | XC                                                                                | 1.39                                                                              | 416                                                                                                              | 277   | 208   | 166    | 139    | 119    | 104    | 92     | 83     | 67     |
|                      |                                                                                   | 6                                                                                 | VC                                                                                | 1.70                                                                              | 509                                                                                                              | 339   | 255   | 204    | 170    | 145    | 127    | 113    | 102    | 81     |
|                      |                                                                                   | 8                                                                                 | VC                                                                                | 1.96                                                                              | 588                                                                                                              | 392   | 294   | 235    | 196    | 168    | 147    | 131    | 118    | 94     |
| CFAT11004            | 110°                                                                              | 1.5                                                                               | UC                                                                                | 1.13                                                                              | 339                                                                                                              | 226   | 170   | 136    | 113    | 97     | 85     | 75     | 68     | 54     |
|                      |                                                                                   | 3                                                                                 | XC                                                                                | 1.60                                                                              | 480                                                                                                              | 320   | 240   | 192    | 160    | 137    | 120    | 107    | 96     | 77     |
|                      |                                                                                   | 4                                                                                 | XC                                                                                | 1.85                                                                              | 554                                                                                                              | 370   | 277   | 222    | 185    | 158    | 139    | 123    | 111    | 89     |
|                      |                                                                                   | 6                                                                                 | XC                                                                                | 2.26                                                                              | 679                                                                                                              | 453   | 339   | 272    | 226    | 194    | 170    | 151    | 136    | 109    |
|                      |                                                                                   | 8                                                                                 | VC                                                                                | 2.61                                                                              | 784                                                                                                              | 523   | 392   | 314    | 261    | 224    | 196    | 174    | 157    | 125    |
| CFAT11005            | 110°                                                                              | 1.5                                                                               | UC                                                                                | 1.41                                                                              | 424                                                                                                              | 283   | 212   | 170    | 141    | 121    | 106    | 94     | 85     | 68     |
|                      |                                                                                   | 3                                                                                 | XC                                                                                | 2.00                                                                              | 600                                                                                                              | 400   | 300   | 240    | 200    | 171    | 150    | 133    | 120    | 96     |
|                      |                                                                                   | 4                                                                                 | XC                                                                                | 2.31                                                                              | 693                                                                                                              | 462   | 346   | 277    | 231    | 198    | 173    | 154    | 139    | 111    |
|                      |                                                                                   | 6                                                                                 | VC                                                                                | 2.83                                                                              | 849                                                                                                              | 566   | 424   | 339    | 283    | 242    | 212    | 189    | 170    | 136    |
|                      |                                                                                   | 8                                                                                 | VC                                                                                | 3.27                                                                              | 980                                                                                                              | 653   | 490   | 392    | 327    | 280    | 245    | 218    | 196    | 157    |

|  <b>DIMENSIONE DELLE GOCCE</b><br><b>DROP SIZE RATING</b><br><b>DIMENSIONES DE LAS GOTAS</b> |                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>C</b>                                                                                                                                                                        | Grossa-Coarse-Gruesa                                       |
| <b>VC</b>                                                                                                                                                                       | Molto grossa-Very coarse-Muy gruesa                        |
| <b>XC</b>                                                                                                                                                                       | Estremamente grossa-Extremely coarse-Extremadamente gruesa |
| <b>UC</b>                                                                                                                                                                       | Ultra grossa- Ultra coarse-Ultra gruesa                    |

Classificazione in accordo con lo standard ASABE S572.3 e la norma ISO25358

Classification according to ASABE S572.3 and ISO25358

Clasificación según ASABE S572.3 e ISO25358

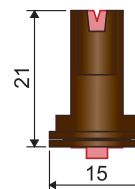




Utilizzo  
Use  
Utilización



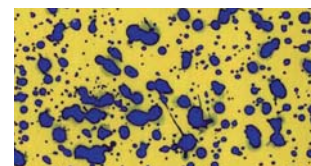
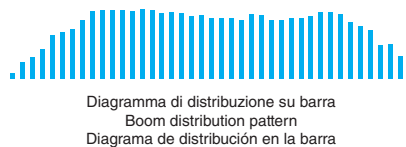
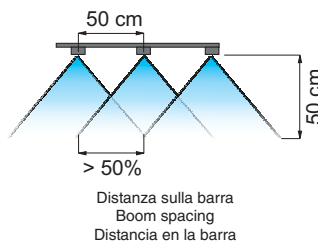
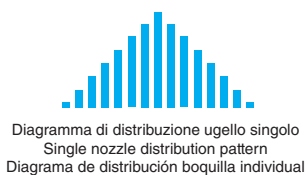
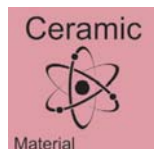
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



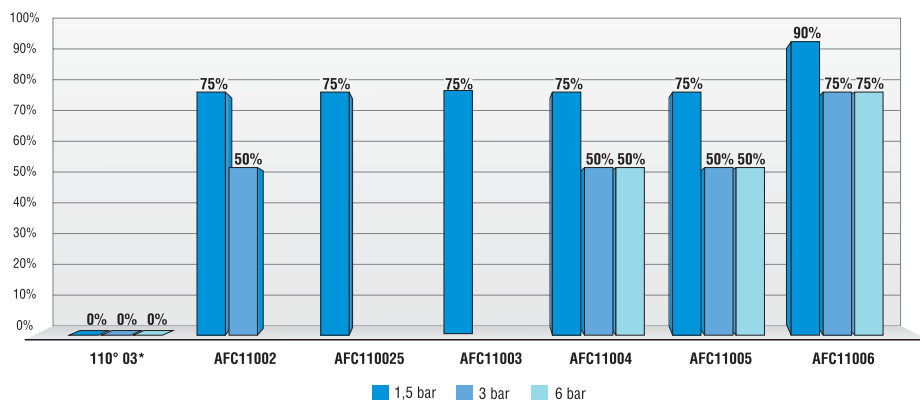
- Copertura costante a tutte le pressioni.
- La struttura suddivisa in due pezzi consente una pulizia più facile.
- Le dimensioni standard permettono la sostituzione diretta degli ugelli di tipo Flat Fan.
- Riduzione della deriva fino ad un massimo del 90%, rispetto agli ugelli convenzionali.
- Sono in grado di produrre gocce di grandi dimensioni piene di bolle d'aria che si rompono a contatto con la coltura dividendosi in goccioline più fini.
- Il corpo esterno stampato in Delrin®, unito all'inserto in ceramica conferisce eccezionali caratteristiche di durata.

- Smooth coverage at any pressure.
- Their two-piece structure allows easier cleaning
- Thanks to their standard size they can directly replace Flat Fan nozzles.
- Drift reduced up to 90% if compared to classic nozzles.
- Spray very big drops containing air bubbles, which break onto the crop into several smaller drops.
- Their Delrin®-molded outer body, together with their ceramic insert, ensures an exceptionally long useful life.

- Cobertura costante en todas las presiones.
- La estructura subdividida en dos piezas permite una limpieza más fácil.
- Las dimensiones estándar permiten la sustitución directa de las boquillas de tipo Flat Fan.
- Reducción de la deriva hasta un máximo del 90% respecto a las boquillas convencionales.
- Pueden emitir gotas de grandes dimensiones llenas de burbujas de aire que se rompen al entrar en contacto con el cultivo, dividiéndose en pequeñas y más finas gotas.
- El cuerpo exterior moldeado en Delrin®, junto al inserto de cerámica, le otorga excepcionales características de durabilidad.



Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco



Riduzione della deriva in funzione di portata e pressione.  
Drift reduction according to flowrate and pressure.  
Reducción de la deriva de acuerdo al caudal y la presión.

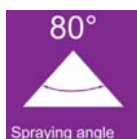
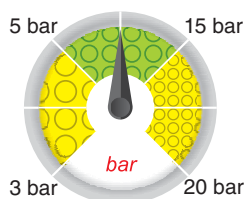
Prove effettuate presso l'istituto **JKI** in Germania.  
Tests made at **JKI** Institute in Germany.  
Pruebas llevadas en el Instituto **JKI** en Alemania.

\*Ugello di riferimento  
\*Reference nozzle  
\*Boquilla de referencia

# FAN AIR CERAMIC 80°-110°

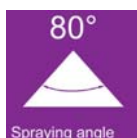
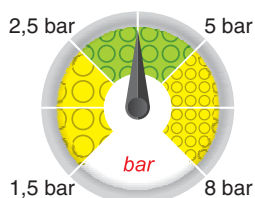
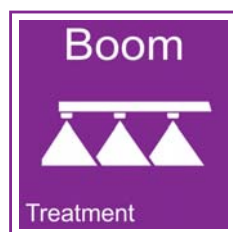
# AFC

Ugelli a ventaglio antideriva  
Fan low drift nozzles  
Boquillas en abanico antideriva



| CODE 80°  | 3  | 4  | 5  | 6  | 8 | 10 | 15 | 20 |
|-----------|----|----|----|----|---|----|----|----|
| AFC08001  | C  | C  | M  | M  | M | M  | M  | M  |
| AFC080015 | M  | M  | M  | M  | M | M  | M  | M  |
| AFC08002  | C  | C  | C  | M  | M | M  | M  | M  |
| AFC080025 | C  | M  | M  | M  | M | M  | M  | M  |
| AFC08003  | C  | C  | C  | M  | M | M  | M  | M  |
| AFC080035 | VC | VC | VC | C  | C | C  | C  | C  |
| AFC08004  | VC | VC | VC | C  | C | C  | C  | C  |
| AFC08005  | VC | VC | VC | C  | C | C  | C  | C  |
| AFC08006  | XC | VC | VC | VC | C | C  | C  | C  |

| CODE 80°  | 3 bar | 4 bar | 5 bar | 6 bar | 7 bar | 8 bar | 9 bar | 10 bar | 11 bar | 12 bar | 13 bar | 14 bar | 15 bar | 16 bar | 17 bar | 18 bar | 19 bar | 20 bar |
|-----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| AFC08001  | 0.40  | 0.46  | 0.52  | 0.57  | 0.61  | 0.65  | 0.69  | 0.73   | 0.77   | 0.80   | 0.83   | 0.86   | 0.89   | 0.92   | 0.95   | 0.98   | 1.01   | 1.03   |
| AFC080015 | 0.60  | 0.69  | 0.77  | 0.85  | 0.92  | 0.98  | 1.04  | 1.10   | 1.15   | 1.20   | 1.25   | 1.30   | 1.34   | 1.39   | 1.43   | 1.47   | 1.51   | 1.55   |
| AFC08002  | 0.80  | 0.92  | 1.03  | 1.13  | 1.22  | 1.31  | 1.39  | 1.46   | 1.53   | 1.60   | 1.67   | 1.73   | 1.79   | 1.85   | 1.90   | 1.96   | 2.01   | 2.07   |
| AFC080025 | 1.00  | 1.15  | 1.29  | 1.41  | 1.53  | 1.63  | 1.73  | 1.83   | 1.91   | 2.00   | 2.08   | 2.16   | 2.24   | 2.31   | 2.38   | 2.45   | 2.52   | 2.58   |
| AFC08003  | 1.20  | 1.39  | 1.55  | 1.70  | 1.83  | 1.96  | 2.08  | 2.19   | 2.30   | 2.40   | 2.50   | 2.59   | 2.68   | 2.77   | 2.86   | 2.94   | 3.02   | 3.10   |
| AFC080035 | 1.40  | 1.62  | 1.81  | 1.98  | 2.14  | 2.29  | 2.42  | 2.56   | 2.68   | 2.80   | 2.91   | 3.02   | 3.13   | 3.23   | 3.33   | 3.43   | 3.52   | 3.61   |
| AFC08004  | 1.60  | 1.85  | 2.07  | 2.26  | 2.44  | 2.61  | 2.77  | 2.92   | 3.06   | 3.20   | 3.33   | 3.46   | 3.58   | 3.70   | 3.81   | 3.92   | 4.03   | 4.13   |
| AFC08005  | 2.00  | 2.31  | 2.58  | 2.83  | 3.06  | 3.27  | 3.46  | 3.65   | 3.83   | 4.00   | 4.16   | 4.32   | 4.47   | 4.62   | 4.76   | 4.90   | 5.03   | 5.16   |
| AFC08006  | 2.40  | 2.77  | 3.10  | 3.39  | 3.67  | 3.92  | 4.16  | 4.38   | 4.60   | 4.80   | 5.00   | 5.18   | 5.37   | 5.54   | 5.71   | 5.88   | 6.04   | 6.20   |



| CODE 80°  | bar | drop | l/min | 4 km/h | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h | 25 km/h | drop | CODE 110° |
|-----------|-----|------|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------|
| AFC08001  | 1.5 | XC   | 0.28  | 85     | 57     | 42     | 34      | 28      | 24      | 21      | 19      | 17      | 14      | XC   | AFC11001  |
|           | 3   | C    | 0.40  | 120    | 80     | 60     | 48      | 40      | 34      | 30      | 27      | 24      | 19      | C    |           |
|           | 4   | C    | 0.46  | 139    | 92     | 69     | 55      | 46      | 40      | 35      | 31      | 28      | 22      | C    |           |
|           | 8   | M    | 0.65  | 196    | 131    | 98     | 78      | 65      | 56      | 49      | 44      | 39      | 31      | M    |           |
| AFC080015 | 1.5 | VC   | 0.42  | 127    | 85     | 64     | 51      | 42      | 36      | 32      | 28      | 25      | 20      | XC   | AFC110015 |
|           | 3   | M    | 0.60  | 180    | 120    | 90     | 72      | 60      | 51      | 45      | 40      | 36      | 29      | C    |           |
|           | 4   | M    | 0.69  | 208    | 139    | 104    | 83      | 69      | 59      | 52      | 46      | 42      | 33      | C    |           |
|           | 8   | M    | 0.98  | 294    | 196    | 147    | 118     | 98      | 84      | 73      | 65      | 59      | 47      | M    |           |
| AFC08002  | 1.5 | XC   | 0.57  | 170    | 113    | 85     | 68      | 57      | 48      | 42      | 38      | 34      | 27      | VC   | AFC11002  |
|           | 3   | C    | 0.80  | 240    | 160    | 120    | 96      | 80      | 69      | 60      | 53      | 48      | 38      | C    |           |
|           | 4   | C    | 0.92  | 277    | 185    | 139    | 111     | 92      | 79      | 69      | 62      | 55      | 44      | C    |           |
|           | 8   | M    | 1.31  | 392    | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 63      | M    |           |
| AFC080025 | 1.5 | VC   | 0.71  | 212    | 141    | 106    | 85      | 71      | 61      | 53      | 47      | 42      | 34      | C    | AFC110025 |
|           | 3   | C    | 1.00  | 300    | 200    | 150    | 120     | 100     | 86      | 75      | 67      | 60      | 48      | M    |           |
|           | 4   | M    | 1.15  | 346    | 231    | 173    | 139     | 115     | 99      | 87      | 77      | 69      | 55      | M    |           |
|           | 8   | M    | 1.63  | 490    | 327    | 245    | 196     | 163     | 140     | 122     | 109     | 98      | 78      | M    |           |
| AFC08003  | 1.5 | VC   | 0.85  | 255    | 170    | 127    | 102     | 85      | 73      | 64      | 57      | 51      | 41      | VC   | AFC11003  |
|           | 3   | C    | 1.20  | 360    | 240    | 180    | 144     | 120     | 103     | 90      | 80      | 72      | 58      | C    |           |
|           | 4   | C    | 1.39  | 416    | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 67      | M    |           |
|           | 8   | M    | 1.96  | 588    | 392    | 294    | 235     | 196     | 168     | 147     | 131     | 118     | 94      | M    |           |
| AFC080035 | 1.5 | XC   | 0.99  | 297    | 198    | 148    | 119     | 99      | 85      | 74      | 66      | 59      | 48      |      | NA        |
|           | 3   | VC   | 1.40  | 420    | 280    | 210    | 168     | 140     | 120     | 105     | 93      | 84      | 67      |      |           |
|           | 4   | VC   | 1.62  | 485    | 323    | 242    | 194     | 162     | 139     | 121     | 108     | 97      | 78      |      |           |
|           | 8   | C    | 2.29  | 686    | 457    | 343    | 274     | 229     | 196     | 171     | 152     | 137     | 110     |      |           |
| AFC08004  | 1.5 | XC   | 2.29  | 686    | 457    | 343    | 274     | 229     | 196     | 171     | 152     | 137     | 54      | XC   | AFC11004  |
|           | 3   | VC   | 1.60  | 480    | 320    | 240    | 192     | 160     | 137     | 120     | 107     | 96      | 77      | VC   |           |
|           | 4   | VC   | 1.85  | 554    | 370    | 277    | 222     | 185     | 158     | 139     | 123     | 111     | 89      | C    |           |
|           | 8   | C    | 2.61  | 784    | 523    | 392    | 314     | 261     | 224     | 196     | 174     | 157     | 125     | C    |           |
| AFC08005  | 1.5 | XC   | 1.41  | 424    | 283    | 212    | 170     | 141     | 121     | 106     | 94      | 85      | 68      | VC   | AFC11005  |
|           | 3   | VC   | 2.00  | 600    | 400    | 300    | 240     | 200     | 171     | 150     | 133     | 120     | 96      | C    |           |
|           | 4   | VC   | 2.31  | 693    | 462    | 346    | 277     | 231     | 198     | 173     | 154     | 139     | 111     | C    |           |
|           | 8   | C    | 3.27  | 980    | 653    | 490    | 392     | 327     | 280     | 245     | 218     | 196     | 157     | C    |           |
| AFC08006  | 1.5 | XC   | 1.70  | 509    | 339    | 255    | 204     | 170     | 145     | 127     | 113     | 102     | 81      | XC   | AFC11006  |
|           | 3   | XC   | 2.40  | 720    | 480    | 360    | 288     | 240     | 206     | 180     | 160     | 144     | 115     | C    |           |
|           | 4   | VC   | 2.77  | 831    | 554    | 416    | 333     | 277     | 238     | 208     | 185     | 166     | 133     | C    |           |
|           | 8   | C    | 3.92  | 1176   | 784    | 588    | 470     | 392     | 336     | 294     | 261     | 235     | 188     | C    |           |

| <b>DIMENSIONE DELLE GOCCE - DROP SIZE RATING - DIMENSIONES DE LAS GOTAS</b> |                                                            |
|-----------------------------------------------------------------------------|------------------------------------------------------------|
| M                                                                           | Media-Medium-Media                                         |
| C                                                                           | Grossa-Coarse-Gruesa                                       |
| VC                                                                          | Molto grossa-Very coarse-Muy gruesa                        |
| XC                                                                          | Estremamente grossa-Extremely coarse-Extremadamente gruesa |

Classificazione in accordo con lo standard ASABE S572.3 e la norma ISO25358

Classification according to ASABE S572.3 and ISO25358

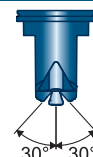
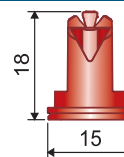
Clasificación según ASABE S572.3 e ISO25358



**Utilizzo**  
**Use**  
**Utilización**



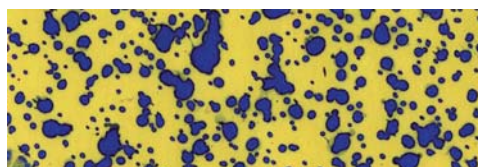
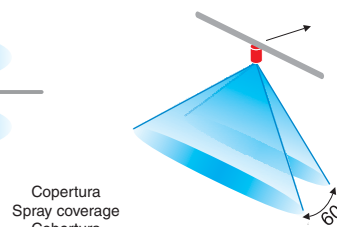
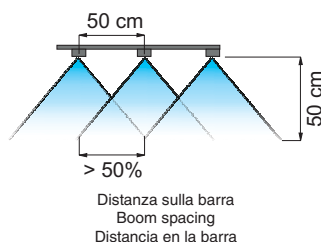
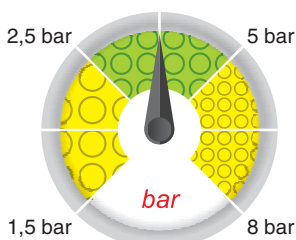
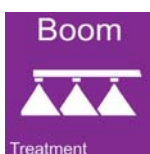
**Dimensioni (mm)**  
**Size (mm)**  
**Dimensiones (mm)**



- Offre una buona copertura, migliorando la penetrazione ed il deposito dei prodotti grazie ai due getti inclinati di 30°+30°.
- Design compatto per ridurre il rischio di danneggiamenti.
- Doppia presa d'aria di grandi dimensioni con profilo anti-intasamento.
- Grosse gocce cariche di aria per assicurare una maggiore copertura della superficie fogliare.
- Completamente smontabile per una facile manutenzione.
- Utilizzabile con testine per gli ugelli di tipo Flat Fan.
- Stampato in Delrin®, ad alta stabilità chimica, che conferisce ottime caratteristiche di durata.

- Provides good spraying range, improving penetration and application of the products thanks to two nozzles at 30°+30°.
- Compact design to reduce the risk of damage.
- Large double air intake with anti-clogging profile.
- Large drops filled with air to ensure improved spraying of the leaf surface.
- Can be fully disassembled for easy maintenance.
- Can be used with Flat Fan nozzle caps.
- Made of molded Delrin®, a polymer ensuring high chemical stability and an excellent useful life.

- Ofrece una buena cobertura, mejorando la penetración y el depósito de productos gracias a los dos chorros inclinados de 30°+30°.
- Diseño compacto para reducir posibles daños.
- Doble toma de aire de gran tamaño con perfil anti-obstrucción.
- Gruesas gotas cargadas de aire para asegurar una mayor cobertura de la superficie de las hojas.
- Completamente desmontable para un fácil mantenimiento.
- Puede ser utilizado con cabezales para boquillas tipo Flat Fan.
- Moldeado en Delrin®, con alta estabilidad química, que otorga excepcionales características de duración.



Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco

| COD.<br>CODE<br>CÓD. | <br>bar | <br>drop | <br>l/min | l/ha (spazio tra gli ugelli: 50 cm)<br>l/ha (nozzle spacing: 50 cm)<br>l/ha (espacio entre las boquillas: 50 cm) |        |        |         |         |         |         |         |         |         |
|----------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
|                      |                                                                                          |                                                                                           |                                                                                            | 4 km/h                                                                                                           | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h | 25 km/h |
|                      |                                                                                          |                                                                                           |                                                                                            |                                                                                                                  |        |        |         |         |         |         |         |         |         |
|                      |                                                                                          |                                                                                           |                                                                                            |                                                                                                                  |        |        |         |         |         |         |         |         |         |
| ATP3030015           | 1.5                                                                                      | C                                                                                         | 0,42                                                                                       | 127                                                                                                              | 85     | 64     | 51      | 42      | 36      | 32      | 28      | 25      | 20      |
|                      | 3                                                                                        | M                                                                                         | 0,60                                                                                       | 180                                                                                                              | 120    | 90     | 72      | 60      | 51      | 45      | 40      | 36      | 29      |
|                      | 5                                                                                        | M                                                                                         | 0,77                                                                                       | 232                                                                                                              | 155    | 116    | 93      | 77      | 66      | 58      | 52      | 46      | 37      |
|                      | 7                                                                                        | F                                                                                         | 0,92                                                                                       | 275                                                                                                              | 183    | 137    | 110     | 92      | 79      | 69      | 61      | 55      | 44      |
|                      | 8                                                                                        | F                                                                                         | 0,98                                                                                       | 294                                                                                                              | 196    | 147    | 118     | 98      | 84      | 73      | 65      | 59      | 47      |
| ATP303002            | 1.5                                                                                      | XC                                                                                        | 0,57                                                                                       | 170                                                                                                              | 113    | 85     | 68      | 57      | 48      | 42      | 38      | 34      | 27      |
|                      | 3                                                                                        | VC                                                                                        | 0,80                                                                                       | 240                                                                                                              | 160    | 120    | 96      | 80      | 69      | 60      | 53      | 48      | 38      |
|                      | 5                                                                                        | C                                                                                         | 1,03                                                                                       | 310                                                                                                              | 207    | 155    | 124     | 103     | 89      | 77      | 69      | 62      | 50      |
|                      | 7                                                                                        | M                                                                                         | 1,22                                                                                       | 367                                                                                                              | 244    | 183    | 147     | 122     | 105     | 92      | 81      | 73      | 59      |
|                      | 8                                                                                        | M                                                                                         | 1,31                                                                                       | 392                                                                                                              | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 63      |
| ATP3030025           | 1.5                                                                                      | VC                                                                                        | 0,71                                                                                       | 212                                                                                                              | 141    | 106    | 85      | 71      | 61      | 53      | 47      | 42      | 34      |
|                      | 3                                                                                        | C                                                                                         | 1,00                                                                                       | 300                                                                                                              | 200    | 150    | 120     | 100     | 86      | 75      | 67      | 60      | 48      |
|                      | 5                                                                                        | M                                                                                         | 1,29                                                                                       | 387                                                                                                              | 258    | 194    | 155     | 129     | 111     | 97      | 86      | 77      | 62      |
|                      | 7                                                                                        | M                                                                                         | 1,53                                                                                       | 458                                                                                                              | 306    | 229    | 183     | 153     | 131     | 115     | 102     | 92      | 73      |
|                      | 8                                                                                        | M                                                                                         | 1,63                                                                                       | 490                                                                                                              | 327    | 245    | 196     | 163     | 140     | 122     | 109     | 98      | 78      |
| ATP303003            | 1.5                                                                                      | VC                                                                                        | 0,85                                                                                       | 255                                                                                                              | 170    | 127    | 102     | 85      | 73      | 64      | 57      | 51      | 41      |
|                      | 3                                                                                        | C                                                                                         | 1,20                                                                                       | 360                                                                                                              | 240    | 180    | 144     | 120     | 103     | 90      | 80      | 72      | 58      |
|                      | 5                                                                                        | M                                                                                         | 1,55                                                                                       | 465                                                                                                              | 310    | 232    | 186     | 155     | 133     | 116     | 103     | 93      | 74      |
|                      | 7                                                                                        | M                                                                                         | 1,83                                                                                       | 550                                                                                                              | 367    | 275    | 220     | 183     | 157     | 137     | 122     | 110     | 88      |
|                      | 8                                                                                        | M                                                                                         | 1,96                                                                                       | 588                                                                                                              | 392    | 294    | 235     | 196     | 168     | 147     | 131     | 118     | 94      |
| ATP303004            | 1.5                                                                                      | VC                                                                                        | 1,13                                                                                       | 339                                                                                                              | 226    | 170    | 136     | 113     | 97      | 85      | 75      | 68      | 54      |
|                      | 3                                                                                        | C                                                                                         | 1,60                                                                                       | 480                                                                                                              | 320    | 240    | 192     | 160     | 137     | 120     | 107     | 96      | 77      |
|                      | 5                                                                                        | C                                                                                         | 2,07                                                                                       | 620                                                                                                              | 413    | 310    | 248     | 207     | 177     | 155     | 138     | 124     | 99      |
|                      | 7                                                                                        | M                                                                                         | 2,44                                                                                       | 733                                                                                                              | 489    | 367    | 293     | 244     | 209     | 183     | 163     | 147     | 117     |
|                      | 8                                                                                        | M                                                                                         | 2,61                                                                                       | 784                                                                                                              | 523    | 392    | 314     | 261     | 224     | 196     | 174     | 157     | 125     |
| ATP303005            | 1.5                                                                                      | VC                                                                                        | 1,41                                                                                       | 424                                                                                                              | 283    | 212    | 170     | 141     | 121     | 106     | 94      | 85      | 68      |
|                      | 3                                                                                        | C                                                                                         | 2,00                                                                                       | 600                                                                                                              | 400    | 300    | 240     | 200     | 171     | 150     | 133     | 120     | 96      |
|                      | 5                                                                                        | C                                                                                         | 2,58                                                                                       | 775                                                                                                              | 516    | 387    | 310     | 258     | 221     | 194     | 172     | 155     | 124     |
|                      | 7                                                                                        | M                                                                                         | 3,06                                                                                       | 917                                                                                                              | 611    | 458    | 367     | 306     | 262     | 229     | 204     | 183     | 147     |
|                      | 8                                                                                        | M                                                                                         | 3,27                                                                                       | 980                                                                                                              | 653    | 490    | 392     | 327     | 280     | 245     | 218     | 196     | 157     |
| ATP303006            | 1.5                                                                                      | XC                                                                                        | 1,70                                                                                       | 509                                                                                                              | 339    | 255    | 204     | 170     | 145     | 127     | 113     | 102     | 81      |
|                      | 3                                                                                        | VC                                                                                        | 2,40                                                                                       | 720                                                                                                              | 480    | 360    | 288     | 240     | 206     | 180     | 160     | 144     | 115     |
|                      | 5                                                                                        | VC                                                                                        | 3,10                                                                                       | 930                                                                                                              | 620    | 465    | 372     | 310     | 266     | 232     | 207     | 186     | 149     |
|                      | 7                                                                                        | C                                                                                         | 3,67                                                                                       | 1100                                                                                                             | 733    | 550    | 440     | 367     | 314     | 275     | 244     | 220     | 176     |
|                      | 8                                                                                        | C                                                                                         | 3,92                                                                                       | 1176                                                                                                             | 784    | 588    | 470     | 392     | 336     | 294     | 261     | 235     | 188     |
| ATP303008            | 1.5                                                                                      | XC                                                                                        | 2,26                                                                                       | 679                                                                                                              | 453    | 339    | 272     | 226     | 194     | 170     | 151     | 136     | 109     |
|                      | 3                                                                                        | XC                                                                                        | 3,20                                                                                       | 960                                                                                                              | 640    | 480    | 384     | 320     | 274     | 240     | 213     | 192     | 154     |
|                      | 5                                                                                        | VC                                                                                        | 4,13                                                                                       | 1239                                                                                                             | 826    | 620    | 496     | 413     | 354     | 310     | 275     | 248     | 198     |
|                      | 7                                                                                        | C                                                                                         | 4,89                                                                                       | 1466                                                                                                             | 978    | 733    | 587     | 489     | 419     | 367     | 326     | 293     | 235     |
|                      | 8                                                                                        | C                                                                                         | 5,23                                                                                       | 1568                                                                                                             | 1045   | 784    | 627     | 523     | 448     | 392     | 348     | 314     | 251     |

|  | DIMENSIONE DELLE GOCCE<br>DROP SIZE RATING<br>DIMENSIONES DE LAS GOTAS |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| F                                                                                   | Fine-Fine-Fina                                                         |
| M                                                                                   | Media-Medium-Media                                                     |
| C                                                                                   | Grossa-Coarse-Gruesa                                                   |
| VC                                                                                  | Molto grossa-Very coarse-Muy gruesa                                    |
| XC                                                                                  | Estremamente grossa-Extremely coarse-Extremadamente gruesa             |

Classificazione in accordo con lo  
standard ASABE S572.3 e la norma  
ISO25358

Classification according to ASABE  
S572.3 and ISO25358

Clasificación según ASABE S572.3 e  
ISO25358

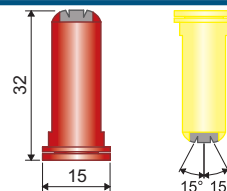




**Utilizzo  
Use  
Utilización**



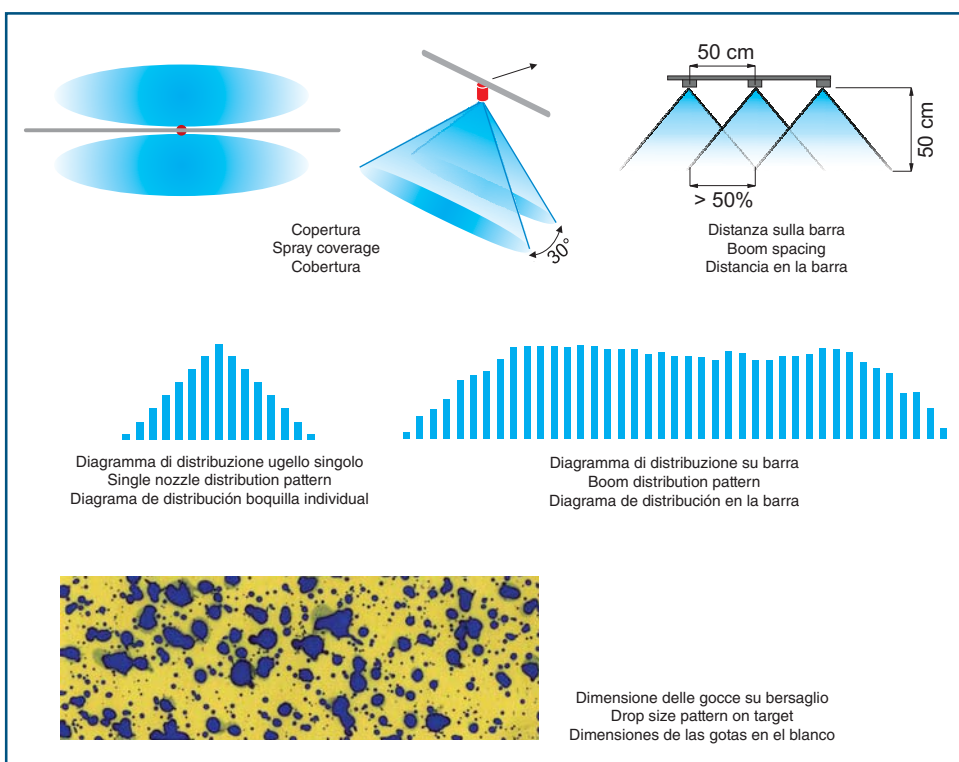
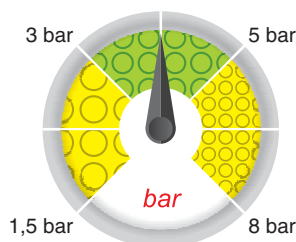
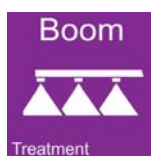
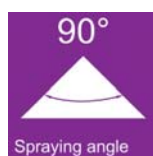
**Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)**



- La struttura suddivisa in tre pezzi consente una pulizia ottimale dell'ugello.
- Offrono una buona copertura, migliorando la penetrazione ed il deposito dei prodotti.
- Gli ugelli Twin Fan Air hanno la stessa portata degli ugelli Twin Fan Standard, ma le goccioline più grandi garantiscono la riduzione della deriva.
- Ugello a doppia uscita in un solo corpo.
- Adatto per essere utilizzato su barre per trattamenti di patate, cipolle e cereali.
- La filtrazione dev'essere calcolata dividendo a metà quella di un ugello standard.
- Stampato in Delrin®, ad alta stabilità chimica, che conferisce ottime caratteristiche di durata.
- Certificato ZNT.

- Their three-piece structure allows for easier cleaning operations.
- They ensure a good coverage and enhance product penetration and settling.
- Twin Fan Air nozzles have the same rate as Twin Fan Standard nozzles but spray larger drops and therefore ensure reduced drift.
- Twin nozzles - two spraying points in one body.
- Suitable for boom spraying, especially onto potatoes, onions and grains.
- Filtration should be half the value of a standard nozzle.
- Made of molded Delrin®, a polymer ensuring high chemical stability and an exceptionally long useful life.
- ZNT certified.

- La estructura subdividida en tres piezas permite una limpieza óptima de la boquilla.
- Ofrecen una buena cobertura, mejorando la penetración y el depósito de los productos.
- Las boquillas Twin Fan Air tienen el mismo caudal de las boquillas Twin Fan Standard, pero las gotas más grandes garantizan la reducción de la deriva.
- Boquilla de doble salida en un solo cuerpo.
- Adecuada para utilizar en barras para tratamientos de papas, cebollas y cereales.
- El filtrado se debe calcular dividiendo a la mitad el de una boquilla estándar.
- Moldeado en Delrin®, material con alta estabilidad química, que otorga excepcionales características de duración.
- Certificado ZNT.



| COD.<br>CODE<br>CÓD. |  |  |  | l/ha (spazio tra gli ugelli: 50 cm)<br>l/ha (nozzle spacing: 50 cm)<br>l/ha (espacio entre las boquillas: 50 cm) |        |        |         |         |         |         |         |         |         |
|----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
|                      | bar                                                                               | drop                                                                              | l/min                                                                             | 4 km/h                                                                                                           | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h | 25 km/h |
|                      |                                                                                   |                                                                                   |                                                                                   |                                                                                                                  |        |        |         |         |         |         |         |         |         |
| TFA11002             | 1.5                                                                               | XC                                                                                | 0.57                                                                              | 170                                                                                                              | 113    | 85     | 68      | 57      | 48      | 42      | 38      | 34      | 27      |
|                      | 2                                                                                 | XC                                                                                | 0.65                                                                              | 196                                                                                                              | 131    | 98     | 78      | 65      | 56      | 49      | 44      | 39      | 31      |
|                      | 3                                                                                 | VC                                                                                | 0.80                                                                              | 240                                                                                                              | 160    | 120    | 96      | 80      | 69      | 60      | 53      | 48      | 38      |
|                      | 4                                                                                 | C                                                                                 | 0.92                                                                              | 277                                                                                                              | 185    | 139    | 111     | 92      | 79      | 69      | 62      | 55      | 44      |
|                      | 6                                                                                 | C                                                                                 | 1.13                                                                              | 339                                                                                                              | 226    | 170    | 136     | 113     | 97      | 85      | 75      | 68      | 54      |
| TFA110025            | 8                                                                                 | M                                                                                 | 1.31                                                                              | 392                                                                                                              | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 63      |
|                      | 1.5                                                                               | UC                                                                                | 0.71                                                                              | 212                                                                                                              | 141    | 106    | 85      | 71      | 61      | 53      | 47      | 42      | 34      |
|                      | 2                                                                                 | UC                                                                                | 0.82                                                                              | 245                                                                                                              | 163    | 122    | 98      | 82      | 70      | 61      | 54      | 49      | 39      |
|                      | 3                                                                                 | XC                                                                                | 1.00                                                                              | 300                                                                                                              | 200    | 150    | 120     | 100     | 86      | 75      | 67      | 60      | 48      |
|                      | 4                                                                                 | XC                                                                                | 1.15                                                                              | 346                                                                                                              | 231    | 173    | 139     | 115     | 99      | 87      | 77      | 69      | 55      |
| TFA11003             | 6                                                                                 | C                                                                                 | 1.41                                                                              | 424                                                                                                              | 283    | 212    | 170     | 141     | 121     | 106     | 94      | 85      | 68      |
|                      | 8                                                                                 | C                                                                                 | 1.63                                                                              | 490                                                                                                              | 327    | 245    | 196     | 163     | 140     | 122     | 109     | 98      | 78      |
|                      | 1.5                                                                               | UC                                                                                | 0.85                                                                              | 255                                                                                                              | 170    | 127    | 102     | 85      | 73      | 64      | 57      | 51      | 41      |
|                      | 2                                                                                 | XC                                                                                | 0.98                                                                              | 294                                                                                                              | 196    | 147    | 118     | 98      | 84      | 73      | 65      | 59      | 47      |
|                      | 3                                                                                 | XC                                                                                | 1.20                                                                              | 360                                                                                                              | 240    | 180    | 144     | 120     | 103     | 90      | 80      | 72      | 58      |
| TFA11004             | 4                                                                                 | XC                                                                                | 1.39                                                                              | 416                                                                                                              | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 67      |
|                      | 6                                                                                 | C                                                                                 | 1.70                                                                              | 509                                                                                                              | 339    | 255    | 204     | 170     | 145     | 127     | 113     | 102     | 81      |
|                      | 8                                                                                 | C                                                                                 | 1.96                                                                              | 588                                                                                                              | 392    | 294    | 235     | 196     | 168     | 147     | 131     | 118     | 94      |
|                      | 1.5                                                                               | UC                                                                                | 1.13                                                                              | 339                                                                                                              | 226    | 170    | 136     | 113     | 97      | 85      | 75      | 68      | 54      |
|                      | 2                                                                                 | UC                                                                                | 1.31                                                                              | 392                                                                                                              | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 63      |
| TFA11005             | 3                                                                                 | XC                                                                                | 1.60                                                                              | 480                                                                                                              | 320    | 240    | 192     | 160     | 137     | 120     | 107     | 96      | 77      |
|                      | 4                                                                                 | XC                                                                                | 1.85                                                                              | 554                                                                                                              | 370    | 277    | 222     | 185     | 158     | 139     | 123     | 111     | 89      |
|                      | 6                                                                                 | VC                                                                                | 2.26                                                                              | 679                                                                                                              | 453    | 339    | 272     | 226     | 194     | 170     | 151     | 136     | 109     |
|                      | 8                                                                                 | C                                                                                 | 2.61                                                                              | 784                                                                                                              | 523    | 392    | 314     | 261     | 224     | 196     | 174     | 157     | 125     |
|                      | 1.5                                                                               | XC                                                                                | 1.41                                                                              | 424                                                                                                              | 283    | 212    | 170     | 141     | 121     | 106     | 94      | 85      | 68      |
| TFA11005             | 2                                                                                 | XC                                                                                | 1.63                                                                              | 490                                                                                                              | 327    | 245    | 196     | 163     | 140     | 122     | 109     | 98      | 78      |
|                      | 3                                                                                 | VC                                                                                | 2.00                                                                              | 600                                                                                                              | 400    | 300    | 240     | 200     | 171     | 150     | 133     | 120     | 96      |
|                      | 4                                                                                 | C                                                                                 | 2.31                                                                              | 693                                                                                                              | 462    | 346    | 277     | 231     | 198     | 173     | 154     | 139     | 111     |
|                      | 6                                                                                 | C                                                                                 | 2.83                                                                              | 849                                                                                                              | 566    | 424    | 339     | 283     | 242     | 212     | 189     | 170     | 136     |
|                      | 8                                                                                 | C                                                                                 | 3.27                                                                              | 980                                                                                                              | 653    | 490    | 392     | 327     | 280     | 245     | 218     | 196     | 157     |

|  | DIMENSIONE DELLE GOCCE<br>DROP SIZE RATING<br>DIMENSIONES DE LAS GOTAS |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| M                                                                                   | Media-Medium-Media                                                     |
| C                                                                                   | Grossa-Coarse-Gruesa                                                   |
| VC                                                                                  | Molto grossa-Very coarse-Muy gruesa                                    |
| XC                                                                                  | Estremamente grossa-Extremely coarse-Extremadamente gruesa             |
| UC                                                                                  | Ultra grossa- Ultra coarse-Ultra gruesa                                |

Classificazione in accordo con lo  
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ISO25358

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S572.3 and ISO25358

Clasificación según ASABE S572.3 e  
ISO25358

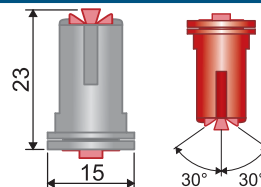




Utilizzo  
Use  
Utilización



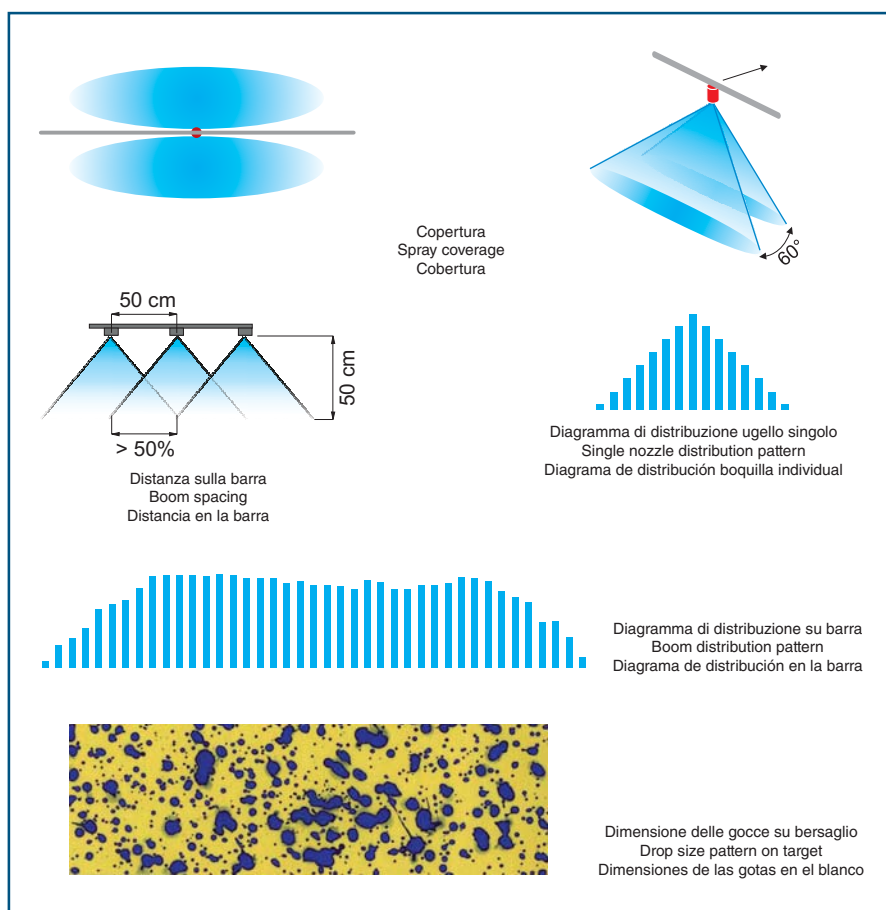
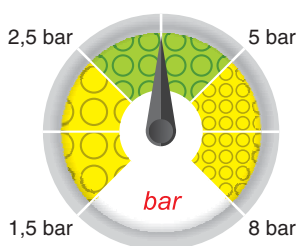
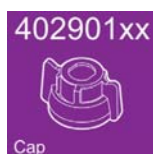
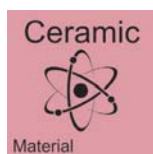
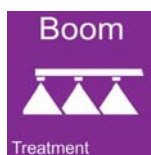
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



- Adatto per trattamenti con erbicidi, fungicidi ed insetticidi: efficace su barre per trattamenti di ortaggi e cereali.
- L'inclinazione del getto permette una migliore penetrazione e deposito del prodotto sulla vegetazione, operando in modo eccellente sulla zona interessata.
- L'azione combinata di iniezione d'aria/doppio ventaglio permette un'elevata riduzione della deriva pur mantenendo una buona copertura.
- Il corpo esterno compatto (23 mm di altezza) in Delrin®, unito all'inserto in ceramica ASJ conferisce eccezionali caratteristiche di durata.
- Doppia presa d'aria di grandi dimensioni con profilo anti-intasamento.
- Completamente smontabile per una facile manutenzione.
- Riduzione della deriva fino ad un massimo del 90%.

- Suitable for spraying herbicides, fungicides and pesticides with booms on vegetables and cereals.
- Spraying angle ensures improved penetration and deposit of the product on vegetation, thereby efficiently working on the sprayed area.
- The combined action of air injection and twin fan allows a considerable decrease of drift, yet ensuring a good coverage.
- The compact external body (23 mm high) in Delrin® and the ASJ ceramic insert ensure exceptional long life.
- Large double air inlet with anti-clogging profile.
- They can be fully removed for easier service.
- Drift reduction up to a maximum of 90%.

- Adecuado para tratamientos con herbicidas, fungicidas e insecticidas: eficiente para tratamientos con barras en hortalizas y cereales.
- La inclinación del chorro permite una mejor penetración y depósito del producto en la vegetación, operando de manera excelente en la zona interesada.
- La acción combinada de inyección de aire/doble abanico permite una elevada reducción de la deriva, manteniendo una buena cobertura.
- El cuerpo exterior compacto (23 mm de altura) de Delrin®, junto al inserto de cerámica ASJ, le otorga una excelente durabilidad.
- Doble toma de aire de grandes dimensiones con perfil anti-atascamiento.
- Completamente desmontable para un fácil mantenimiento.
- Reducción de la deriva hasta un máximo de 90%.



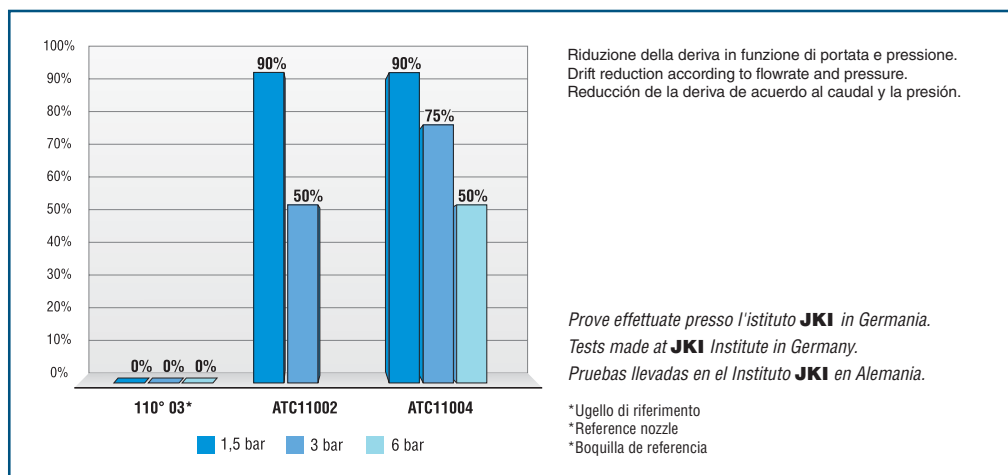
| COD.<br>CODE<br>CÓD. | <br>bar | <br>drop | <br>l/min | l/ha (spazio tra gli ugelli: 50 cm)<br>l/ha (nozzle spacing: 50 cm)<br>l/ha (espacio entre las boquillas: 50 cm) |        |        |         |         |         |         |         |         |         |
|----------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
|                      |                                                                                          |                                                                                           |                                                                                            | 4 km/h                                                                                                           | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h | 25 km/h |
|                      |                                                                                          |                                                                                           |                                                                                            |                                                                                                                  |        |        |         |         |         |         |         |         |         |
|                      |                                                                                          |                                                                                           |                                                                                            |                                                                                                                  |        |        |         |         |         |         |         |         |         |
| ATC110015            | 1.5                                                                                      | XC                                                                                        | 0.42                                                                                       | 127                                                                                                              | 85     | 64     | 51      | 42      | 36      | 32      | 28      | 25      | 20      |
|                      | 3                                                                                        | C                                                                                         | 0.60                                                                                       | 180                                                                                                              | 120    | 90     | 72      | 60      | 51      | 45      | 40      | 36      | 29      |
|                      | 4                                                                                        | C                                                                                         | 0.69                                                                                       | 208                                                                                                              | 139    | 104    | 83      | 69      | 59      | 52      | 46      | 42      | 33      |
|                      | 6                                                                                        | M                                                                                         | 0.85                                                                                       | 255                                                                                                              | 170    | 127    | 102     | 85      | 73      | 64      | 57      | 51      | 41      |
|                      | 8                                                                                        | M                                                                                         | 0.98                                                                                       | 294                                                                                                              | 196    | 147    | 118     | 98      | 84      | 73      | 65      | 59      | 47      |
| ATC11002             | 1.5                                                                                      | XC                                                                                        | 0.57                                                                                       | 170                                                                                                              | 113    | 85     | 68      | 57      | 48      | 42      | 38      | 34      | 27      |
|                      | 3                                                                                        | VC                                                                                        | 0.80                                                                                       | 240                                                                                                              | 160    | 120    | 96      | 80      | 69      | 60      | 53      | 48      | 38      |
|                      | 4                                                                                        | C                                                                                         | 0.92                                                                                       | 277                                                                                                              | 185    | 139    | 111     | 92      | 79      | 69      | 62      | 55      | 44      |
|                      | 6                                                                                        | M                                                                                         | 1.13                                                                                       | 339                                                                                                              | 226    | 170    | 136     | 113     | 97      | 85      | 75      | 68      | 54      |
|                      | 8                                                                                        | M                                                                                         | 1.31                                                                                       | 392                                                                                                              | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 63      |
| ATC110025            | 1.5                                                                                      | XC                                                                                        | 0.71                                                                                       | 212                                                                                                              | 141    | 106    | 85      | 71      | 61      | 53      | 47      | 42      | 34      |
|                      | 3                                                                                        | C                                                                                         | 1.00                                                                                       | 300                                                                                                              | 200    | 150    | 120     | 100     | 86      | 75      | 67      | 60      | 48      |
|                      | 4                                                                                        | C                                                                                         | 1.15                                                                                       | 346                                                                                                              | 231    | 173    | 139     | 115     | 99      | 87      | 77      | 69      | 55      |
|                      | 6                                                                                        | M                                                                                         | 1.41                                                                                       | 424                                                                                                              | 283    | 212    | 170     | 141     | 121     | 106     | 94      | 85      | 68      |
|                      | 8                                                                                        | M                                                                                         | 1.63                                                                                       | 490                                                                                                              | 327    | 245    | 196     | 163     | 140     | 122     | 109     | 98      | 78      |
| ATC11003             | 1.5                                                                                      | VC                                                                                        | 0.85                                                                                       | 255                                                                                                              | 170    | 127    | 102     | 85      | 73      | 64      | 57      | 51      | 41      |
|                      | 3                                                                                        | C                                                                                         | 1.20                                                                                       | 360                                                                                                              | 240    | 180    | 144     | 120     | 103     | 90      | 80      | 72      | 58      |
|                      | 4                                                                                        | C                                                                                         | 1.39                                                                                       | 416                                                                                                              | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 67      |
|                      | 6                                                                                        | M                                                                                         | 1.70                                                                                       | 509                                                                                                              | 339    | 255    | 204     | 170     | 145     | 127     | 113     | 102     | 81      |
|                      | 8                                                                                        | M                                                                                         | 1.96                                                                                       | 588                                                                                                              | 392    | 294    | 235     | 196     | 168     | 147     | 131     | 118     | 94      |
| ATC11004             | 1.5                                                                                      | XC                                                                                        | 1.13                                                                                       | 339                                                                                                              | 226    | 170    | 136     | 113     | 97      | 85      | 75      | 68      | 54      |
|                      | 3                                                                                        | VC                                                                                        | 1.60                                                                                       | 480                                                                                                              | 320    | 240    | 192     | 160     | 137     | 120     | 107     | 96      | 77      |
|                      | 4                                                                                        | C                                                                                         | 1.85                                                                                       | 554                                                                                                              | 370    | 277    | 222     | 185     | 158     | 139     | 123     | 111     | 89      |
|                      | 6                                                                                        | C                                                                                         | 2.26                                                                                       | 679                                                                                                              | 453    | 339    | 272     | 226     | 194     | 170     | 151     | 136     | 109     |
|                      | 8                                                                                        | M                                                                                         | 2.61                                                                                       | 784                                                                                                              | 523    | 392    | 314     | 261     | 224     | 196     | 174     | 157     | 125     |
| ATC11005             | 1.5                                                                                      | VC                                                                                        | 1.41                                                                                       | 424                                                                                                              | 283    | 212    | 170     | 141     | 121     | 106     | 94      | 85      | 68      |
|                      | 3                                                                                        | C                                                                                         | 2.00                                                                                       | 600                                                                                                              | 400    | 300    | 240     | 200     | 171     | 150     | 133     | 120     | 96      |
|                      | 4                                                                                        | C                                                                                         | 2.31                                                                                       | 693                                                                                                              | 462    | 346    | 277     | 231     | 198     | 173     | 154     | 139     | 111     |
|                      | 6                                                                                        | M                                                                                         | 2.83                                                                                       | 849                                                                                                              | 566    | 424    | 339     | 283     | 242     | 212     | 189     | 170     | 136     |
|                      | 8                                                                                        | M                                                                                         | 3.27                                                                                       | 980                                                                                                              | 653    | 490    | 392     | 327     | 280     | 245     | 218     | 196     | 157     |
| ATC11006             | 1.5                                                                                      | C                                                                                         | 1.70                                                                                       | 509                                                                                                              | 339    | 255    | 204     | 170     | 145     | 127     | 113     | 102     | 81      |
|                      | 3                                                                                        | C                                                                                         | 2.40                                                                                       | 720                                                                                                              | 480    | 360    | 288     | 240     | 206     | 180     | 160     | 144     | 115     |
|                      | 4                                                                                        | M                                                                                         | 2.77                                                                                       | 831                                                                                                              | 554    | 416    | 333     | 277     | 238     | 208     | 185     | 166     | 133     |
|                      | 6                                                                                        | M                                                                                         | 3.39                                                                                       | 1.018                                                                                                            | 679    | 509    | 407     | 339     | 291     | 255     | 226     | 204     | 163     |
|                      | 8                                                                                        | M                                                                                         | 3.92                                                                                       | 1.176                                                                                                            | 784    | 588    | 470     | 392     | 336     | 294     | 261     | 235     | 188     |

|  | DIMENSIONE DELLE GOCCE<br>DROP SIZE RATING<br>DIMENSIONES DE LAS GOTAS |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|
|                                                                                     | <b>M</b> Media-Medium-Media                                            |
|                                                                                     | <b>C</b> Grossa-Coarse-Gruesa                                          |
|                                                                                     | <b>VC</b> Molto grossa-Very coarse-Muy gruesa                          |
|                                                                                     | <b>XC</b> Estremamente grossa-Extremely coarse-Extremadamente gruesa   |

Classificazione in accordo con lo  
standard ASABE S572.3 e la norma  
ISO25358

Classification according to ASABE  
S572.3 and ISO25358

Clasificación según ASABE S572.3 e  
ISO25358



## UGELLI A CONO

Gli ugelli a cono sono caratterizzati da un getto a forma conica. All'interno, fra convogliatore e piastrina con foro calibrato c'è uno spazio vuoto detto "camera di turbolenza" di forma cilindrica o conica.

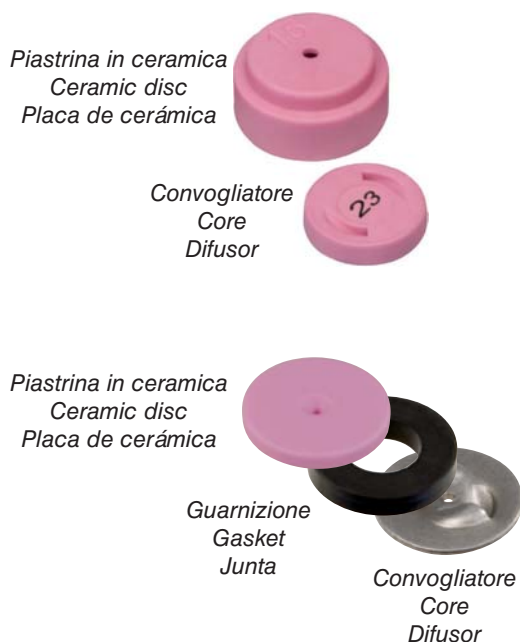
Il convogliatore è composto da uno o più canali obliqui che sfociano nella camera di turbolenza imprimendo un moto rotatorio al liquido prima di fuoriuscire dalla piastrina. Le caratteristiche del getto prodotto variano in funzione della dimensione della camera di turbolenza.

Negli ugelli di tipo tradizionale, con piastrina e convogliatore separati, la distanza fra i due elementi è in genere data da una guarnizione in gomma che può venire più o meno compressa durante il montaggio dell'ugello. La variazione della distanza fra convogliatore e piastrina genera, però, una variazione dell'angolo di apertura del getto causando una polverizzazione irregolare del prodotto distribuito. Un'altra possibile causa di fuoriuscita irregolare del prodotto è dovuta ad un errato abbinamento delle dimensioni di convogliatore e piastrina.

Per eliminare tutti questi inconvenienti è stato progettato l'ugello che contenga tutte le parti, correttamente dimensionate e posizionate. In questo modo è possibile ottenere angolo di trattamento e portata precisi.

## ESEMPI DI UGELLI A CONO

Ugello a cono composto da convogliatore e piastrina.



## CONE NOZZLES

Cone nozzles produce a cone-shaped jet. These nozzles have a parallel or conical hollow space called 'turbulence chamber' between the conveying unit and the disc.

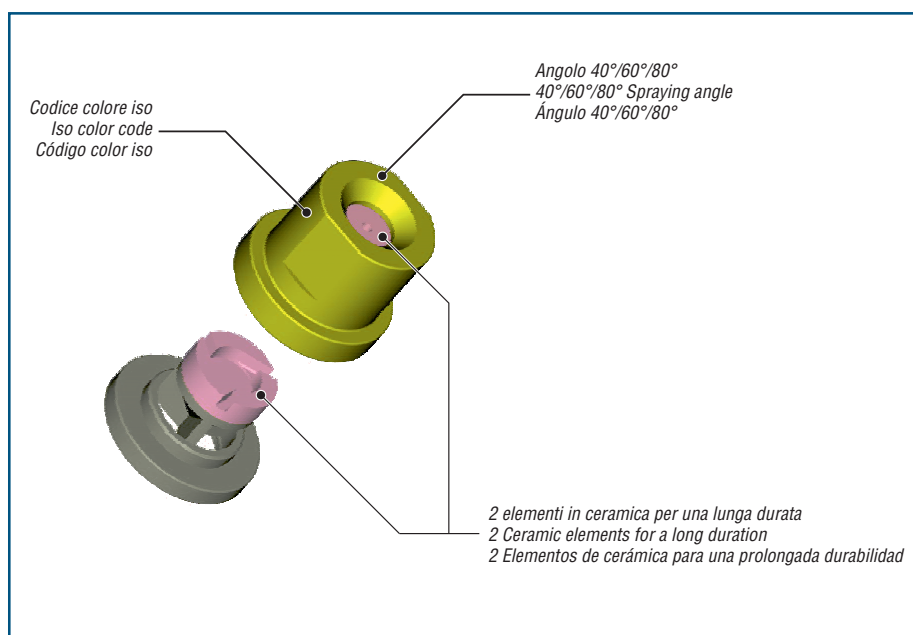
The core consists of one or more angled channels leading into the turbulence chamber and giving a rotatory motion to the fluid before it comes out from the disc. Nozzle jet features depend on turbulence chamber size.

Classic nozzles have separate core and disc which are usually spaced by a rubber gasket to be compressed at different degrees during nozzle installation. Different spacing values between core and plate cause different jet opening angles, which in turn cause irregular product spraying. Another possible cause for irregular product spraying is a wrong core-disc size matching.

To solve all these problems, a nozzle including all properly sized and positioned parts has been developed. Therefore, it ensures accurate spraying angles and flow rates.

## EXAMPLES OF CONE NOZZLES

Cone nozzle consisting of conveying unit and disc.



## BOQUILLAS DE CONO

Las boquillas de cono se caracterizan por un chorro en forma cónica. En el interior, entre conducto y placa con orificio calibrado hay un espacio vacío llamado "cámara de turbulencia" de forma cilíndrica o cónica.

El conducto está compuesto por uno o más canales oblicuos que desembocan en al cámara de turbulencia imprimiendo un movimiento rotatorio al líquido antes de salir de la placa. Las características del chorro producido varían en base a la dimensión de la cámara de turbulencia.

En las boquillas de tipo tradicional, con placa y conductor separados, la distancia entre los dos elementos en general es determinada por una junta de goma que puede ser más o menos comprimida durante el montaje de la boquilla. Sin embargo, la variación de la distancia entre conductor y placa genera una variación del ángulo de apertura del chorro, causando una pulverización irregular del producto distribuido. Otra causa posible de salida irregular del producto se debe a una combinación incorrecta de las dimensiones de conductor y placa.

Para eliminar todos estos inconvenientes ha sido diseñada la boquilla que contenga todas las partes, correctamente dimensionadas y posicionadas. De esta manera es posible obtener un ángulo de tratamiento y caudal precisos.

## EJEMPLOS DE BOQUILLAS EN CONO

Boquilla de cono compuesta por conductor y placa.

## UGELLI A CONO VUOTO

Gli ugelli a cono vuoto, chiamati Hollowcone, lasciano una traccia al suolo di forma circolare nella cui parte interna si collocano delle gocce con diametri 2-3 volte più piccoli di quelle presenti all'esterno. L'angolo di uscita è generalmente compreso tra i 40° e gli 80° mentre il diagramma di distribuzione presenta una depressione più consistente nella parte centrale.



Hollowcone  
Ceramic ISO 80°



Traccia al suolo  
Ground pattern  
Trazado en el suelo

Questi tipi di ugelli possono essere utilizzati sia sulle irroratrici a barre che sugli atomizzatori.

These nozzles can be installed both on spraying booms and orchard blowers.

## HOLLOW CONE NOZZLE

Hollowcone nozzles produce a crown ground pattern with inner drops having a diameter which is 2-3 times smaller than the diameter of outer drops. Their spraying angle is usually between 40° and 80°, whereas their spraying diagram shows a deeper depression in its central section.

## BOQUILLAS DE CONO VACÍO

Las boquillas de cono vacío, llamadas Hollowcone, dejan una trazado en el suelo en forma circular en cuyo interior se colocan gotas con diámetros 2-3 veces más pequeñas que las presentes en el exterior. El ángulo de rociado generalmente está comprendido entre los 40° y los 80°, mientras el diagrama de distribución presenta una depresión más consistente en la parte central.

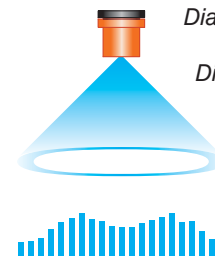
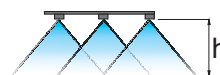


Diagramma di distribuzione  
Spraying diagram  
Diagrama de distribución

Estos tipos de boquillas se pueden utilizar en las pulverizadoras de barras y en los atomizadores.

|    | Angle |      |      |
|----|-------|------|------|
|    | 40°   | 60°  | 80°  |
| cm |       | cm   |      |
| 30 | 51.5  | 32.4 | 22.3 |
| 32 | 54.9  | 34.6 | 23.8 |
| 34 | 58.4  | 36.8 | 25.3 |
| 36 | 61.8  | 38.9 | 26.8 |
| 38 | 65.2  | 41.1 | 28.3 |
| 40 | 68.7  | 43.3 | 29.7 |
| 42 | 72.1  | 45.4 | 31.2 |
| 44 | 75.5  | 47.6 | 32.7 |
| 46 | 79.0  | 49.7 | 34.2 |
| 48 | 82.4  | 51.9 | 35.7 |
| 50 | 85.8  | 54.1 | 37.2 |
| 52 | 89.3  | 56.3 | 38.7 |



Corretta altezza di  
posizionamento dal bersaglio  
degli ugelli a cono (h)

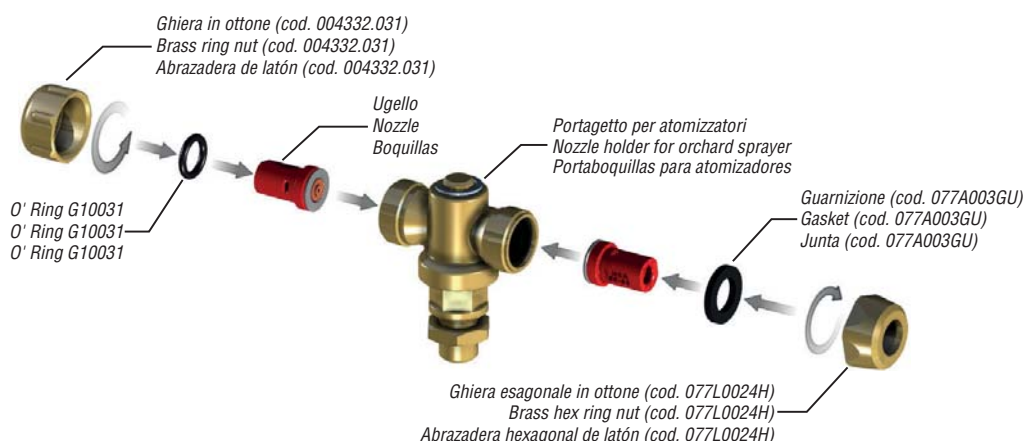
Correct height of cone nozzles  
from the target (h)

Correcta altura de  
posicionamiento del objetivo  
de las boquillas de cono (h)

## CORRETTO MONTAGGIO DEGLI UGELLI HCC, HCI e HCA SU PORTAGETTI IN OTTONE

## CORRECT ASSEMBLY OF THE HCC, HCI, AND HCA NOZZLES ON THE BRASS NOZZLE HOLDER

## CORRECTO MONTAJE DE LAS BOQUILLAS HCC, HCI y HCA EN PORTA-BOQUILLA DE LATÓN



La coppia di serraggio consigliata va dai 5 ai 10 Nm. Questo dato si riferisce solamente all'utilizzo di una ghiera filettata e non a quello di una testina con attacco rapido.

The suggested torque ranges from 5 to 10 Nm. This refers only to the use of a threaded ring nut and not to that of a quick fitting nozzle cap.

El par de apriete recomendado varía de 5 a 10 Nm. Este dato se refiere solamente al uso de una abrazadera roscada y no al de un cabezal con acople rápido.

## CONFRONTO UGELLI 80° - 60° - 40°

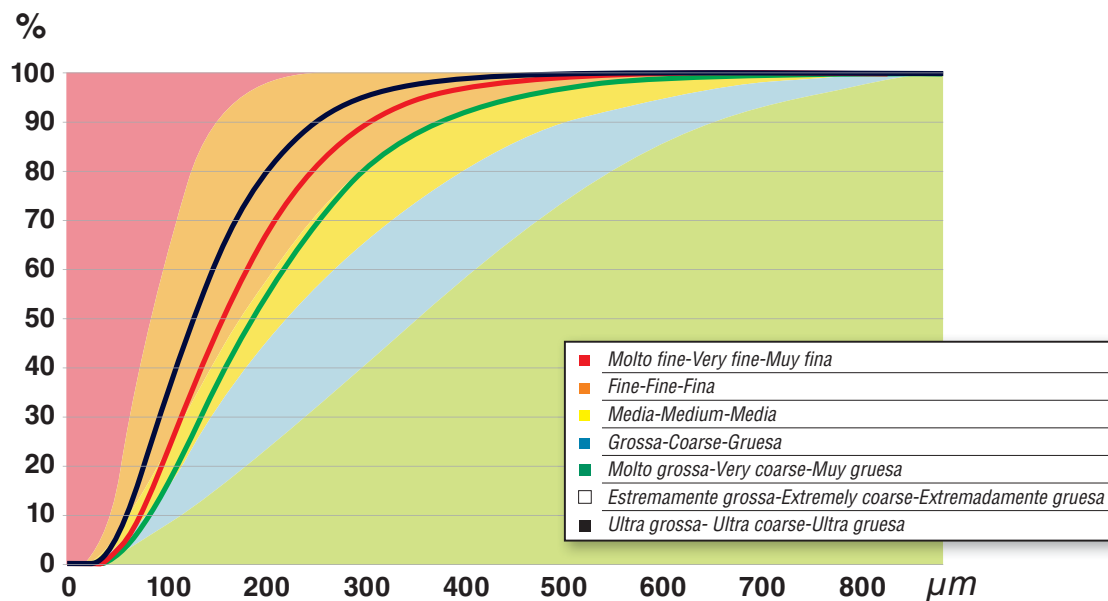
I dati del grafico si riferiscono all'ugello con portata ISO 035 alla pressione di 3 bar. Dal grafico è possibile notare che l'ugello HCI 40 genera una polverizzazione avente una minor quantità di gocce piccole, sensibili alla deriva. Nello stesso tempo la dimensione delle gocce più grandi non aumenta, riducendo il dilavamento sulla superficie fogliare.

## COMPARISON BETWEEN 80° - 60° - 40° NOZZLES

Chart data refer to ISO 035 nozzle at 3 bars. Diagram also shows that HCI 40 nozzle spray includes a lower amount of droplets prone to drift. At the same time, bigger drop size does not increase and therefore leaf surface washout is reduced.

## COMPARACIÓN BOQUILLAS 80° - 60° - 40°

Los datos del gráfico se refieren a la boquilla con caudal ISO 035 a una presión de 3 bar. En el gráfico se puede observar que la boquilla HCI 40 genera una pulverización con una cantidad menor de gotas pequeñas, sensibles a la deriva. Al mismo tiempo la dimensión de las gotas más grandes no aumenta, reduciendo la precipitación sobre la superficie de las hojas.



| COD.     |       | % Diametro goccia*<br>% Drop diameter*<br>% Diámetro gota* |        |        |
|----------|-------|------------------------------------------------------------|--------|--------|
|          |       | D10                                                        | D50    | D90    |
| HCI40035 | 3 bar | 90 μm                                                      | 204 μm | 412 μm |
| HCI60035 |       | 80 μm                                                      | 172 μm | 335 μm |
| HCI80035 |       | 65 μm                                                      | 139 μm | 275 μm |

\*D10/50/90= il 10/50/90 % del liquido erogato ha gocce con diametro minore o uguale alla misura indicata in tabella.

\*D10/50/90= 10/50/90% of the sprayed fluid has drops with a diameter below or equal to the given value.

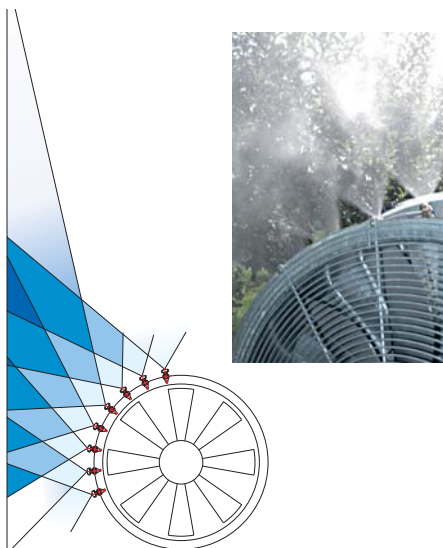
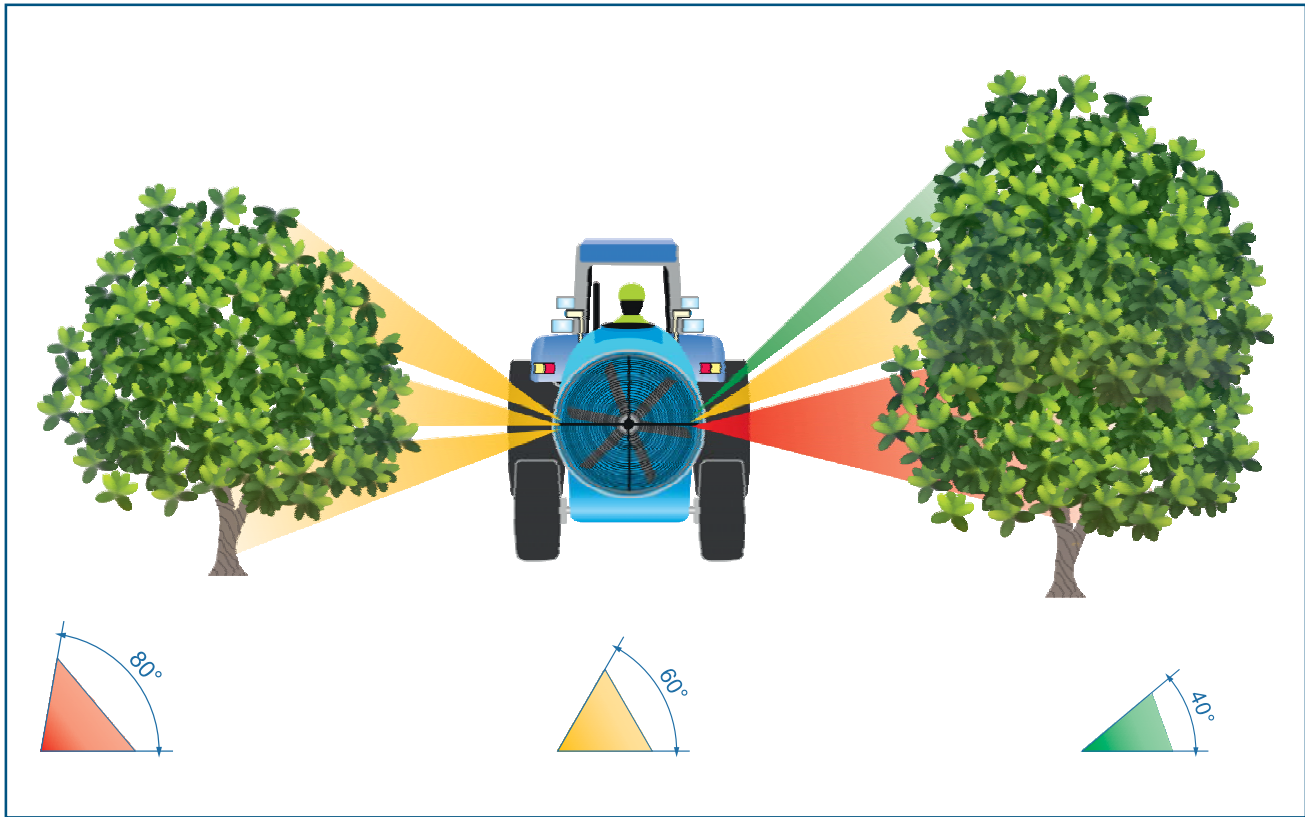
\*D10/50/90= el 10/50/90 % del líquido erogado tiene gotas con diámetro menor o igual a la medida indicada en la tabla.



## SCELTA DELL'ANGOLO DI SPRUZZO IN FUNZIONE DELLA DISTANZA DALLA VEGETAZIONE

## CHOICE OF SPRAYING ANGLE DEPENDING ON DISTANCE TO THE VEGETATION

## SELECCIÓN DEL ÁNGULO DE CHORRO SEGÚN LA DISTANCIA DE LA VEGETACIÓN



*Hollowcone Ceramic ISO 80°*

- Minor sovrapposizione dei getti.
- Lo spruzzo dell'ugello rimane nella larghezza del flusso dell'aria e viene interamente convogliato sul bersaglio, riducendo lo spreco di prodotto.



*Hollowcone Ceramic ISO 60°*

- Lower jet overlapping.
- Nozzle jet is within air flow width and fully hits the target, thus reducing product waste.



*Hollowcone Ceramic ISO 40°*

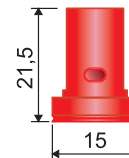
- Menor superposición de los chorros.
- El rociado de la boquilla queda en la anchura del flujo del aire y es llevado completamente al objetivo, reduciendo el derroche de producto.



## Utilizzo Use Utilización



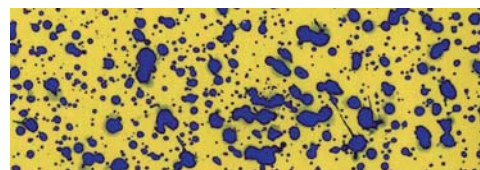
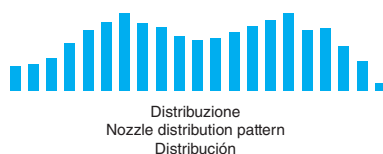
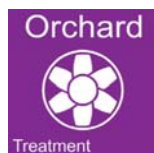
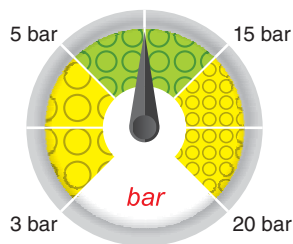
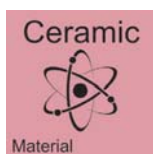
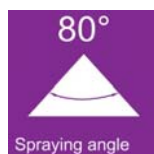
## Dimensioni (mm) Size (mm) Dimensiones (mm)



- Ugello a cono vuoto con inserto in ceramica e corpo in Delrin®.
- Il getto creato da HCA80 garantisce una copertura ottimale pur riducendo il rischio di deriva del prodotto.
- Adatto per l'utilizzo su atomizzatore.
- Il corpo esterno stampato in Delrin®, unito all'inserto in ceramica conferisce eccezionali caratteristiche di durata.
- Adatto per trattamenti con erbicidi, fungicidi ed insetticidi.

- Hollowcone nozzle with ceramic insert and Delrin® body.
- HCA80 spray ensures excellent spraying range, yet reducing the product drift.
- Suitable for orchard sprayer.
- Their Delrin®-molded outer body, together with their ceramic insert, ensures an exceptionally long useful life.
- Suitable for herbicides, fungicides and pesticides.

- Boquilla de cono vacío con inserto de cerámica y cuerpo en Delrin®.
- El chorro creado por HCA80 garantiza una cobertura óptima reduciendo el riesgo de deriva del producto.
- Adecuado para el uso en atomizador.
- El cuerpo exterior moldeado en Delrin®, junto al inserto de cerámica, le otorga excepcionales características de durabilidad.
- Adecuado para tratamientos con herbicidas, fungicidas e insecticidas.

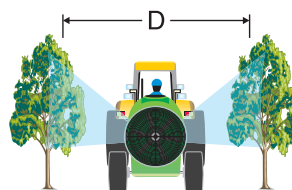
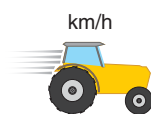
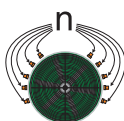


Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco

| COD.     | q (l/min) |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |
|----------|-----------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|          | 3 bar     | 4 bar | 5 bar | 6 bar | 7 bar | 8 bar | 9 bar | 10 bar | 11 bar | 12 bar | 13 bar | 14 bar | 15 bar | 16 bar | 17 bar | 18 bar | 19 bar | 20 bar |
| HCA8001  | 0.40      | 0.46  | 0.52  | 0.57  | 0.61  | 0.65  | 0.69  | 0.73   | 0.77   | 0.80   | 0.83   | 0.86   | 0.89   | 0.92   | 0.95   | 0.98   | 1.01   | 1.03   |
| HCA80015 | 0.60      | 0.69  | 0.77  | 0.85  | 0.92  | 0.98  | 1.04  | 1.10   | 1.15   | 1.20   | 1.25   | 1.30   | 1.34   | 1.39   | 1.43   | 1.47   | 1.51   | 1.55   |
| HCA8002  | 0.80      | 0.92  | 1.03  | 1.13  | 1.22  | 1.31  | 1.39  | 1.46   | 1.53   | 1.60   | 1.67   | 1.73   | 1.79   | 1.85   | 1.90   | 1.96   | 2.01   | 2.07   |
| HCA80025 | 1.00      | 1.15  | 1.29  | 1.41  | 1.53  | 1.63  | 1.73  | 1.83   | 1.91   | 2.00   | 2.08   | 2.16   | 2.24   | 2.31   | 2.38   | 2.45   | 2.52   | 2.58   |
| HCA8003  | 1.20      | 1.39  | 1.55  | 1.70  | 1.83  | 1.96  | 2.08  | 2.19   | 2.30   | 2.40   | 2.50   | 2.59   | 2.68   | 2.77   | 2.86   | 2.94   | 3.02   | 3.10   |
| HCA80035 | 1.40      | 1.62  | 1.81  | 1.98  | 2.14  | 2.29  | 2.42  | 2.56   | 2.68   | 2.80   | 2.91   | 3.02   | 3.13   | 3.23   | 3.33   | 3.43   | 3.52   | 3.61   |
| HCA8004  | 1.60      | 1.85  | 2.07  | 2.26  | 2.44  | 2.61  | 2.77  | 2.92   | 3.06   | 3.20   | 3.33   | 3.46   | 3.58   | 3.70   | 3.81   | 3.92   | 4.03   | 4.13   |
| HCA8005  | 2.00      | 2.31  | 2.58  | 2.83  | 3.06  | 3.27  | 3.46  | 3.65   | 3.83   | 4.00   | 4.16   | 4.32   | 4.47   | 4.62   | 4.73   | 4.90   | 5.03   | 5.16   |



$$\text{Vol (l/ha)} = \frac{\text{l/min} \times n \times 600}{\text{km/h} \times D \text{ (m)}}$$





Utilizzo  
Use  
Utilización

Herbicides



Suitable for

Fungicides



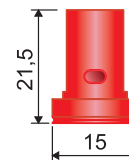
Suitable for

Insecticides



Suitable for

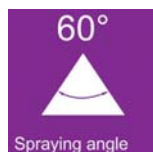
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



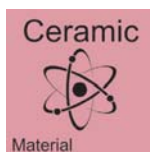
- Ugello a cono vuoto con inserto in ceramica e corpo in Delrin®.
- Il getto creato da HCA60 garantisce una copertura ottimale pur riducendo il rischio di deriva del prodotto.
- Adatto per l'utilizzo su atomizzatore.
- Il corpo esterno stampato in Delrin®, unito all'inserto in ceramica conferisce eccezionali caratteristiche di durata.
- Adatto per trattamenti con erbicidi, fungicidi ed insetticidi.

- Hollowcone nozzle with ceramic insert and Delrin® body.
- HCA60 spray ensures excellent spraying range, yet reducing the product drift.
- Suitable for orchard sprayer.
- Their Delrin®-molded outer body, together with their ceramic insert, ensures an exceptionally long useful life.
- Suitable for herbicides, fungicides and pesticides.

- Boquilla de cono vacío con inserto de cerámica y cuerpo en Delrin®.
- El chorro creado por HCA60 garantiza una cobertura óptima reduciendo el riesgo de deriva del producto.
- Adecuado para el uso en atomizador.
- El cuerpo exterior moldeado en Delrin®, junto al inserto de cerámica, le otorga excepcionales características de durabilidad.
- Adecuado para tratamientos con herbicidas, fungicidas e insecticidas.



Spraying angle



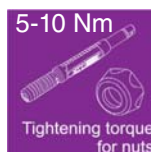
Ceramic

Material



402905xx

Cap



5-10 Nm

Tightening torque for nuts



Orchard

Treatment



ISO 10625

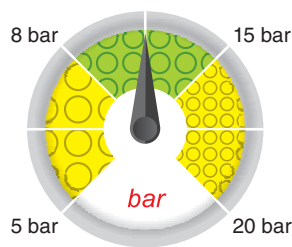
Colour coding



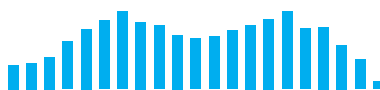
10 pcs.

cod. + B1

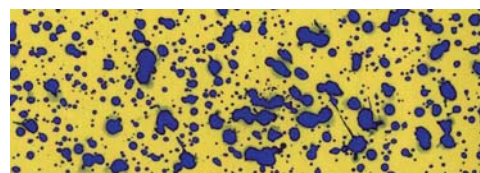
Blister pack



Copertura  
Spray coverage  
Cobertura



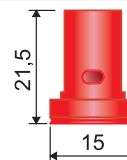
Distribuzione  
Nozzle distribution pattern  
Distribución



Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco

| COD.      | q (l/min) |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |
|-----------|-----------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|           | 5 bar     | 6 bar | 7 bar | 8 bar | 9 bar | 10 bar | 11 bar | 12 bar | 13 bar | 14 bar | 15 bar | 16 bar | 17 bar | 18 bar | 19 bar | 20 bar |
| HCA600075 | 0.39      | 0.42  | 0.46  | 0.49  | 0.52  | 0.55   | 0.57   | 0.60   | 0.62   | 0.65   | 0.67   | 0.69   | 0.71   | 0.73   | 0.75   | 0.77   |
| HCA60001  | 0.52      | 0.57  | 0.61  | 0.65  | 0.69  | 0.73   | 0.77   | 0.80   | 0.83   | 0.86   | 0.89   | 0.92   | 0.95   | 0.98   | 1.01   | 1.03   |
| HCA60015  | 0.77      | 0.85  | 0.92  | 0.98  | 1.04  | 1.10   | 1.15   | 1.20   | 1.25   | 1.30   | 1.34   | 1.39   | 1.43   | 1.47   | 1.51   | 1.55   |
| HCA6002   | 1.03      | 1.13  | 1.22  | 1.31  | 1.39  | 1.46   | 1.53   | 1.60   | 1.67   | 1.73   | 1.79   | 1.85   | 1.90   | 1.96   | 2.01   | 2.07   |
| HCA60025  | 1.29      | 1.41  | 1.53  | 1.63  | 1.73  | 1.83   | 1.91   | 2.00   | 2.08   | 2.16   | 2.24   | 2.31   | 2.38   | 2.45   | 2.52   | 2.58   |
| HCA6003   | 1.55      | 1.70  | 1.83  | 1.96  | 2.08  | 2.19   | 2.30   | 2.40   | 2.50   | 2.59   | 2.68   | 2.77   | 2.86   | 2.94   | 3.02   | 3.10   |
| HCA60035  | 1.81      | 1.98  | 2.14  | 2.29  | 2.42  | 2.56   | 2.68   | 2.80   | 2.91   | 3.02   | 3.13   | 3.23   | 3.33   | 3.43   | 3.52   | 3.61   |
| HCA6004   | 2.07      | 2.26  | 2.44  | 2.61  | 2.77  | 2.92   | 3.06   | 3.20   | 3.33   | 3.46   | 3.58   | 3.70   | 3.81   | 3.92   | 4.03   | 4.13   |
| HCA6005   | 2.58      | 2.83  | 3.06  | 3.27  | 3.46  | 3.65   | 3.83   | 4.00   | 4.16   | 4.32   | 4.47   | 4.62   | 4.76   | 4.90   | 5.03   | 5.16   |
| HCA6006   | 3.10      | 3.39  | 3.67  | 3.92  | 4.16  | 4.38   | 4.60   | 4.80   | 5.00   | 5.18   | 5.37   | 5.54   | 5.71   | 5.88   | 6.04   | 6.20   |

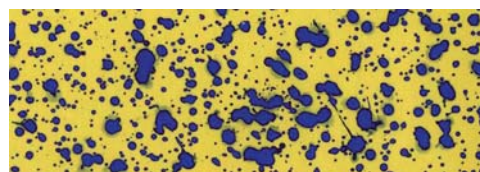
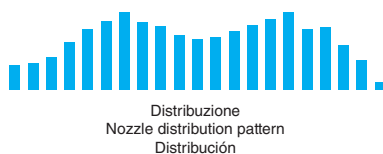
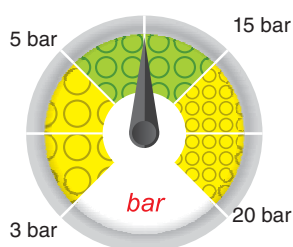
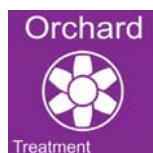
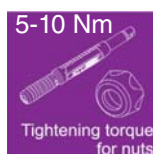
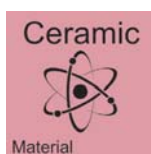
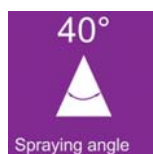

**Utilizzo**  
**Use**  
**Utilización**

**Dimensioni (mm)**  
**Size (mm)**  
**Dimensiones (mm)**


- Ugello a cono vuoto con inserto in ceramica e corpo in Delrin®.
- Il getto creato da HCA80 garantisce una copertura ottimale pur riducendo il rischio di deriva del prodotto.
- Adatto per l'utilizzo su atomizzatore.
- Il corpo esterno stampato in Delrin®, unito all'inserto in ceramica conferisce eccezionali caratteristiche di durata.
- Adatto per trattamenti con erbicidi, fungicidi ed insetticidi.

- Hollowcone nozzle with ceramic insert and Delrin® body.
- HCA80 spray ensures excellent spraying range, yet reducing the product drift.
- Suitable for orchard sprayer.
- Their Delrin®-molded outer body, together with their ceramic insert, ensures an exceptionally long useful life.
- Suitable for herbicides, fungicides and pesticides.

- Boquilla de cono vacío con inserto de cerámica y cuerpo en Delrin®.
- El chorro creado por HCA80 garantiza una cobertura óptima reduciendo el riesgo de deriva del producto.
- Adecuado para el uso en atomizador.
- El cuerpo exterior moldeado en Delrin®, junto al inserto de cerámica, le otorga excepcionales características de durabilidad.
- Adecuado para tratamientos con herbicidas, fungicidas e insecticidas.

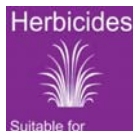


| COD.            | q (l/min) |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |  |  |
|-----------------|-----------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
|                 | 3 bar     | 4 bar | 5 bar | 6 bar | 7 bar | 8 bar | 9 bar | 10 bar | 11 bar | 12 bar | 13 bar | 14 bar | 15 bar | 16 bar | 17 bar | 18 bar | 19 bar | 20 bar |  |  |
| <b>HCA4002</b>  | 0.80      | 0.92  | 1.03  | 1.13  | 1.22  | 1.31  | 1.39  | 1.46   | 1.53   | 1.60   | 1.67   | 1.73   | 1.79   | 1.85   | 1.90   | 1.96   | 2.01   | 2.07   |  |  |
| <b>HCA40025</b> | 1.00      | 1.15  | 1.29  | 1.41  | 1.53  | 1.63  | 1.73  | 1.83   | 1.91   | 2.00   | 2.08   | 2.16   | 2.24   | 2.31   | 2.38   | 2.45   | 2.52   | 2.58   |  |  |
| <b>HCA4003</b>  | 1.20      | 1.39  | 1.55  | 1.70  | 1.83  | 1.96  | 2.08  | 2.19   | 2.30   | 2.40   | 2.50   | 2.59   | 2.68   | 2.77   | 2.86   | 2.94   | 3.02   | 3.10   |  |  |
| <b>HCA4004</b>  | 1.60      | 1.85  | 2.07  | 2.26  | 2.44  | 2.61  | 2.77  | 2.92   | 3.06   | 3.20   | 3.33   | 3.46   | 3.58   | 3.70   | 3.81   | 3.92   | 4.03   | 4.13   |  |  |

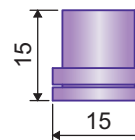
# HCC HOLLOWCONE CERAMIC



Utilizzo  
Use  
Utilización



Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



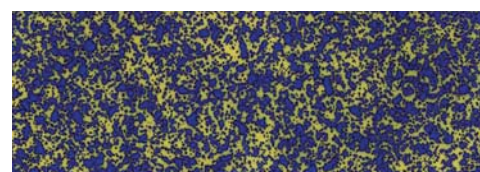
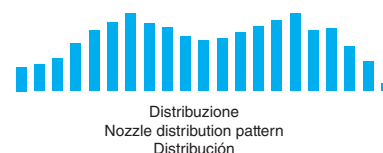
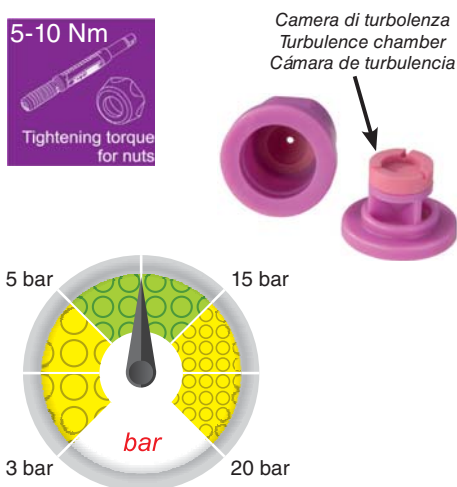
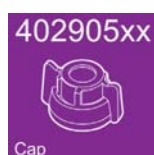
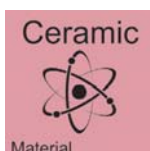
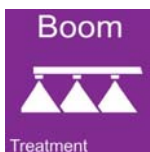
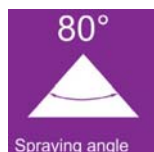
- Ugello a cono vuoto con inserto in ceramica e corpo in Delrin®.
- Il getto creato da Hollowcone Ceramic genera piccole gocce e garantisce una copertura eccellente.
- Adatto per l'utilizzo su atomizzatore.
- Perfetto per l'utilizzo su alberi e cespugli anche senza l'intervento dell'aria.
- Certificato ENAMA ed ENTAM.

- Hollowcone nozzle with ceramic insert and Delrin® body.
- Hollowcone Ceramic nozzles spray small drops and ensure excellent coverage.
- Suitable for orchard sprayer.
- Perfect for trees and bushes without requiring the use of air.
- ENTAM and ENAMA certified.

- Boquilla de cono vacío con inserto de cerámica y cuerpo en Delrin®.
- El chorro creado por Hollowcone Ceramic tiene pequeñas gotas y garantiza una excelente cobertura.
- Adecuado para el uso en atomizador.
- Perfecta para el uso en árboles y arbustos, incluso sin la intervención del aire.
- Certificado ENAMA y ENTAM.

**ENAMA**  
COMPONENTE  
CERTIFICATO  
46a.020/029

**ENTAM**



| COD.    | q (l/min) |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |
|---------|-----------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|         | 3 bar     | 4 bar | 5 bar | 6 bar | 7 bar | 8 bar | 9 bar | 10 bar | 11 bar | 12 bar | 13 bar | 14 bar | 15 bar | 16 bar | 17 bar | 18 bar | 19 bar | 20 bar |
| HCC005  | 0.20      | 0.23  | 0.26  | 0.28  | 0.31  | 0.33  | 0.35  | 0.37   | 0.38   | 0.40   | 0.42   | 0.43   | 0.45   | 0.46   | 0.48   | 0.49   | 0.50   | 0.52   |
| HCC0075 | 0.30      | 0.35  | 0.39  | 0.42  | 0.46  | 0.49  | 0.52  | 0.55   | 0.57   | 0.60   | 0.62   | 0.65   | 0.67   | 0.69   | 0.71   | 0.73   | 0.75   | 0.77   |
| HCC01   | 0.40      | 0.46  | 0.52  | 0.57  | 0.61  | 0.65  | 0.69  | 0.73   | 0.77   | 0.80   | 0.83   | 0.86   | 0.89   | 0.92   | 0.95   | 0.98   | 1.01   | 1.03   |
| HCC015  | 0.60      | 0.69  | 0.77  | 0.85  | 0.92  | 0.98  | 1.04  | 1.10   | 1.15   | 1.20   | 1.25   | 1.30   | 1.34   | 1.39   | 1.43   | 1.47   | 1.51   | 1.55   |
| HCC02   | 0.80      | 0.92  | 1.03  | 1.13  | 1.22  | 1.31  | 1.39  | 1.46   | 1.53   | 1.60   | 1.67   | 1.73   | 1.79   | 1.85   | 1.90   | 1.96   | 2.01   | 2.07   |
| HCC025  | 1.00      | 1.15  | 1.29  | 1.41  | 1.53  | 1.63  | 1.73  | 1.83   | 1.91   | 2.00   | 2.08   | 2.16   | 2.24   | 2.31   | 2.38   | 2.45   | 2.52   | 2.58   |
| HCC03   | 1.20      | 1.39  | 1.55  | 1.70  | 1.83  | 1.96  | 2.08  | 2.19   | 2.30   | 2.40   | 2.50   | 2.59   | 2.68   | 2.77   | 2.86   | 2.94   | 3.02   | 3.10   |
| HCC035  | 1.40      | 1.62  | 1.81  | 1.98  | 2.14  | 2.29  | 2.42  | 2.56   | 2.68   | 2.80   | 2.91   | 3.02   | 3.13   | 3.23   | 3.33   | 3.43   | 3.52   | 3.61   |
| HCC04   | 1.60      | 1.85  | 2.07  | 2.26  | 2.44  | 2.61  | 2.77  | 2.92   | 3.06   | 3.20   | 3.33   | 3.46   | 3.58   | 3.70   | 3.81   | 3.92   | 4.03   | 4.13   |
| HCC05   | 2.00      | 2.31  | 2.58  | 2.83  | 3.06  | 3.27  | 3.46  | 3.65   | 3.83   | 4.00   | 4.16   | 4.32   | 4.47   | 4.62   | 4.76   | 4.90   | 5.03   | 5.16   |
| HCC06   | 2.40      | 2.77  | 3.10  | 3.39  | 3.67  | 3.92  | 4.16  | 4.38   | 4.60   | 4.80   | 5.00   | 5.18   | 5.37   | 5.54   | 5.71   | 5.88   | 6.04   | 6.20   |

Calcolo dei l/ha nelle note tecniche a fine catalogo

How to calculate l/ha in the technical suggestions section, at the end of the catalogue

Cálculo de los l/ha en las notas técnicas al final del catálogo



Utilizzo  
Use  
Utilización

Herbicides



Suitable for

Fungicides



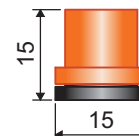
Suitable for

Insecticides



Suitable for

Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



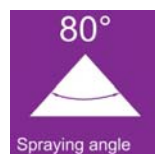
- Ugello a cono vuoto con inserto in ceramica e corpo in Delrin®.
- Il getto creato da Hollowcone Ceramic genera piccole gocce e garantisce una copertura eccellente.
- Adatto per l'utilizzo su atomizzatore.
- Perfetto per l'utilizzo su alberi e cespugli anche senza l'intervento dell'aria.

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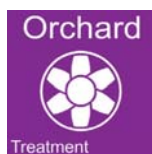
- Boquilla de cono vacío con inserto de cerámica y cuerpo en Delrin®.
- El chorro creado por Hollowcone Ceramic tiene pequeñas gotas y garantiza una excelente cobertura.
- Adecuado para el uso en atomizador.
- Perfecta para el uso en árboles y arbustos, incluso sin la intervención del aire.

ENAMA  
COMPONENTE  
CERTIFICATO  
46a.036/045

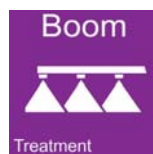
ENTAM



Spraying angle



Treatment



Treatment



Material



Colour coding



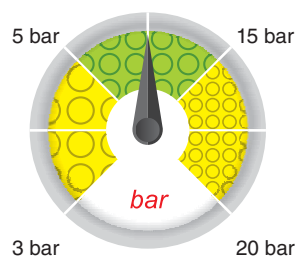
Cap



Blister pack



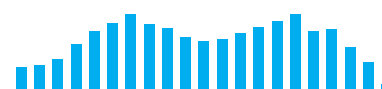
Tightening torque for nuts



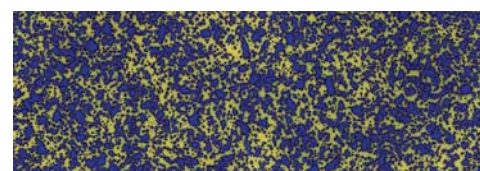
Camera di turbolenza  
Turbulence chamber  
Cámara de turbulencia



Copertura  
Spray coverage  
Cobertura



Distribuzione  
Nozzle distribution pattern  
Distribución



Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco

| COD.      | q (l/min) |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |
|-----------|-----------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|           | 3 bar     | 4 bar | 5 bar | 6 bar | 7 bar | 8 bar | 9 bar | 10 bar | 11 bar | 12 bar | 13 bar | 14 bar | 15 bar | 16 bar | 17 bar | 18 bar | 19 bar | 20 bar |
| HCI80005  | 0.20      | 0.23  | 0.26  | 0.28  | 0.31  | 0.33  | 0.35  | 0.37   | 0.38   | 0.40   | 0.42   | 0.43   | 0.45   | 0.46   | 0.48   | 0.49   | 0.50   | 0.52   |
| HCI800075 | 0.30      | 0.35  | 0.39  | 0.42  | 0.46  | 0.49  | 0.52  | 0.55   | 0.57   | 0.60   | 0.62   | 0.65   | 0.67   | 0.69   | 0.71   | 0.73   | 0.75   | 0.77   |
| HCI8001   | 0.40      | 0.46  | 0.52  | 0.57  | 0.61  | 0.65  | 0.69  | 0.73   | 0.77   | 0.80   | 0.83   | 0.86   | 0.89   | 0.92   | 0.95   | 0.98   | 1.01   | 1.03   |
| HCI80015  | 0.60      | 0.69  | 0.77  | 0.85  | 0.92  | 0.98  | 1.04  | 1.10   | 1.15   | 1.20   | 1.25   | 1.30   | 1.34   | 1.39   | 1.43   | 1.47   | 1.51   | 1.55   |
| HCI8002   | 0.80      | 0.92  | 1.03  | 1.13  | 1.22  | 1.31  | 1.39  | 1.46   | 1.53   | 1.60   | 1.67   | 1.73   | 1.79   | 1.85   | 1.90   | 1.96   | 2.01   | 2.07   |
| HCI80025  | 1.00      | 1.15  | 1.29  | 1.41  | 1.53  | 1.63  | 1.73  | 1.83   | 1.91   | 2.00   | 2.08   | 2.16   | 2.24   | 2.31   | 2.38   | 2.45   | 2.52   | 2.58   |
| HCI8003   | 1.20      | 1.39  | 1.55  | 1.70  | 1.83  | 1.96  | 2.08  | 2.19   | 2.30   | 2.40   | 2.50   | 2.59   | 2.68   | 2.77   | 2.86   | 2.94   | 3.02   | 3.10   |
| HCI80035  | 1.40      | 1.62  | 1.81  | 1.98  | 2.14  | 2.29  | 2.42  | 2.56   | 2.68   | 2.80   | 2.91   | 3.02   | 3.13   | 3.23   | 3.33   | 3.43   | 3.52   | 3.61   |
| HCI8004   | 1.60      | 1.85  | 2.07  | 2.26  | 2.44  | 2.61  | 2.77  | 2.92   | 3.06   | 3.20   | 3.33   | 3.46   | 3.58   | 3.70   | 3.81   | 3.92   | 4.03   | 4.13   |
| HCI8005   | 2.00      | 2.31  | 2.58  | 2.83  | 3.06  | 3.27  | 3.46  | 3.65   | 3.83   | 4.00   | 4.16   | 4.32   | 4.47   | 4.62   | 4.76   | 4.90   | 5.03   | 5.16   |
| HCI8006   | 2.40      | 2.77  | 3.10  | 3.39  | 3.67  | 3.92  | 4.16  | 4.38   | 4.60   | 4.80   | 5.00   | 5.18   | 5.37   | 5.54   | 5.71   | 5.88   | 6.04   | 6.20   |

Calcolo dei l/ha nelle note tecniche a fine catalogo

How to calculate l/ha in the technical suggestions section, at the end of the catalogue

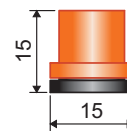
Cálculo de los l/ha en las notas técnicas al final del catálogo



Utilizzo  
Use  
Utilización



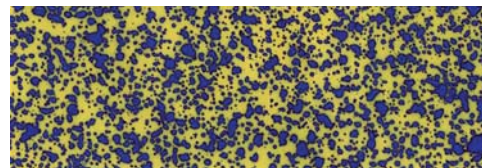
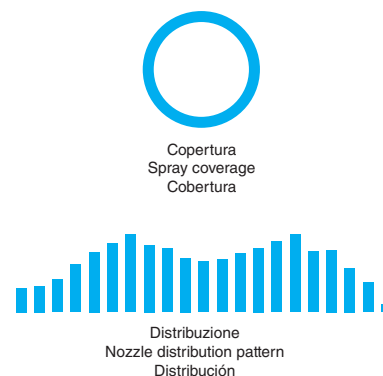
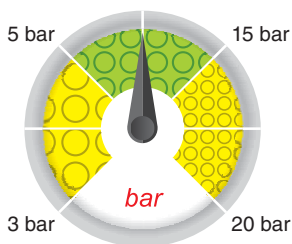
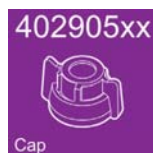
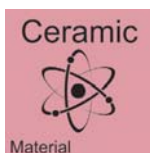
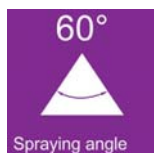
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



- Ugello a cono vuoto con inserto in ceramica e corpo in Delrin®.
- Il getto creato da Hollowcone Ceramic genera piccole gocce e garantisce una copertura eccellente.
- Adatto per l'utilizzo su atomizzatore.
- Perfetto per l'utilizzo su alberi e cespugli anche senza l'intervento dell'aria.
- Limita la sovrapposizione del getto anche in filari molto stretti.

- Hollowcone nozzle with ceramic insert and Delrin® body.
- Hollowcone Ceramic nozzles spray small drops and ensure excellent coverage.
- Suitable for orchard sprayer.
- Perfect for trees and bushes without requiring the use of air.
- It limits overspraying even in case of narrow rows.

- Boquilla de cono vacío con inserto de cerámica y cuerpo en Delrin®.
- El chorro creado por Hollowcone Ceramic tiene pequeñas gotas y garantiza una excelente cobertura.
- Adecuado para el uso en atomizador.
- Perfecta para el uso en árboles y arbustos, incluso sin la intervención del aire.
- Limita la superposición del chorro, incluso en hileras muy estrechas.



Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco

| COD.      | q (l/min) |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |
|-----------|-----------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|           | 3 bar     | 4 bar | 5 bar | 6 bar | 7 bar | 8 bar | 9 bar | 10 bar | 11 bar | 12 bar | 13 bar | 14 bar | 15 bar | 16 bar | 17 bar | 18 bar | 19 bar | 20 bar |
| HCI60005  | 0.20      | 0.23  | 0.26  | 0.28  | 0.31  | 0.33  | 0.35  | 0.37   | 0.38   | 0.40   | 0.42   | 0.43   | 0.45   | 0.46   | 0.48   | 0.49   | 0.50   | 0.52   |
| HCI600075 | 0.30      | 0.35  | 0.39  | 0.42  | 0.46  | 0.49  | 0.52  | 0.55   | 0.57   | 0.60   | 0.62   | 0.65   | 0.67   | 0.69   | 0.71   | 0.73   | 0.75   | 0.77   |
| HCI60001  | 0.40      | 0.46  | 0.52  | 0.57  | 0.61  | 0.65  | 0.69  | 0.73   | 0.77   | 0.80   | 0.83   | 0.86   | 0.89   | 0.92   | 0.95   | 0.98   | 1.01   | 1.03   |
| HCI60015  | 0.60      | 0.69  | 0.77  | 0.85  | 0.92  | 0.98  | 1.04  | 1.10   | 1.15   | 1.20   | 1.25   | 1.30   | 1.34   | 1.39   | 1.43   | 1.47   | 1.51   | 1.55   |
| HCI60002  | 0.80      | 0.92  | 1.03  | 1.13  | 1.22  | 1.31  | 1.39  | 1.46   | 1.53   | 1.60   | 1.67   | 1.73   | 1.79   | 1.85   | 1.90   | 1.96   | 2.01   | 2.07   |
| HCI60025  | 1.00      | 1.15  | 1.29  | 1.41  | 1.53  | 1.63  | 1.73  | 1.83   | 1.91   | 2.00   | 2.08   | 2.16   | 2.24   | 2.31   | 2.38   | 2.45   | 2.52   | 2.58   |
| HCI60003  | 1.20      | 1.39  | 1.55  | 1.70  | 1.83  | 1.96  | 2.08  | 2.19   | 2.30   | 2.40   | 2.50   | 2.59   | 2.68   | 2.77   | 2.86   | 2.94   | 3.02   | 3.10   |
| HCI60035  | 1.40      | 1.62  | 1.81  | 1.98  | 2.14  | 2.29  | 2.42  | 2.56   | 2.68   | 2.80   | 2.91   | 3.02   | 3.13   | 3.23   | 3.33   | 3.43   | 3.52   | 3.61   |
| HCI60004  | 1.60      | 1.85  | 2.07  | 2.26  | 2.44  | 2.61  | 2.77  | 2.92   | 3.06   | 3.20   | 3.33   | 3.46   | 3.58   | 3.70   | 3.81   | 3.92   | 4.03   | 4.13   |
| HCI60005  | 2.00      | 2.31  | 2.58  | 2.83  | 3.06  | 3.27  | 3.46  | 3.65   | 3.83   | 4.00   | 4.16   | 4.32   | 4.47   | 4.62   | 4.76   | 4.90   | 5.03   | 5.16   |
| HCI60006  | 2.40      | 2.77  | 3.10  | 3.39  | 3.67  | 3.92  | 4.16  | 4.38   | 4.60   | 4.80   | 5.00   | 5.18   | 5.37   | 5.54   | 5.71   | 5.88   | 6.04   | 6.20   |

Calcolo dei l/ha nelle note tecniche a fine catalogo

How to calculate l/ha in the technical suggestions section, at the end of the catalogue

Cálculo de los l/ha en las notas técnicas al final del catálogo



Utilizzo  
Use  
Utilización

Herbicides



Suitable for

Fungicides



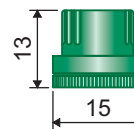
Suitable for

Insecticides



Suitable for

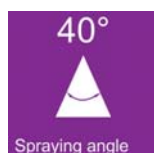
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



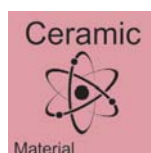
- Ugello a cono vuoto con inserto in ceramica e corpo in Delrin®.
- Il getto creato da Hollowcone Ceramic genera piccole gocce e garantisce una copertura eccellente.
- Adatto per l'utilizzo su atomizzatore.
- Perfetto per l'utilizzo su alberi e cespugli anche senza l'intervento dell'aria.
- Limita la sovrapposizione del getto anche in filari dove non sarebbe possibile utilizzare ugelli con angoli più larghi.

- Hollowcone nozzle with ceramic insert and Delrin® body.
- Hollowcone Ceramic nozzles spray small drops and ensure excellent coverage.
- Suitable for orchard sprayer.
- Perfect for trees and bushes without requiring the use of air.
- It limits overspraying even in case of rows preventing use of nozzles with a wider angle.

- Boquilla de cono vacío con inserto de cerámica y cuerpo en Delrin®.
- El chorro creado por Hollowcone Ceramic tiene pequeñas gotas y garantiza una excelente cobertura.
- Adecuado para el uso en atomizador.
- Perfecta para el uso en árboles y arbustos, incluso sin la intervención del aire.
- Limita la superposición del chorro incluso en hileras donde no sería posible utilizar boquillas con ángulos más anchos.



Spraying angle



Ceramic

Material



402905xx

Cap



5-10 Nm

Tightening torque for nuts



Orchard

Treatment



ISO  
10625

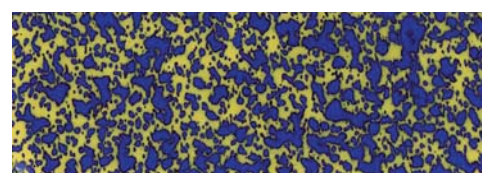
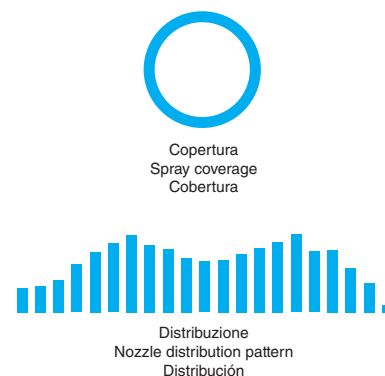
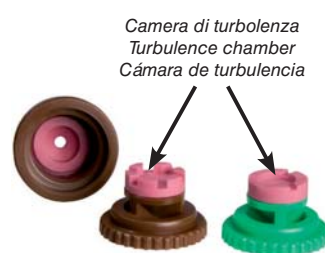
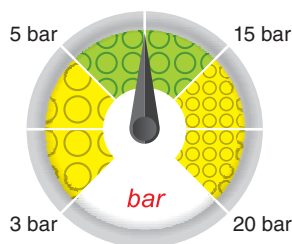
Colour coding



10 pcs.

cod.  
B1

Blister pack



Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco

| COD.     | q (l/min) |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |
|----------|-----------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|          | 3 bar     | 4 bar | 5 bar | 6 bar | 7 bar | 8 bar | 9 bar | 10 bar | 11 bar | 12 bar | 13 bar | 14 bar | 15 bar | 16 bar | 17 bar | 18 bar | 19 bar | 20 bar |
| HCI4001  | 0.40      | 0.46  | 0.52  | 0.57  | 0.61  | 0.65  | 0.69  | 0.73   | 0.77   | 0.80   | 0.83   | 0.86   | 0.89   | 0.92   | 0.95   | 0.98   | 1.01   | 1.03   |
| HCI40015 | 0.60      | 0.69  | 0.77  | 0.85  | 0.92  | 0.98  | 1.04  | 1.10   | 1.15   | 1.20   | 1.25   | 1.30   | 1.34   | 1.39   | 1.43   | 1.47   | 1.51   | 1.55   |
| HCI4002  | 0.80      | 0.92  | 1.03  | 1.13  | 1.22  | 1.31  | 1.39  | 1.46   | 1.53   | 1.60   | 1.67   | 1.73   | 1.79   | 1.85   | 1.90   | 1.96   | 2.01   | 2.07   |
| HCI40025 | 1.00      | 1.15  | 1.29  | 1.41  | 1.53  | 1.63  | 1.73  | 1.83   | 1.91   | 2.00   | 2.08   | 2.16   | 2.24   | 2.31   | 2.38   | 2.45   | 2.52   | 2.58   |
| HCI4003  | 1.20      | 1.39  | 1.55  | 1.70  | 1.83  | 1.96  | 2.08  | 2.19   | 2.30   | 2.40   | 2.50   | 2.59   | 2.68   | 2.77   | 2.86   | 2.94   | 3.02   | 3.10   |
| HCI40035 | 1.40      | 1.62  | 1.81  | 1.98  | 2.14  | 2.29  | 2.42  | 2.56   | 2.68   | 2.80   | 2.91   | 3.02   | 3.13   | 3.23   | 3.33   | 3.43   | 3.52   | 3.61   |
| HCI4004  | 1.60      | 1.85  | 2.07  | 2.26  | 2.44  | 2.61  | 2.77  | 2.92   | 3.06   | 3.20   | 3.33   | 3.46   | 3.58   | 3.70   | 3.81   | 3.92   | 4.03   | 4.13   |
| HCI4005  | 2.00      | 2.31  | 2.58  | 2.83  | 3.06  | 3.27  | 3.46  | 3.65   | 3.83   | 4.00   | 4.16   | 4.32   | 4.47   | 4.62   | 4.76   | 4.90   | 5.03   | 5.16   |
| HCI4006  | 2.40      | 2.77  | 3.10  | 3.39  | 3.67  | 3.92  | 4.16  | 4.38   | 4.60   | 4.80   | 5.00   | 5.18   | 5.37   | 5.54   | 5.71   | 5.88   | 6.04   | 6.20   |

Calcolo dei l/ha nelle note tecniche a fine catalogo

How to calculate l/ha in the technical suggestions section, at the end of the catalogue

Cálculo de los l/ha en las notas técnicas al final del catálogo



Utilizzo  
Use  
Utilización



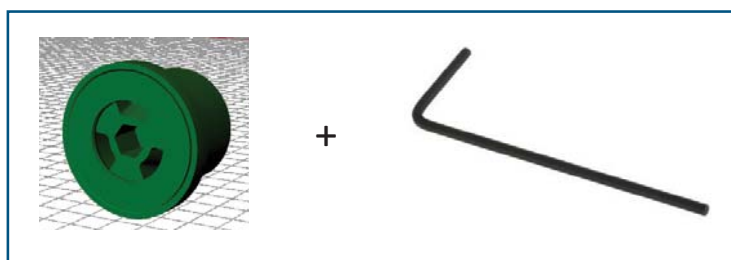
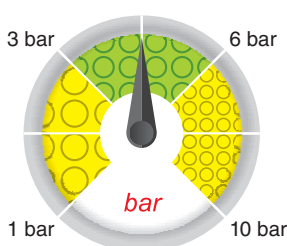
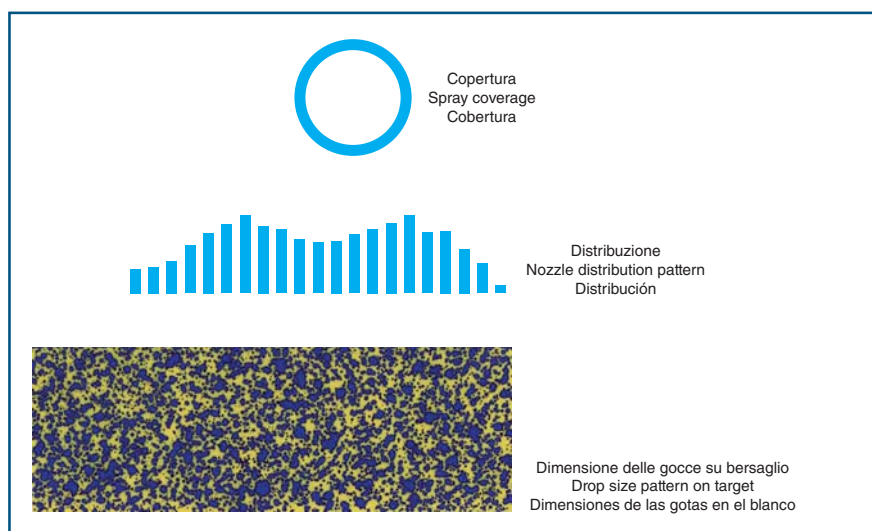
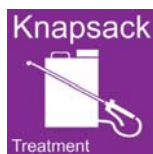
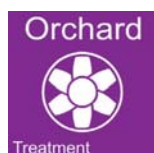
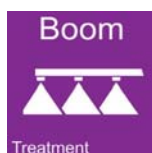
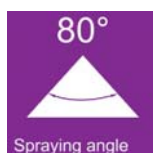
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)

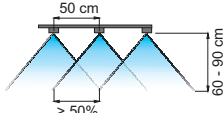
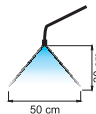


- Gli ugelli Hollowcone Small sono composti da un convogliatore inserito in un corpo che fornisce un getto a cono vuoto.
- Il convogliatore è facilmente removibile per la pulizia.
- Stampato in Resina Acetalica, materiale con alta stabilità, che conferisce eccezionali caratteristiche di durata.
- Può essere utilizzato su barra da diserbo.
- Perfetto per gli utilizzi con pompe a spalla.
- Gli ugelli Hollowcone Small possono essere usati per spazzare sopra o sotto il fogliame o per coperture omogenee.
- Adatto per utilizzo nelle applicazioni fogliari di insetticidi e fungicidi, in quanto producono gocce di dimensioni ridotte già alla pressione di 3 bar.
- Quando utilizzato su barra, è importante scegliere la corretta altezza di utilizzo per garantire la giusta sovrapposizione dei getti.

- Hollowcone Small nozzles consist of a core inserted into a disc supplying a hollow cone jet.
- The core can be easily removed for cleaning operations.
- Made of molded Acetal Resin, a polymer ensuring high chemical stability and an exceptionally long useful life.
- It can be used on crop spraying boom.
- Perfect for knapsack sprayers.
- Hollowcone Small nozzles can be used to spray onto or under the leaves or to have a smooth coverage.
- Suitable for use in leaf spraying of insecticides and fungicides, since they produce small drops already at 3 bars.
- If used on boom, spraying height is fundamental to ensure the correct spray overlapping.

- Las boquillas Hollowcone Small están compuestas por una placa/difusor introducido en un cuerpo que suministra un chorro de cono vacío.
- El difusor se puede extraer con facilidad para la limpieza.
- Moldeado en , material con alta estabilidad química, que otorga excepcionales características de duración.
- Se puede usar en barra para herbicida.
- Perfecto para los usos con pulverizador de mochila.
- Las boquillas Hollowcone Small se pueden usar para rociar arriba o abajo de las hojas o para coberturas homogéneas.
- Apto para el uso en aplicaciones en hojas de insecticidas y fungicidas, ya que producen gotas de reducidas dimensiones ya a la presión de 3 bar.
- Cuando se usa en barra, es importante seleccionar la altura correcta de uso para garantizar la adecuada superposición de los chorros.



| COD.<br>CODE<br>CÓD. | <br>bar | <br>drop | <br>l/min |  |        |        |         |         |         |         |         |         |     | <br>Pompa a spalla<br>Knapsack pump<br>Pulverizador de mochila<br><br>l/ha<br>@ 60 m/min<br>(3.6 km/h) |
|----------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                                                                                          |                                                                                           |                                                                                            | l/ha                                                                              |        |        |         |         |         |         |         |         |     |                                                                                                                                                                                           |
|                      |                                                                                          |                                                                                           |                                                                                            | 4 km/h                                                                            | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h |     |                                                                                                                                                                                           |
| HCS80100*            | 1                                                                                        | M                                                                                         | 1                                                                                          | M                                                                                 | 0.06   | 12     | 9       | 7       | 5       | 4       | 4       | 3       | 19  |                                                                                                                                                                                           |
|                      | 2                                                                                        | F                                                                                         | 2                                                                                          | F                                                                                 | 0.08   | 16     | 12      | 10      | 7       | 6       | 5       | 5       | 27  |                                                                                                                                                                                           |
|                      | 3                                                                                        | VF                                                                                        | 3                                                                                          | VF                                                                                | 0.10   | 20     | 15      | 12      | 9       | 8       | 7       | 6       | 33  |                                                                                                                                                                                           |
|                      | 5                                                                                        | VF                                                                                        | 5                                                                                          | VF                                                                                | 0.13   | 26     | 19      | 15      | 11      | 10      | 9       | 8       | 43  |                                                                                                                                                                                           |
|                      | 8                                                                                        | VF                                                                                        | 8                                                                                          | VF                                                                                | 0.16   | 33     | 24      | 20      | 14      | 12      | 11      | 10      | 54  |                                                                                                                                                                                           |
|                      | 10                                                                                       | VF                                                                                        | 10                                                                                         | VF                                                                                | 0.18   | 37     | 27      | 22      | 16      | 14      | 12      | 11      | 61  |                                                                                                                                                                                           |
| HCS80005             | 1                                                                                        | F                                                                                         | 1                                                                                          | F                                                                                 | 0.12   | 23     | 17      | 14      | 10      | 9       | 8       | 7       | 38  |                                                                                                                                                                                           |
|                      | 2                                                                                        | F                                                                                         | 2                                                                                          | F                                                                                 | 0.16   | 33     | 24      | 20      | 14      | 12      | 11      | 10      | 54  |                                                                                                                                                                                           |
|                      | 3                                                                                        | F                                                                                         | 3                                                                                          | F                                                                                 | 0.20   | 40     | 30      | 24      | 17      | 15      | 13      | 12      | 67  |                                                                                                                                                                                           |
|                      | 5                                                                                        | VF                                                                                        | 5                                                                                          | VF                                                                                | 0.26   | 52     | 39      | 31      | 22      | 19      | 17      | 15      | 86  |                                                                                                                                                                                           |
|                      | 8                                                                                        | VF                                                                                        | 8                                                                                          | VF                                                                                | 0.33   | 65     | 49      | 39      | 28      | 24      | 22      | 20      | 109 |                                                                                                                                                                                           |
|                      | 10                                                                                       | VF                                                                                        | 10                                                                                         | VF                                                                                | 0.37   | 73     | 55      | 44      | 31      | 27      | 24      | 22      | 122 |                                                                                                                                                                                           |
| HCS8001              | 1                                                                                        | F                                                                                         | 1                                                                                          | F                                                                                 | 0.23   | 46     | 35      | 28      | 20      | 17      | 15      | 14      | 77  |                                                                                                                                                                                           |
|                      | 2                                                                                        | F                                                                                         | 2                                                                                          | F                                                                                 | 0.33   | 65     | 49      | 39      | 28      | 24      | 22      | 20      | 109 |                                                                                                                                                                                           |
|                      | 3                                                                                        | F                                                                                         | 3                                                                                          | F                                                                                 | 0.40   | 80     | 60      | 48      | 34      | 30      | 27      | 24      | 133 |                                                                                                                                                                                           |
|                      | 5                                                                                        | F                                                                                         | 5                                                                                          | VF                                                                                | 0.52   | 103    | 77      | 62      | 44      | 39      | 34      | 31      | 172 |                                                                                                                                                                                           |
|                      | 8                                                                                        | VF                                                                                        | 8                                                                                          | VF                                                                                | 0.65   | 131    | 98      | 78      | 56      | 49      | 44      | 39      | 218 |                                                                                                                                                                                           |
|                      | 10                                                                                       | VF                                                                                        | 10                                                                                         | VF                                                                                | 0.73   | 146    | 110     | 88      | 63      | 55      | 49      | 44      | 243 |                                                                                                                                                                                           |
| HCS80015             | 1                                                                                        | F                                                                                         | 1                                                                                          | F                                                                                 | 0.35   | 69     | 52      | 42      | 30      | 26      | 23      | 21      | 115 |                                                                                                                                                                                           |
|                      | 2                                                                                        | F                                                                                         | 2                                                                                          | F                                                                                 | 0.49   | 98     | 73      | 59      | 42      | 37      | 33      | 29      | 163 |                                                                                                                                                                                           |
|                      | 3                                                                                        | F                                                                                         | 3                                                                                          | F                                                                                 | 0.60   | 120    | 90      | 72      | 51      | 45      | 40      | 36      | 200 |                                                                                                                                                                                           |
|                      | 5                                                                                        | F                                                                                         | 5                                                                                          | F                                                                                 | 0.77   | 155    | 116     | 93      | 66      | 58      | 52      | 46      | 258 |                                                                                                                                                                                           |
|                      | 8                                                                                        | VF                                                                                        | 8                                                                                          | VF                                                                                | 0.98   | 196    | 147     | 118     | 84      | 73      | 65      | 59      | 327 |                                                                                                                                                                                           |
|                      | 10                                                                                       | VF                                                                                        | 10                                                                                         | VF                                                                                | 1.10   | 219    | 164     | 131     | 94      | 82      | 73      | 66      | 365 |                                                                                                                                                                                           |
| HCS8002              | 1                                                                                        | F                                                                                         | 1                                                                                          | F                                                                                 | 0.46   | 92     | 69      | 55      | 40      | 35      | 31      | 28      | 154 |                                                                                                                                                                                           |
|                      | 2                                                                                        | F                                                                                         | 2                                                                                          | F                                                                                 | 0.65   | 131    | 98      | 78      | 56      | 49      | 44      | 39      | 218 |                                                                                                                                                                                           |
|                      | 3                                                                                        | F                                                                                         | 3                                                                                          | F                                                                                 | 0.80   | 160    | 120     | 96      | 69      | 60      | 53      | 48      | 267 |                                                                                                                                                                                           |
|                      | 5                                                                                        | F                                                                                         | 5                                                                                          | F                                                                                 | 1.03   | 207    | 155     | 124     | 89      | 77      | 69      | 62      | 344 |                                                                                                                                                                                           |
|                      | 8                                                                                        | VF                                                                                        | 8                                                                                          | VF                                                                                | 1.31   | 261    | 196     | 157     | 112     | 98      | 87      | 78      | 435 |                                                                                                                                                                                           |
|                      | 10                                                                                       | VF                                                                                        | 10                                                                                         | VF                                                                                | 1.46   | 292    | 219     | 175     | 125     | 110     | 97      | 88      | 487 |                                                                                                                                                                                           |
| HCS8003              | 1                                                                                        | M                                                                                         | 1                                                                                          | M                                                                                 | 0.69   | 139    | 104     | 83      | 59      | 52      | 46      | 42      | 231 |                                                                                                                                                                                           |
|                      | 2                                                                                        | F                                                                                         | 2                                                                                          | F                                                                                 | 0.98   | 196    | 147     | 118     | 84      | 73      | 65      | 59      | 327 |                                                                                                                                                                                           |
|                      | 3                                                                                        | F                                                                                         | 3                                                                                          | F                                                                                 | 1.20   | 240    | 180     | 144     | 103     | 90      | 80      | 72      | 400 |                                                                                                                                                                                           |
|                      | 5                                                                                        | F                                                                                         | 5                                                                                          | F                                                                                 | 1.55   | 310    | 232     | 186     | 133     | 116     | 103     | 93      | 516 |                                                                                                                                                                                           |
|                      | 8                                                                                        | F                                                                                         | 8                                                                                          | F                                                                                 | 1.96   | 392    | 294     | 235     | 168     | 147     | 131     | 118     | 653 |                                                                                                                                                                                           |
|                      | 10                                                                                       | F                                                                                         | 10                                                                                         | F                                                                                 | 2.19   | 438    | 329     | 263     | 188     | 164     | 146     | 131     | 730 |                                                                                                                                                                                           |

\*Portata: ± 10%

\*Flow rate: ± 10%

\*Caudal: ± 10%

|  | DIMENSIONE DELLE GOCCE<br>DROP SIZE RATING<br>DIMENSIONES DE LAS GOTAS |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| VF                                                                                  | Molto fine-Very fine-Muy fina                                          |
| F                                                                                   | Fine-Fine-Fina                                                         |
| M                                                                                   | Media-Medium-Media                                                     |

Classificazione in accordo con lo standard ASABE S572.3  
e la norma ISO25358

Classification according to ASABE S572.3 and ISO25358

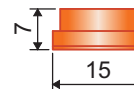
Clasificación según ASABE S572.3 e ISO25358



Utilizzo  
Use  
Utilización



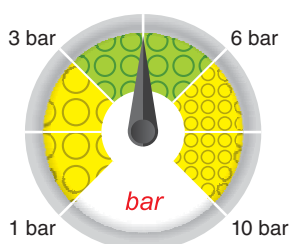
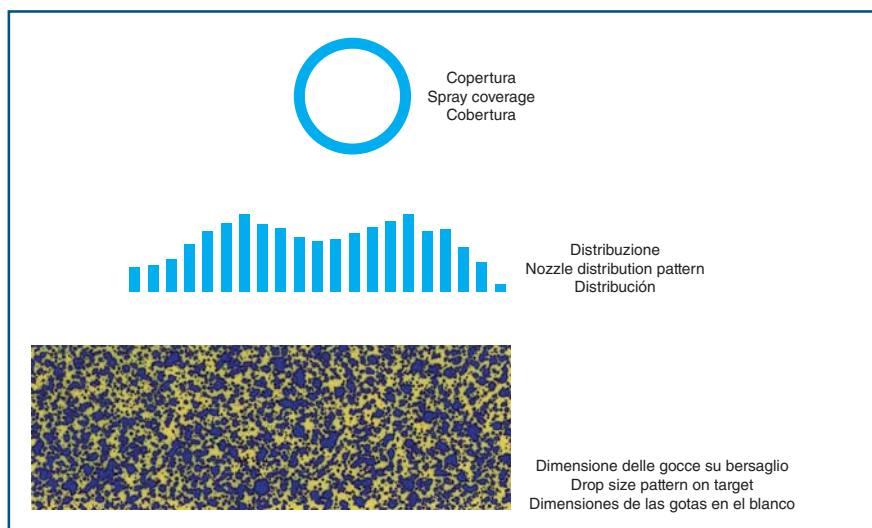
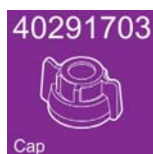
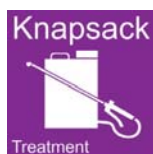
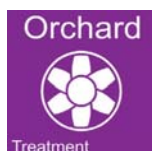
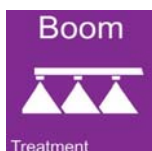
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)

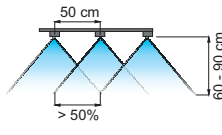
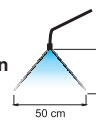


- Gli ugelli Hollowcone sono composti da una piastrina/convogliatore inserita in un corpo che fornisce un getto a cono vuoto.
- Il convogliatore è facilmente removibile per la pulizia.
- Stampato in Delrin®, materiale con alta stabilità, che conferisce eccezionali caratteristiche di durata.
- Può essere utilizzato su barra da diserbo.
- Perfetto per gli utilizzi con pompe a spalla.
- Gli ugelli Hollowcone possono essere usati per spazzare sopra o sotto il fogliame o per coperture omogenee.
- Adatto per utilizzo nelle applicazioni fogliari di insetticidi e fungicidi, in quanto producono gocce di dimensioni ridotte già alla pressione di 3 bar.
- Quando utilizzato su barra, è importante scegliere la corretta altezza di utilizzo per garantire la giusta sovrapposizione dei getti.

- Hollowcone nozzles consist of a disc/core inserted into a disc supplying a hollow cone jet.
- The core can be easily removed for cleaning operations.
- Made of molded Delrin®, a polymer ensuring high chemical stability and an exceptionally long useful life.
- It can be used on crop spraying boom.
- Perfect for knapsack sprayers.
- Hollowcone nozzles can be used to spray onto or under the leaves or to have a smooth coverage.
- Suitable for use in leaf spraying of insecticides and fungicides, since they produce small drops already at 3 bars.
- If used on boom, spraying height is fundamental to ensure the correct spray overlapping.

- Las boquillas Hollowcone están compuestas por una placa/difusor introducido en un cuerpo que suministra un chorro de cono vacío.
- El difusor se puede extraer con facilidad para la limpieza.
- Moldeado en Delrin®, material con alta estabilidad química, que otorga excepcionales características de duración.
- Se puede usar en barra para herbicida.
- Perfecto para los usos con pulverizador de mochila.
- Las boquillas Hollowcone se pueden usar para rociar arriba o abajo de las hojas o para coberturas homogéneas.
- Apto para el uso en aplicaciones en hojas de insecticidas y fungicidas, ya que producen gotas de reducidas dimensiones ya a la presión de 3 bar.
- Cuando se usa en barra, es importante seleccionar la altura correcta de uso para garantizar la adecuada superposición de los chorros.



| COD.<br>CODE<br>CÓD. |  |  |  |  |  |        |        |         |         |         |         |         |         |      |  |
|----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|------|-------------------------------------------------------------------------------------|
|                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   | l/ha                                                                               |        |        |         |         |         |         |         |         |      |                                                                                     |
|                      |                                                                                   | bar                                                                               | drop                                                                              | l/min                                                                             | 4 km/h                                                                             | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h |      |                                                                                     |
| HC8001               | 85°                                                                               | 1                                                                                 | F                                                                                 | 0.23                                                                              | 69                                                                                 | 46     | 35     | 28      | 23      | 20      | 17      | 15      | 14      | 77   |                                                                                     |
|                      |                                                                                   | 2                                                                                 | F                                                                                 | 0.33                                                                              | 98                                                                                 | 65     | 49     | 39      | 33      | 28      | 24      | 22      | 20      | 109  |                                                                                     |
|                      |                                                                                   | 3                                                                                 | F                                                                                 | 0.40                                                                              | 120                                                                                | 80     | 60     | 48      | 40      | 34      | 30      | 27      | 24      | 133  |                                                                                     |
|                      |                                                                                   | 5                                                                                 | F                                                                                 | 0.52                                                                              | 155                                                                                | 103    | 77     | 62      | 52      | 44      | 39      | 34      | 31      | 172  |                                                                                     |
|                      |                                                                                   | 8                                                                                 | VF                                                                                | 0.65                                                                              | 196                                                                                | 131    | 98     | 78      | 65      | 56      | 49      | 44      | 39      | 218  |                                                                                     |
|                      |                                                                                   | 10                                                                                | VF                                                                                | 0.73                                                                              | 219                                                                                | 146    | 110    | 88      | 73      | 63      | 55      | 49      | 44      | 243  |                                                                                     |
| HC80015              | 85°                                                                               | 1                                                                                 | F                                                                                 | 0.35                                                                              | 104                                                                                | 69     | 52     | 42      | 35      | 30      | 26      | 23      | 21      | 115  |                                                                                     |
|                      |                                                                                   | 2                                                                                 | F                                                                                 | 0.49                                                                              | 147                                                                                | 98     | 73     | 59      | 49      | 42      | 37      | 33      | 29      | 163  |                                                                                     |
|                      |                                                                                   | 3                                                                                 | F                                                                                 | 0.60                                                                              | 180                                                                                | 120    | 90     | 72      | 60      | 51      | 45      | 40      | 36      | 200  |                                                                                     |
|                      |                                                                                   | 5                                                                                 | F                                                                                 | 0.77                                                                              | 232                                                                                | 155    | 116    | 93      | 77      | 66      | 58      | 52      | 46      | 258  |                                                                                     |
|                      |                                                                                   | 8                                                                                 | VF                                                                                | 0.98                                                                              | 294                                                                                | 196    | 147    | 118     | 98      | 84      | 73      | 65      | 59      | 327  |                                                                                     |
|                      |                                                                                   | 10                                                                                | VF                                                                                | 1.10                                                                              | 329                                                                                | 219    | 164    | 131     | 110     | 94      | 82      | 73      | 66      | 365  |                                                                                     |
| HC8002               | 80°                                                                               | 1                                                                                 | F                                                                                 | 0.46                                                                              | 139                                                                                | 92     | 69     | 55      | 46      | 40      | 35      | 31      | 28      | 154  |                                                                                     |
|                      |                                                                                   | 2                                                                                 | F                                                                                 | 0.65                                                                              | 196                                                                                | 131    | 98     | 78      | 65      | 56      | 49      | 44      | 39      | 218  |                                                                                     |
|                      |                                                                                   | 3                                                                                 | F                                                                                 | 0.80                                                                              | 240                                                                                | 160    | 120    | 96      | 80      | 69      | 60      | 53      | 48      | 267  |                                                                                     |
|                      |                                                                                   | 5                                                                                 | F                                                                                 | 1.03                                                                              | 310                                                                                | 207    | 155    | 124     | 103     | 89      | 77      | 69      | 62      | 344  |                                                                                     |
|                      |                                                                                   | 8                                                                                 | VF                                                                                | 1.31                                                                              | 392                                                                                | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 435  |                                                                                     |
|                      |                                                                                   | 10                                                                                | VF                                                                                | 1.46                                                                              | 438                                                                                | 292    | 219    | 175     | 146     | 125     | 110     | 97      | 88      | 487  |                                                                                     |
| HC80025              | 80°                                                                               | 1                                                                                 | M                                                                                 | 0.58                                                                              | 173                                                                                | 115    | 87     | 69      | 58      | 49      | 43      | 38      | 35      | 192  |                                                                                     |
|                      |                                                                                   | 2                                                                                 | F                                                                                 | 0.82                                                                              | 245                                                                                | 163    | 122    | 98      | 82      | 70      | 61      | 54      | 49      | 272  |                                                                                     |
|                      |                                                                                   | 3                                                                                 | F                                                                                 | 1.00                                                                              | 300                                                                                | 200    | 150    | 120     | 100     | 86      | 75      | 67      | 60      | 333  |                                                                                     |
|                      |                                                                                   | 5                                                                                 | F                                                                                 | 1.29                                                                              | 387                                                                                | 258    | 194    | 155     | 129     | 111     | 97      | 86      | 77      | 430  |                                                                                     |
|                      |                                                                                   | 8                                                                                 | VF                                                                                | 1.63                                                                              | 490                                                                                | 327    | 245    | 196     | 163     | 140     | 122     | 109     | 98      | 544  |                                                                                     |
|                      |                                                                                   | 10                                                                                | VF                                                                                | 1.83                                                                              | 548                                                                                | 365    | 274    | 219     | 183     | 156     | 137     | 122     | 110     | 609  |                                                                                     |
| HC8003               | 80°                                                                               | 1                                                                                 | M                                                                                 | 0.69                                                                              | 208                                                                                | 139    | 104    | 83      | 69      | 59      | 52      | 46      | 42      | 231  |                                                                                     |
|                      |                                                                                   | 2                                                                                 | F                                                                                 | 0.98                                                                              | 294                                                                                | 196    | 147    | 118     | 98      | 84      | 73      | 65      | 59      | 327  |                                                                                     |
|                      |                                                                                   | 3                                                                                 | F                                                                                 | 1.20                                                                              | 360                                                                                | 240    | 180    | 144     | 120     | 103     | 90      | 80      | 72      | 400  |                                                                                     |
|                      |                                                                                   | 5                                                                                 | F                                                                                 | 1.55                                                                              | 465                                                                                | 310    | 232    | 186     | 155     | 133     | 116     | 103     | 93      | 516  |                                                                                     |
|                      |                                                                                   | 8                                                                                 | F                                                                                 | 1.96                                                                              | 588                                                                                | 392    | 294    | 235     | 196     | 168     | 147     | 131     | 118     | 653  |                                                                                     |
|                      |                                                                                   | 10                                                                                | VF                                                                                | 2.19                                                                              | 657                                                                                | 438    | 329    | 263     | 219     | 188     | 164     | 146     | 131     | 730  |                                                                                     |
| HC80035              | 80°                                                                               | 1                                                                                 | M                                                                                 | 0.81                                                                              | 242                                                                                | 162    | 121    | 97      | 81      | 69      | 61      | 54      | 48      | 269  |                                                                                     |
|                      |                                                                                   | 2                                                                                 | F                                                                                 | 1.14                                                                              | 343                                                                                | 229    | 171    | 137     | 114     | 98      | 86      | 76      | 69      | 381  |                                                                                     |
|                      |                                                                                   | 3                                                                                 | F                                                                                 | 1.40                                                                              | 420                                                                                | 280    | 210    | 168     | 140     | 120     | 105     | 93      | 84      | 467  |                                                                                     |
|                      |                                                                                   | 5                                                                                 | F                                                                                 | 1.81                                                                              | 542                                                                                | 361    | 271    | 217     | 181     | 155     | 136     | 120     | 108     | 602  |                                                                                     |
|                      |                                                                                   | 8                                                                                 | F                                                                                 | 2.29                                                                              | 686                                                                                | 457    | 343    | 274     | 229     | 196     | 171     | 152     | 137     | 762  |                                                                                     |
|                      |                                                                                   | 10                                                                                | F                                                                                 | 2.56                                                                              | 767                                                                                | 511    | 383    | 307     | 256     | 219     | 192     | 170     | 153     | 852  |                                                                                     |
| HC8004               | 80°                                                                               | 1                                                                                 | M                                                                                 | 0.92                                                                              | 277                                                                                | 185    | 139    | 111     | 92      | 79      | 69      | 62      | 55      | 308  |                                                                                     |
|                      |                                                                                   | 2                                                                                 | F                                                                                 | 1.31                                                                              | 392                                                                                | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 435  |                                                                                     |
|                      |                                                                                   | 3                                                                                 | F                                                                                 | 1.60                                                                              | 480                                                                                | 320    | 240    | 192     | 160     | 137     | 120     | 107     | 96      | 533  |                                                                                     |
|                      |                                                                                   | 5                                                                                 | F                                                                                 | 2.07                                                                              | 620                                                                                | 413    | 310    | 248     | 207     | 177     | 155     | 138     | 124     | 689  |                                                                                     |
|                      |                                                                                   | 8                                                                                 | F                                                                                 | 2.61                                                                              | 784                                                                                | 523    | 392    | 314     | 261     | 224     | 196     | 174     | 157     | 871  |                                                                                     |
|                      |                                                                                   | 10                                                                                | F                                                                                 | 2.92                                                                              | 876                                                                                | 584    | 438    | 351     | 292     | 250     | 219     | 195     | 175     | 974  |                                                                                     |
| HC8005               | 80°                                                                               | 1                                                                                 | M                                                                                 | 1.15                                                                              | 346                                                                                | 231    | 173    | 139     | 115     | 99      | 87      | 77      | 69      | 385  |                                                                                     |
|                      |                                                                                   | 2                                                                                 | M                                                                                 | 1.63                                                                              | 490                                                                                | 327    | 245    | 196     | 163     | 140     | 122     | 109     | 98      | 544  |                                                                                     |
|                      |                                                                                   | 3                                                                                 | M                                                                                 | 2.00                                                                              | 600                                                                                | 400    | 300    | 240     | 200     | 171     | 150     | 133     | 120     | 667  |                                                                                     |
|                      |                                                                                   | 5                                                                                 | F                                                                                 | 2.58                                                                              | 775                                                                                | 516    | 387    | 310     | 258     | 221     | 194     | 172     | 155     | 861  |                                                                                     |
|                      |                                                                                   | 8                                                                                 | F                                                                                 | 3.27                                                                              | 980                                                                                | 653    | 490    | 392     | 327     | 280     | 245     | 218     | 196     | 1089 |                                                                                     |
|                      |                                                                                   | 10                                                                                | F                                                                                 | 3.65                                                                              | 1.095                                                                              | 730    | 548    | 438     | 365     | 313     | 274     | 243     | 219     | 1217 |                                                                                     |
| HC8006               | 80°                                                                               | 1                                                                                 | M                                                                                 | 1.39                                                                              | 416                                                                                | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 462  |                                                                                     |
|                      |                                                                                   | 2                                                                                 | M                                                                                 | 1.96                                                                              | 588                                                                                | 392    | 294    | 235     | 196     | 168     | 147     | 131     | 118     | 653  |                                                                                     |
|                      |                                                                                   | 3                                                                                 | M                                                                                 | 2.40                                                                              | 720                                                                                | 480    | 360    | 288     | 240     | 206     | 180     | 160     | 144     | 800  |                                                                                     |
|                      |                                                                                   | 5                                                                                 | M                                                                                 | 3.10                                                                              | 930                                                                                | 620    | 465    | 372     | 310     | 266     | 232     | 207     | 186     | 1033 |                                                                                     |
|                      |                                                                                   | 8                                                                                 | F                                                                                 | 3.92                                                                              | 1.176                                                                              | 784    | 588    | 470     | 392     | 336     | 294     | 261     | 235     | 1306 |                                                                                     |
|                      |                                                                                   | 10                                                                                | F                                                                                 | 4.38                                                                              | 1.315                                                                              | 876    | 657    | 526     | 438     | 376     | 329     | 292     | 263     | 1461 |                                                                                     |

 DIMENSIONE DELLE GOCCE  
DROP SIZE RATING  
DIMENSIONES DE LAS GOTAS

**VF** Molto fine-Very fine-Muy fina  
**F** Fine-Fine-Fina  
**M** Media-Medium-Media

Classificazione in accordo con lo standard ASABE S572.3 e la norma ISO25358

Classification according to ASABE S572.3 and ISO25358

Clasificación según ASABE S572.3 e ISO25358

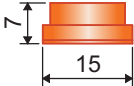
# HCF FULLCONE



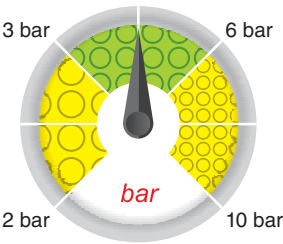
Utilizzo  
Use  
Utilización



Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)

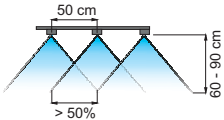
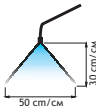


- Gli ugelli HCF sono composti da un convogliatore inserito in un corpo che produce un getto a cono pieno.
  - Il convogliatore è facilmente removibile per la pulizia.
  - Stampato in Delrin®, materiale con alta stabilità, che conferisce eccezionali caratteristiche di durata.
  - Può essere utilizzato su barra da diserbo e atomizzatore.
  - Perfetto per gli utilizzi con pompe a spalla.
  - Gli ugelli HCF sono particolarmente indicati per l'irrorazione in presenza di fitta vegetazione.
  - Produce gocce di dimensioni fino al 40% maggiori rispetto al modello HC riducendo la sensibilità alla deriva.
- HCF nozzles consist of a conveyor core inserted into a body supplying a full cone spray.
  - The conveyor core can be easily removed for cleaning operations.
  - Made of molded Delrin®, a polymer ensuring high chemical stability and an exceptionally long useful life.
  - Can be used on crop spraying boom and orchard sprayer.
  - Perfect for knapsack pump.
  - HCF nozzles are particularly suited for spraying thick vegetation.
  - Produces drops about 40% larger than the HC model, reducing the tendency to drift.
- Las boquillas HCF están compuestas por un difusor introducido en un cuerpo que produce un chorro de cono lleno.
  - El difusor se puede extraer con facilidad para la limpieza.
  - Moldeado en Delrin®, material con alta estabilidad, que otorga excepcionales características de duración.
  - Puede ser utilizado en barra de pulverización y atomizador.
  - Perfecto para los usos con pulverizador de mochila.
  - Las boquillas HCF están indicadas particularmente para la pulverización en presencia de vegetación densa.
  - Produce gotas de dimensiones de hasta el 40% superiores con respecto al modelo HC reduciendo la sensibilidad a la deriva.



| COD.     | q (l/min) |       |       |       |       |       |       |       |        |
|----------|-----------|-------|-------|-------|-------|-------|-------|-------|--------|
|          | 2 bar     | 3 bar | 4 bar | 5 bar | 6 bar | 7 bar | 8 bar | 9 bar | 10 bar |
| HCF80015 | 0.49      | 0.60  | 0.69  | 0.77  | 0.85  | 0.92  | 0.98  | 1.04  | 1.10   |
| HCF8002  | 0.65      | 0.80  | 0.92  | 1.03  | 1.13  | 1.22  | 1.31  | 1.39  | 1.46   |
| HCF8003  | 0.98      | 1.20  | 1.39  | 1.55  | 1.70  | 1.83  | 1.96  | 2.08  | 2.19   |
| HCF8004  | 1.31      | 1.60  | 1.85  | 2.07  | 2.26  | 2.44  | 2.61  | 2.77  | 2.92   |



| COD.<br>CODE<br>CÓD. | <br>bar | <br>drop | <br>l/min |  |        |        |         |         |         |         |         |         | Pompa a spalla<br>Knapsack pump<br>Pulverizador de mochila<br><br><br>l/ha<br>@ 60 m/min<br>(3.6 km/h) |
|----------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                                                                                          |                                                                                           |                                                                                            | 4 km/h                                                                            | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h |                                                                                                                                                                                           |
| HCF80015             | 2                                                                                        | F                                                                                         | 0.49                                                                                       | 147                                                                               | 98     | 73     | 59      | 49      | 42      | 37      | 33      | 29      | 163                                                                                                                                                                                       |
|                      | 3                                                                                        | F                                                                                         | 0.60                                                                                       | 180                                                                               | 120    | 90     | 72      | 60      | 51      | 45      | 40      | 36      | 200                                                                                                                                                                                       |
|                      | 4                                                                                        | F                                                                                         | 0.69                                                                                       | 208                                                                               | 139    | 104    | 83      | 69      | 59      | 52      | 46      | 42      | 231                                                                                                                                                                                       |
|                      | 5                                                                                        | F                                                                                         | 0.77                                                                                       | 232                                                                               | 155    | 116    | 93      | 77      | 66      | 58      | 52      | 46      | 258                                                                                                                                                                                       |
|                      | 6                                                                                        | F                                                                                         | 0.85                                                                                       | 255                                                                               | 170    | 127    | 102     | 85      | 73      | 64      | 57      | 51      | 283                                                                                                                                                                                       |
|                      | 7                                                                                        | VF                                                                                        | 0.92                                                                                       | 275                                                                               | 183    | 137    | 110     | 92      | 79      | 69      | 61      | 55      | 306                                                                                                                                                                                       |
|                      | 8                                                                                        | VF                                                                                        | 0.98                                                                                       | 294                                                                               | 196    | 147    | 118     | 98      | 84      | 73      | 65      | 59      | 327                                                                                                                                                                                       |
|                      | 9                                                                                        | VF                                                                                        | 1.04                                                                                       | 312                                                                               | 208    | 156    | 125     | 104     | 89      | 78      | 69      | 62      | 346                                                                                                                                                                                       |
|                      | 10                                                                                       | VF                                                                                        | 1.10                                                                                       | 329                                                                               | 219    | 164    | 131     | 110     | 94      | 82      | 73      | 66      | 365                                                                                                                                                                                       |
|                      |                                                                                          |                                                                                           |                                                                                            |                                                                                   |        |        |         |         |         |         |         |         |                                                                                                                                                                                           |
| HCF8002              | 2                                                                                        | M                                                                                         | 0.65                                                                                       | 196                                                                               | 131    | 98     | 78      | 65      | 56      | 49      | 44      | 39      | 218                                                                                                                                                                                       |
|                      | 3                                                                                        | F                                                                                         | 0.80                                                                                       | 240                                                                               | 160    | 120    | 96      | 80      | 69      | 60      | 53      | 48      | 267                                                                                                                                                                                       |
|                      | 4                                                                                        | F                                                                                         | 0.92                                                                                       | 277                                                                               | 185    | 139    | 111     | 92      | 79      | 69      | 62      | 55      | 308                                                                                                                                                                                       |
|                      | 5                                                                                        | F                                                                                         | 1.03                                                                                       | 310                                                                               | 207    | 155    | 124     | 103     | 56      | 77      | 69      | 62      | 344                                                                                                                                                                                       |
|                      | 6                                                                                        | F                                                                                         | 1.13                                                                                       | 339                                                                               | 226    | 170    | 136     | 113     | 97      | 85      | 75      | 68      | 377                                                                                                                                                                                       |
|                      | 7                                                                                        | F                                                                                         | 1.22                                                                                       | 367                                                                               | 244    | 183    | 147     | 122     | 105     | 92      | 81      | 73      | 407                                                                                                                                                                                       |
|                      | 8                                                                                        | F                                                                                         | 1.31                                                                                       | 392                                                                               | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 435                                                                                                                                                                                       |
|                      | 9                                                                                        | F                                                                                         | 1.39                                                                                       | 416                                                                               | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 462                                                                                                                                                                                       |
|                      | 10                                                                                       | VF                                                                                        | 1.46                                                                                       | 438                                                                               | 292    | 219    | 175     | 146     | 125     | 110     | 97      | 88      | 487                                                                                                                                                                                       |
|                      |                                                                                          |                                                                                           |                                                                                            |                                                                                   |        |        |         |         |         |         |         |         |                                                                                                                                                                                           |
| HCF8003              | 2                                                                                        | M                                                                                         | 0.98                                                                                       | 294                                                                               | 196    | 147    | 118     | 98      | 84      | 73      | 65      | 59      | 327                                                                                                                                                                                       |
|                      | 3                                                                                        | M                                                                                         | 1.20                                                                                       | 360                                                                               | 240    | 180    | 144     | 120     | 103     | 90      | 80      | 72      | 400                                                                                                                                                                                       |
|                      | 4                                                                                        | F                                                                                         | 1.39                                                                                       | 416                                                                               | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 462                                                                                                                                                                                       |
|                      | 5                                                                                        | F                                                                                         | 1.55                                                                                       | 465                                                                               | 310    | 232    | 186     | 155     | 133     | 116     | 103     | 93      | 516                                                                                                                                                                                       |
|                      | 6                                                                                        | F                                                                                         | 1.70                                                                                       | 509                                                                               | 339    | 255    | 204     | 170     | 145     | 127     | 113     | 102     | 566                                                                                                                                                                                       |
|                      | 7                                                                                        | F                                                                                         | 1.83                                                                                       | 550                                                                               | 367    | 275    | 220     | 183     | 157     | 137     | 122     | 110     | 611                                                                                                                                                                                       |
|                      | 8                                                                                        | F                                                                                         | 1.96                                                                                       | 588                                                                               | 392    | 294    | 235     | 196     | 168     | 147     | 131     | 118     | 653                                                                                                                                                                                       |
|                      | 9                                                                                        | F                                                                                         | 2.08                                                                                       | 624                                                                               | 416    | 312    | 249     | 208     | 178     | 156     | 139     | 125     | 693                                                                                                                                                                                       |
|                      | 10                                                                                       | F                                                                                         | 2.19                                                                                       | 657                                                                               | 438    | 329    | 263     | 219     | 188     | 164     | 146     | 131     | 730                                                                                                                                                                                       |
|                      |                                                                                          |                                                                                           |                                                                                            |                                                                                   |        |        |         |         |         |         |         |         |                                                                                                                                                                                           |
| HCF8004              | 2                                                                                        | C                                                                                         | 1.31                                                                                       | 392                                                                               | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 435                                                                                                                                                                                       |
|                      | 3                                                                                        | M                                                                                         | 1.60                                                                                       | 480                                                                               | 320    | 240    | 192     | 160     | 137     | 120     | 107     | 96      | 533                                                                                                                                                                                       |
|                      | 4                                                                                        | M                                                                                         | 1.85                                                                                       | 554                                                                               | 370    | 277    | 222     | 185     | 158     | 139     | 123     | 111     | 616                                                                                                                                                                                       |
|                      | 5                                                                                        | M                                                                                         | 2.07                                                                                       | 620                                                                               | 413    | 310    | 248     | 207     | 177     | 155     | 138     | 124     | 689                                                                                                                                                                                       |
|                      | 6                                                                                        | F                                                                                         | 2.26                                                                                       | 679                                                                               | 453    | 339    | 272     | 226     | 194     | 170     | 151     | 136     | 754                                                                                                                                                                                       |
|                      | 7                                                                                        | F                                                                                         | 2.44                                                                                       | 733                                                                               | 489    | 367    | 293     | 244     | 209     | 183     | 163     | 147     | 815                                                                                                                                                                                       |
|                      | 8                                                                                        | F                                                                                         | 2.61                                                                                       | 784                                                                               | 523    | 392    | 314     | 261     | 224     | 196     | 174     | 157     | 871                                                                                                                                                                                       |
|                      | 9                                                                                        | F                                                                                         | 2.77                                                                                       | 831                                                                               | 554    | 416    | 333     | 277     | 238     | 208     | 185     | 166     | 924                                                                                                                                                                                       |
|                      | 10                                                                                       | F                                                                                         | 2.92                                                                                       | 876                                                                               | 584    | 438    | 351     | 292     | 250     | 219     | 195     | 175     | 974                                                                                                                                                                                       |
|                      |                                                                                          |                                                                                           |                                                                                            |                                                                                   |        |        |         |         |         |         |         |         |                                                                                                                                                                                           |

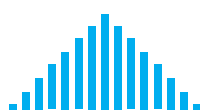
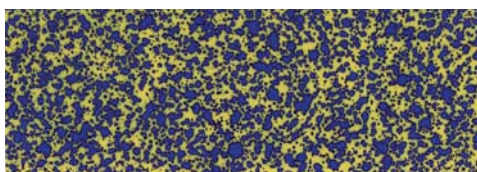


Diagramma di distribuzione ugello singolo  
Single nozzle distribution pattern  
Diagrama de distribución boquilla individual



Copertura  
Spray coverage  
Cobertura



Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco



# FCC80 FULLCONE CERAMIC 80°



Utilizzo  
Use  
Utilización



Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



- Ugello a cono pieno con inserto in ceramica e corpo in Delrin®.
- Il corpo esterno stampato in Delrin®, unito all'inserto in ceramica conferisce eccezionali caratteristiche di durata.
- Il convogliatore è facilmente removibile per la pulizia.
- Adatto per l'utilizzo su atomizzatore.
- Perfetto per gli utilizzi con pompe a spalla.
- Gli ugelli FCC80 sono particolarmente indicati per l'irrorazione in presenza di vegetazione fitta.

- Fullcone nozzle with ceramic insert and Delrin® body.
- Their Delrin®-molded outer body, together with their ceramic insert, ensures an exceptionally long useful life.
- The conveyor core can be easily removed for cleaning operations.
- Suitable for orchard sprayer.
- Perfect for knapsack pump.
- FCC80 nozzles are particularly suited for spraying thick vegetation.

- Boquilla de cono lleno con inserto de cerámica y cuerpo en Delrin®.
- El cuerpo exterior moldeado en Delrin®, junto al inserto de cerámica, le otorga excepcionales características de durabilidad.
- El difusor se puede extraer con facilidad para la limpieza.
- Adecuado para el uso en atomizador.
- Perfecto para los usos con pulverizador de mochila.
- Las boquillas FCC80 están indicadas particularmente para la pulverización en presencia de vegetación densa.

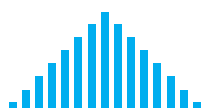
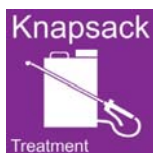
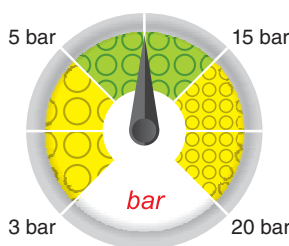
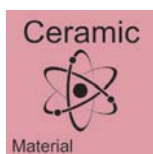
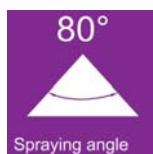
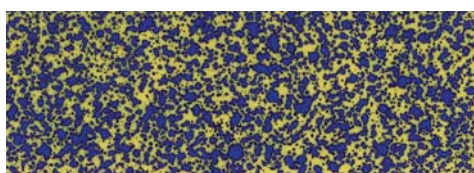


Diagramma di distribuzione ugello singolo  
Single nozzle distribution pattern  
Diagrama de distribución boquilla individual



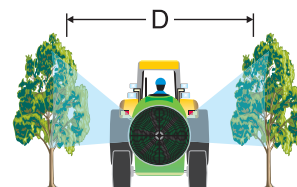
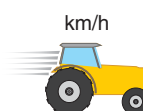
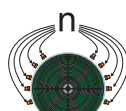
Copertura  
Spray coverage  
Cobertura

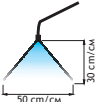


Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco

| COD.     | q (l/min) |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |
|----------|-----------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|          | 3 bar     | 4 bar | 5 bar | 6 bar | 7 bar | 8 bar | 9 bar | 10 bar | 11 bar | 12 bar | 13 bar | 14 bar | 15 bar | 16 bar | 17 bar | 18 bar | 19 bar | 20 bar |
| FCC80015 | 0.60      | 0.69  | 0.77  | 0.85  | 0.92  | 0.98  | 1.04  | 1.10   | 1.15   | 1.20   | 1.25   | 1.30   | 1.34   | 1.39   | 1.43   | 1.47   | 1.51   | 1.55   |
| FCC8002  | 0.80      | 0.92  | 1.03  | 1.13  | 1.22  | 1.31  | 1.39  | 1.46   | 1.53   | 1.60   | 1.67   | 1.73   | 1.79   | 1.85   | 1.90   | 1.96   | 2.01   | 2.07   |
| FCC80025 | 1.00      | 1.15  | 1.29  | 1.41  | 1.53  | 1.63  | 1.73  | 1.83   | 1.91   | 2.00   | 2.08   | 2.16   | 2.24   | 2.31   | 2.38   | 2.45   | 2.52   | 2.58   |
| FCC8003  | 1.20      | 1.39  | 1.55  | 1.70  | 1.83  | 1.96  | 2.08  | 2.19   | 2.30   | 2.40   | 2.50   | 2.59   | 2.68   | 2.77   | 2.86   | 2.94   | 3.02   | 3.10   |
| FCC8004  | 1.60      | 1.85  | 2.07  | 2.26  | 2.44  | 2.61  | 2.77  | 2.92   | 3.06   | 3.20   | 3.33   | 3.46   | 3.58   | 3.70   | 3.81   | 3.92   | 4.03   | 4.13   |
| FCC8005  | 2.00      | 2.31  | 2.58  | 2.83  | 3.06  | 3.27  | 3.46  | 3.65   | 3.83   | 4.00   | 4.16   | 4.32   | 4.47   | 4.62   | 4.76   | 4.90   | 5.03   | 5.16   |

$$\text{Vol (l/ha)} = \frac{\text{l/min} \times n \times 600}{\text{km/h} \times D \text{ (m)}}$$



| COD.<br>CODE<br>CÓD. | <br>bar | Pompa a spalla<br>Knapsack pump<br>Pulverizador de mochila<br><br>l/ha<br>@ 60 m/min<br>(3.6 km/h)<br> |
|----------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC80015             | 2                                                                                        | 163                                                                                                                                                                                     |
|                      | 3                                                                                        | 200                                                                                                                                                                                     |
|                      | 5                                                                                        | 258                                                                                                                                                                                     |
|                      | 8                                                                                        | 327                                                                                                                                                                                     |
|                      | 10                                                                                       | 365                                                                                                                                                                                     |
| FCC8002              | 2                                                                                        | 218                                                                                                                                                                                     |
|                      | 3                                                                                        | 267                                                                                                                                                                                     |
|                      | 5                                                                                        | 344                                                                                                                                                                                     |
|                      | 8                                                                                        | 435                                                                                                                                                                                     |
|                      | 10                                                                                       | 487                                                                                                                                                                                     |
| FCC8002              | 2                                                                                        | 272                                                                                                                                                                                     |
|                      | 3                                                                                        | 333                                                                                                                                                                                     |
|                      | 5                                                                                        | 430                                                                                                                                                                                     |
|                      | 8                                                                                        | 544                                                                                                                                                                                     |
|                      | 10                                                                                       | 609                                                                                                                                                                                     |
| HCF8003              | 2                                                                                        | 327                                                                                                                                                                                     |
|                      | 3                                                                                        | 400                                                                                                                                                                                     |
|                      | 5                                                                                        | 516                                                                                                                                                                                     |
|                      | 8                                                                                        | 653                                                                                                                                                                                     |
|                      | 10                                                                                       | 730                                                                                                                                                                                     |
| HCF8004              | 2                                                                                        | 435                                                                                                                                                                                     |
|                      | 3                                                                                        | 533                                                                                                                                                                                     |
|                      | 5                                                                                        | 689                                                                                                                                                                                     |
|                      | 8                                                                                        | 871                                                                                                                                                                                     |
|                      | 10                                                                                       | 974                                                                                                                                                                                     |
| HCF8005              | 2                                                                                        | 544                                                                                                                                                                                     |
|                      | 3                                                                                        | 667                                                                                                                                                                                     |
|                      | 5                                                                                        | 861                                                                                                                                                                                     |
|                      | 8                                                                                        | 1089                                                                                                                                                                                    |
|                      | 10                                                                                       | 1217                                                                                                                                                                                    |

| COD.      | 3 | 4 | 5 | 6 | 7 | 8  | 9  | 10 | 15 | 20 |
|-----------|---|---|---|---|---|----|----|----|----|----|
| FCC080015 | F | F | F | F | F | VF | VF | VF | VF | VF |
| FCC08002  | F | F | F | F | F | VF | VF | VF | VF | VF |
| FCC080025 | M | F | F | F | F | F  | F  | F  | VF | VF |
| FCC08003  | M | M | M | F | F | F  | F  | F  | VF | VF |
| FCC08004  | M | M | M | M | M | F  | F  | F  | F  | F  |
| FCC08005  | M | M | M | M | M | F  | F  | F  | F  | F  |



## DIMENSIONE DELLE GOCCE DROP SIZE RATING DIMENSIONES DE LAS GOTAS

|    |                               |
|----|-------------------------------|
| VF | Molto fine-Very fine-Muy fina |
| F  | Fine-Fine-Fina                |
| M  | Media-Medium-Media            |

Classificazione in accordo con lo standard ASA-  
BE S572.3 e la norma ISO25358

Classification according to ASABE S572.3 and  
ISO25358

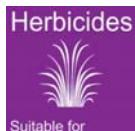
Clasificación según ASABE S572.3 e ISO25358



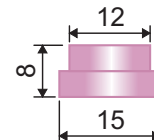
# NC DC DISC + CORE



Utilizzo  
Use  
Utilización



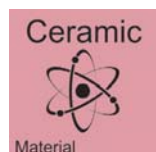
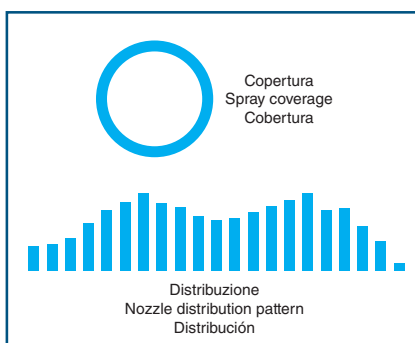
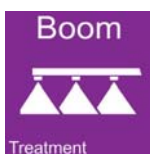
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



- Ugello a cono vuoto completamente in ceramica con convogliatore intercambiabile.
- La scelta del disco e del convogliatore permette numerose combinazioni per ottimizzare al massimo il trattamento.
- Possibilità di equivalenze ISO.
- Adatto per l'utilizzo su atomizzatore.

- Hollowcone nozzle completely made in ceramic, with interchangeable core.
- Disc and core can be selected and matched in order to perfectly optimize spraying results.
- Possible ISO equivalent.
- Suitable for orchard sprayer.

- Boquilla cónica vacía completamente de cerámica con difusor intercambiable.
- La elección del disco y del encañalador permite numerosas combinaciones para optimizar al máximo el tratamiento.
- Posibilidad de equivalencias ISO.
- Adecuado para el uso en atomizador.



\*I colori indicati si riferiscono alle equivalenze di portata degli ugelli con misure standard ISO.  
Es: Lugello con foro Ø 2.2 e convogliatore NC13 ha portata simile ad un ugello Verde con misura 015.

\*Colour codes refer to flow rate equivalence of nozzles having standard ISO size.  
E.g.: The nozzle having a Ø 2.2 hole and NC13 core has a flow rate similar to a Green nozzle size 015.

\*Los colores indicados se refieren a las equivalencias de caudal de las boquillas con medidas estándar ISO.  
Por ej.: La boquilla con agujero Ø 2.2 y encañalador NC13 tiene caudal similar al de una boquilla Verde con medida 015.

| DC   | NC   |           | Angle<br>@ 3 bar | Angle<br>@ 10 bar | 2 bar | 3 bar | 4 bar | 5 bar | 6 bar | 7 bar | 8 bar | 9 bar | 10 bar | 15 bar | 20 bar |
|------|------|-----------|------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| DC08 | NC13 | 0.8       | 65               | 75                | 0.23  | 0.28  | 0.32  | 0.36  | 0.39  | 0.42  | 0.45  | 0.48  | 0.51   | 0.62   | 0.72   |
| DC10 |      | 1.0       | 72               | 85                | 0.28  | 0.34  | 0.39  | 0.44  | 0.48  | 0.51  | 0.55  | 0.58  | 0.62   | 0.75   | 0.87   |
| DC12 |      | 1.2       | 88               | 90                | 0.30  | 0.37  | 0.43  | 0.48  | 0.52  | 0.56  | 0.60  | 0.64  | 0.67   | 0.83   | 0.95   |
| DC15 |      | 1.5       | 65               | 95                | 0.38  | 0.46  | 0.54  | 0.60  | 0.66  | 0.71  | 0.76  | 0.80  | 0.85   | 1.04   | 1.20   |
| DC18 |      | 1.8       | 92               | 100               | 0.42  | 0.51  | 0.59  | 0.66  | 0.72  | 0.78  | 0.84  | 0.89  | 0.93   | 1.14   | 1.32   |
| DC20 |      | 2.0       | 100              | 105               | 0.45  | 0.55  | 0.64  | 0.71  | 0.78  | 0.84  | 0.90  | 0.95  | 1.00   | 0.95   | 2.19   |
| DC22 |      | * 015 2.2 | 92               | 95                | 0.47  | 0.58  | 0.67  | 0.75  | 0.82  | 0.89  | 0.95  | 1.00  | 1.06   | 1.30   | 1.50   |
| DC25 |      | 2.5       | 105              | 110               | 0.50  | 0.61  | 0.70  | 0.79  | 0.86  | 0.93  | 1.00  | 1.06  | 1.11   | 1.36   | 1.58   |
| DC08 | NC23 | 0.8       | 62               | 70                | 0.26  | 0.32  | 0.37  | 0.41  | 0.45  | 0.48  | 0.52  | 0.55  | 0.58   | 0.71   | 0.82   |
| DC10 |      | 1.0       | 72               | 85                | 0.29  | 0.36  | 0.41  | 0.46  | 0.51  | 0.55  | 0.59  | 0.62  | 0.66   | 0.80   | 0.93   |
| DC12 |      | * 01 1.2  | 80               | 85                | 0.35  | 0.42  | 0.49  | 0.55  | 0.60  | 0.65  | 0.69  | 0.73  | 0.77   | 0.95   | 1.09   |
| DC15 |      | 1.5       | 75               | 95                | 0.46  | 0.56  | 0.65  | 0.72  | 0.79  | 0.86  | 0.92  | 0.97  | 1.02   | 1.25   | 1.45   |
| DC18 |      | 1.8       | 90               | 95                | 0.52  | 0.64  | 0.74  | 0.82  | 0.90  | 0.97  | 1.04  | 1.11  | 1.16   | 1.43   | 1.65   |
| DC20 |      | * 02 2.0  | 90               | 100               | 0.58  | 0.72  | 0.83  | 0.92  | 1.01  | 1.09  | 1.17  | 1.24  | 1.31   | 1.60   | 1.85   |
| DC22 |      | 2.2       | 95               | 105               | 0.63  | 0.77  | 0.89  | 1.00  | 1.09  | 1.18  | 1.26  | 1.34  | 1.41   | 1.73   | 2.00   |
| DC25 |      | 2.5       | 102              | 110               | 0.69  | 0.85  | 0.98  | 1.10  | 1.20  | 1.30  | 1.39  | 1.47  | 1.55   | 1.90   | 2.19   |
| DC08 | NC25 | 0.8       | 45               | 50                | 0.41  | 0.50  | 0.57  | 0.64  | 0.70  | 0.76  | 0.81  | 0.86  | 0.91   | 1.11   | 1.28   |
| DC10 |      | 1.0       | 53               | 56                | 0.53  | 0.65  | 0.75  | 0.84  | 0.92  | 1.00  | 1.07  | 1.13  | 1.19   | 1.46   | 1.69   |
| DC12 |      | 1.2       | 62               | 65                | 0.64  | 0.79  | 0.91  | 1.02  | 1.11  | 1.20  | 1.29  | 1.36  | 1.44   | 1.76   | 2.03   |
| DC15 |      | *025 1.5  | 70               | 70                | 0.88  | 1.08  | 1.25  | 1.39  | 1.53  | 1.65  | 1.76  | 1.87  | 1.97   | 2.41   | 2.79   |
| DC18 |      | *035 1.8  | 75               | 75                | 1.10  | 1.35  | 1.56  | 1.74  | 1.91  | 2.06  | 2.20  | 2.34  | 2.46   | 3.02   | 3.48   |
| DC20 |      | *04 2.0   | 83               | 83                | 1.32  | 1.61  | 1.86  | 2.08  | 2.28  | 2.46  | 2.63  | 2.79  | 2.94   | 3.61   | 4.16   |
| DC22 |      | 2.2       | 95               | 95                | 1.48  | 1.82  | 2.10  | 2.34  | 2.57  | 2.77  | 2.96  | 3.14  | 3.31   | 4.06   | 4.69   |
| DC25 |      | *05 2.5   | 90               | 95                | 1.70  | 2.08  | 2.40  | 2.68  | 2.94  | 3.17  | 3.39  | 3.60  | 3.79   | 4.65   | 5.37   |
| DC08 | NC45 | 0.8       | 60               | 70                | 0.53  | 0.65  | 0.75  | 0.84  | 0.92  | 0.99  | 1.06  | 1.13  | 1.19   | 1.45   | 1.68   |
| DC10 |      | 1.0       | 45               | 55                | 0.59  | 0.73  | 0.84  | 0.94  | 1.03  | 1.11  | 1.18  | 1.26  | 1.32   | 1.62   | 1.87   |
| DC12 |      | 1.2       | 53               | 60                | 0.75  | 0.92  | 1.06  | 1.18  | 1.30  | 1.40  | 1.50  | 1.59  | 1.67   | 2.05   | 2.37   |
| DC15 |      | 1.5       | 73               | 70                | 1.06  | 1.30  | 1.50  | 1.67  | 1.83  | 1.98  | 2.12  | 2.25  | 2.37   | 2.90   | 3.35   |
| DC18 |      | 1.8       | 72               | 75                | 1.32  | 1.62  | 1.87  | 2.09  | 2.29  | 2.47  | 2.64  | 2.80  | 2.95   | 3.61   | 4.17   |
| DC20 |      | 2.0       | 75               | 83                | 1.58  | 1.93  | 2.23  | 2.49  | 2.73  | 2.95  | 3.15  | 3.34  | 3.52   | 4.31   | 4.98   |
| DC22 |      | 2.2       | 82               | 85                | 1.86  | 2.28  | 2.63  | 2.94  | 3.22  | 3.48  | 3.72  | 3.94  | 4.16   | 5.09   | 5.88   |
| DC25 |      | *06 2.5   | 88               | 90                | 2.07  | 2.54  | 2.93  | 3.28  | 3.59  | 3.88  | 4.15  | 4.40  | 4.64   | 5.68   | 6.56   |

## UGELLO PER LANCE AD ALTA PRESSIONE

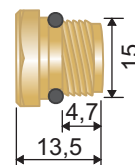
## NOZZLE FOR HIGH-PRESSURE SPRAY GUNS

## BOQUILLA PARA LANZAS DE ALTA PRESIÓN

Ugelli a cono  
Cone nozzles  
Boquillas de cono



Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



Ugello con corpo in ottone e inserto in ceramica, specifico per lance ad alta pressione.

Nozzle featuring brass body and ceramic insert, suitable for high-pressure spray guns.

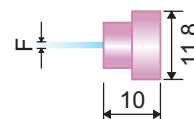
Boquilla con cuerpo de latón e inserción de cerámica, específica para lanzas de alta presión.

| Ø<br>(mm) | COD.    | l/min (Portate indicative degli ugelli a cono)<br>l/min (Indicative cone nozzle flow rates)<br>l/min (Caudales indicativos de las boquillas de cono) |       |        |       |        |       |        |       |        |       |        |       |        |       |
|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
|           |         | 10 bar                                                                                                                                               |       | 15 bar |       | 25 bar |       | 35 bar |       | 40 bar |       | 45 bar |       | 50 bar |       |
|           |         |                                                                                                                                                      |       |        |       |        |       |        |       |        |       |        |       |        |       |
| 0.8       | HP09008 | 1.41                                                                                                                                                 | 1.64  | 1.73   | 2.01  | 2.23   | 2.59  | 2.64   | 3.07  | 2.82   | 3.28  | 2.99   | 3.48  | 3.16   | 3.67  |
| 1.0       | HP09010 | 2.22                                                                                                                                                 | 2.30  | 2.72   | 2.82  | 3.51   | 3.64  | 4.16   | 4.30  | 4.44   | 4.60  | 4.71   | 4.88  | 4.97   | 5.14  |
| 1.2       | HP09012 | 3.01                                                                                                                                                 | 2.94  | 3.69   | 3.60  | 4.76   | 4.64  | 5.64   | 5.49  | 6.03   | 5.87  | 6.39   | 6.23  | 6.74   | 6.57  |
| 1.5       | HP09015 | 4.64                                                                                                                                                 | 4.22  | 5.69   | 5.17  | 7.34   | 6.68  | 8.69   | 7.90  | 9.29   | 8.45  | 9.85   | 8.96  | 10.38  | 9.44  |
| 1.8       | HP09018 | 6.32                                                                                                                                                 | 5.50  | 7.74   | 6.74  | 9.99   | 8.70  | 11.82  | 10.30 | 12.64  | 11.01 | 13.41  | 11.67 | 14.13  | 12.31 |
| 2.0       | HP09020 | 8.02                                                                                                                                                 | 6.75  | 9.83   | 8.27  | 12.69  | 10.68 | 15.01  | 12.64 | 16.05  | 13.51 | 17.02  | 14.33 | 17.94  | 15.10 |
| 2.2       | HP09022 | 9.11                                                                                                                                                 | 7.52  | 11.16  | 9.21  | 14.40  | 11.89 | 17.04  | 14.06 | 18.22  | 15.03 | 19.32  | 15.95 | 20.37  | 16.81 |
| 2.5       | HP09025 | 11.31                                                                                                                                                | 8.97  | 13.85  | 10.98 | 17.88  | 14.18 | 21.16  | 16.78 | 22.62  | 17.94 | 23.99  | 19.02 | 25.29  | 20.05 |
| 2.75      | HP09275 | 12.61                                                                                                                                                | 9.74  | 15.44  | 11.93 | 19.93  | 15.41 | 23.59  | 18.23 | 25.21  | 19.49 | 26.74  | 20.67 | 28.19  | 21.79 |
| 3.0       | HP09030 | 14.26                                                                                                                                                | 10.61 | 17.46  | 12.99 | 22.54  | 16.77 | 26.67  | 19.85 | 28.52  | 21.22 | 30.25  | 22.51 | 31.88  | 23.72 |
| 3.5       | HP09035 | 17.44                                                                                                                                                | 11.53 | 21.36  | 14.12 | 27.58  | 18.23 | 32.63  | 21.57 | 34.88  | 23.06 | 37.00  | 24.46 | 39.00  | 25.78 |
| 3.8       | HP09038 | 18.38                                                                                                                                                | 11.31 | 22.51  | 13.85 | 29.06  | 17.88 | 34.38  | 21.16 | 36.75  | 22.62 | 38.98  | 23.99 | 41.09  | 25.29 |

## SPRAY GUN NOZZLE



Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



| COD.    | F (mm) |
|---------|--------|
| HP06006 | 0.6    |
| HP06008 | 0.8    |
| HP06010 | 1.0    |
| HP06012 | 1.2    |
| HP06015 | 1.5    |
| HP06018 | 1.8    |
| HP06020 | 2.0    |
| HP06025 | 2.5    |
| HP06030 | 3.0    |

Ugello in ceramica per portagetti a farfalla su barre irroranti e lancia a leva.

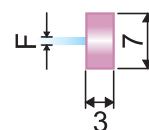
Ceramic nozzle for butterfly nozzle holders installed onto spraying booms and lever-controlled spray guns.

Boquilla de cerámica para porta-boquillas de mariposa en barras de riego y lanza de palanca.

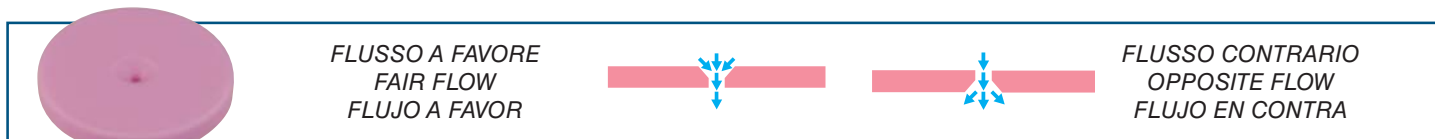


Inserto in ceramica.  
Ceramic insert.  
Inserción de cerámica.

Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



| COD.   | HP11008 | HP11010 | HP11012 | HP11015 | HP11018 | HP11020 | HP11022 | HP11025 | HP11275 | HP11030 | HP11035 | HP11038 | PACK |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| F (mm) | 0.8     | 1.0     | 1.2     | 1.5     | 1.8     | 2.0     | 2.2     | 2.5     | 2.75    | 3.0     | 3.5     | 3.8     | 100  |



Di seguito la tabella contenente i dati della portata delle **SOLE PIASTRINE**, con distinzione di portata con FLUSSO A FAVORE e con FLUSSO CONTRARIO.

The table below contains the rate data for **DISCS ONLY**, including the FAIR FLOW rate values and the OPPOSITE FLOW rate values.

A continuación se muestra una tabla que contiene los datos del caudal **SOLO DE LAS PLACAS**, con la distinción de caudal con FLUJO A FAVOR y con FLUJO EN CONTRA.

| Ø FORO<br>Ø HOLE<br>Ø AGUJERO | PIASTRINA Ø<br>DISC Ø<br>PLACA Ø<br>(mm) | COD.    | FLUSSO<br>FLOW<br>FLUJO | l/min |       |       |       |       |       |       |       |       |        |        |        |
|-------------------------------|------------------------------------------|---------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
|                               |                                          |         |                         | 1 bar | 2 bar | 3 bar | 4 bar | 5 bar | 6 bar | 7 bar | 8 bar | 9 bar | 10 bar | 15 bar | 20 bar |
| 0,8                           | 15                                       | HP15008 |                         | 0,48  | 0,67  | 0,83  | 0,95  | 1,07  | 1,17  | 1,26  | 1,35  | 1,43  | 1,51   | 1,84   | 2,13   |
|                               | 18                                       | HP18008 |                         |       |       |       |       |       |       |       |       |       |        |        |        |
|                               | 30                                       | HP30008 |                         | 0,38  | 0,53  | 0,65  | 0,75  | 0,84  | 0,92  | 0,99  | 1,06  | 1,13  | 1,19   | 1,46   | 1,68   |
| 1,0                           | 15                                       | HP15010 |                         | 0,62  | 0,88  | 1,08  | 1,24  | 1,39  | 1,52  | 1,65  | 1,76  | 1,87  | 1,97   | 2,41   | 2,78   |
|                               | 18                                       | HP18010 |                         |       |       |       |       |       |       |       |       |       |        |        |        |
|                               | 30                                       | HP30010 |                         | 0,48  | 0,68  | 0,84  | 0,97  | 1,08  | 1,18  | 1,28  | 1,37  | 1,45  | 1,53   | 1,87   | 2,16   |
| 1,2                           | 15                                       | HP15012 |                         | 1,02  | 1,45  | 1,77  | 2,04  | 2,29  | 2,50  | 2,71  | 2,89  | 3,07  | 3,23   | 3,96   | 4,57   |
|                               | 18                                       | HP18012 |                         |       |       |       |       |       |       |       |       |       |        |        |        |
|                               | 30                                       | HP30012 |                         | 0,80  | 1,13  | 1,39  | 1,60  | 1,79  | 1,96  | 2,12  | 2,27  | 2,41  | 2,54   | 3,11   | 3,59   |
| 1,5                           | 15                                       | HP15015 |                         | 1,46  | 2,07  | 2,54  | 2,93  | 3,27  | 3,59  | 3,87  | 4,14  | 4,39  | 4,63   | 5,67   | 6,55   |
|                               | 18                                       | HP18015 |                         |       |       |       |       |       |       |       |       |       |        |        |        |
|                               | 30                                       | HP30015 |                         | 1,01  | 1,43  | 1,75  | 2,03  | 2,26  | 2,48  | 2,68  | 2,86  | 3,04  | 3,20   | 3,92   | 4,53   |
| 1,8                           | 15                                       | HP15018 |                         | 2,20  | 3,11  | 3,82  | 4,41  | 4,93  | 5,40  | 5,83  | 6,23  | 6,61  | 6,97   | 8,53   | 9,85   |
|                               | 18                                       | HP18018 |                         |       |       |       |       |       |       |       |       |       |        |        |        |
|                               | 30                                       | HP30018 |                         | 1,57  | 2,22  | 2,73  | 3,15  | 3,52  | 3,85  | 4,16  | 4,45  | 4,72  | 4,98   | 6,09   | 7,04   |
| 2,0                           | 15                                       | HP15020 |                         | 2,57  | 3,64  | 4,46  | 5,14  | 5,75  | 6,30  | 6,81  | 7,27  | 7,72  | 8,13   | 9,96   | 11,50  |
|                               | 18                                       | HP18020 |                         |       |       |       |       |       |       |       |       |       |        |        |        |
|                               | 30                                       | HP30020 |                         | 1,76  | 2,49  | 3,05  | 3,52  | 3,94  | 4,31  | 4,66  | 4,98  | 5,28  | 5,57   | 6,82   | 7,88   |
| 2,5                           | 15                                       | HP15025 |                         | 2,93  | 4,14  | 5,07  | 5,86  | 6,55  | 7,18  | 7,75  | 8,29  | 8,79  | 9,26   | 11,35  | 13,10  |
|                               | 18                                       | HP18025 |                         |       |       |       |       |       |       |       |       |       |        |        |        |
|                               | 30                                       | HP30025 |                         | 2,76  | 3,90  | 4,78  | 5,52  | 6,17  | 6,76  | 7,30  | 7,80  | 8,27  | 8,72   | 10,68  | 12,33  |

| PARTICOLARI SINGOLI - INDIVIDUAL PARTS - COMPONENTES INDIVIDUALES                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      | KIT                |        |        |        |        |        |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------|--------|--------|--------|--------|--------|--|
|  |  |  |  |  |  | l/min              |        |        |        |        |        |  |
| FORO Ø<br>Ø HOLE<br>Ø AGUJERO<br>(mm)                                               | COD<br>PACK<br>100                                                                  | COD<br>PACK<br>100                                                                  | FLUSSO<br>FLOW<br>FLUJO<br>(mm)                                                     | COD<br>PACK<br>100                                                                  | COD<br>PACK<br>100                                                                   | COD<br>PACK<br>100 | 10 bar | 15 bar | 20 bar | 30 bar | 40 bar |  |
| Ø 15 mm                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                    |        |        |        |        |        |  |
| 0,8                                                                                 | HP15008                                                                             | HP15100                                                                             | *closed                                                                             | HP15200                                                                             | HP15300                                                                              | HP1500800          | 1,00   | 1,22   | 1,41   | 1,73   | 2,00   |  |
| 1,0                                                                                 | HP15010                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                      | HP1501000          | 1,27   | 1,56   | 1,80   | 2,20   | 2,54   |  |
| 1,2                                                                                 | HP15012                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                      | HP1501200          | 1,73   | 2,12   | 2,45   | 3,00   | 3,46   |  |
| 1,5                                                                                 | HP15015                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                      | HP1501500          | 2,25   | 2,76   | 3,18   | 3,90   | 4,50   |  |
| 1,8                                                                                 | HP15018                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                      | HP1501800          | 3,08   | 3,77   | 4,36   | 5,33   | 6,16   |  |
| 2,0                                                                                 | HP15020                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                      | HP1502000          | 3,27   | 4,00   | 4,62   | 5,66   | 6,54   |  |
| 2,5                                                                                 | HP15025                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                      | HP1502500          | 3,95   | 4,84   | 5,59   | 6,84   | 7,90   |  |

\*Convogliatore disponibile anche con foro:

\*Core also available with hole:

\*Difusor disponible también con orificio:



| COD     | F      | PACK |
|---------|--------|------|
| HP15210 | 1,0 mm | 100  |
| HP15212 | 1,2 mm |      |
| HP15215 | 1,5 mm |      |
| HP15218 | 1,8 mm |      |

NEW

| PARTICOLARI SINGOLI - INDIVIDUAL PARTS - COMPONENTES INDIVIDUALES                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | KIT                                                                               |                                                                                    |           |        |        |        |        |       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------|--------|--------|--------|--------|-------|
|  |  |  |  |  |  |  |  | l/min     |        |        |        |        |       |
| FORO Ø<br>Ø HOLE<br>Ø AGUJERO<br>(mm)                                            | COD<br>PACK<br>100                                                                | COD<br>PACK<br>100                                                                | FLUSSO<br>FLOW<br>FLUJO<br>(mm)                                                   | COD<br>PACK<br>100                                                                | COD<br>PACK<br>100                                                                | COD<br>PACK<br>100                                                                |                                                                                    | 10 bar    | 15 bar | 20 bar | 30 bar | 40 bar |       |
| Ø 18 mm                                                                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |           |        |        |        |        |       |
| 0,8                                                                              | HP18008                                                                           | HP18100                                                                           | closed                                                                            | HP18200                                                                           | HP18300                                                                           | HP1800800                                                                         | 1,04                                                                               | 1,28      | 1,48   | 1,81   | 2,09   |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,0                                                                               | HP18210                                                                           |                                                                                   | HP1800810                                                                         | 1,39                                                                               | 1,70      | 1,96   | 2,40   | 2,78   |        |       |
| 1,0                                                                              | HP18010                                                                           |                                                                                   | closed                                                                            | HP18200                                                                           |                                                                                   | HP1801000                                                                         | 1,39                                                                               | 1,70      | 1,97   | 2,41   | 2,78   |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,0                                                                               | HP18210                                                                           |                                                                                   | HP1801010                                                                         | 2,03                                                                               | 2,48      | 2,87   | 3,51   | 4,06   |        |       |
| 1,2                                                                              | HP18012                                                                           |                                                                                   | closed                                                                            | HP18200                                                                           |                                                                                   | HP1801200                                                                         | 1,75                                                                               | 2,14      | 2,47   | 3,03   | 3,50   |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,0                                                                               | HP18210                                                                           |                                                                                   | HP1801210                                                                         | 2,92                                                                               | 3,57      | 4,13   | 5,05   | 5,84   |        |       |
| 1,2                                                                              | HP18012                                                                           |                                                                                   | 1,2                                                                               | HP18212                                                                           |                                                                                   | HP1801212                                                                         | 2,99                                                                               | 3,66      | 4,23   | 5,18   | 5,98   |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,5                                                                               | HP18015                                                                           |                                                                                   | closed                                                                            | HP18200                                                                            | HP1801500 | 2,52   | 3,09   | 3,56   | 4,36   | 5,04  |
|                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 1,0                                                                               | HP18210                                                                            | HP1801510 | 3,67   | 4,49   | 5,19   | 6,36   | 7,34  |
|                                                                                  |                                                                                   |                                                                                   | 1,2                                                                               | HP18212                                                                           |                                                                                   | HP1801512                                                                         | 3,77                                                                               | 4,61      | 5,33   | 6,52   | 7,53   |        |       |
| 1,5                                                                              | HP18015                                                                           |                                                                                   | 1,5                                                                               | HP18215                                                                           |                                                                                   | HP1801515                                                                         | 4,24                                                                               | 5,20      | 6,00   | 7,35   | 8,48   |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,8                                                                               | HP18018                                                                           |                                                                                   | closed                                                                            | HP18200                                                                            | HP1801800 | 2,92   | 3,58   | 4,14   | 5,06   | 5,85  |
|                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 1,2                                                                               | HP18212                                                                            | HP1801812 | 5,39   | 6,60   | 7,62   | 9,34   | 10,78 |
|                                                                                  |                                                                                   |                                                                                   | 1,5                                                                               | HP18215                                                                           |                                                                                   | HP1801815                                                                         | 5,81                                                                               | 7,12      | 8,22   | 10,07  | 11,63  |        |       |
| 2,0                                                                              | HP18020                                                                           |                                                                                   | 1,8                                                                               | HP18218                                                                           |                                                                                   | HP1801818                                                                         | 5,91                                                                               | 7,23      | 8,35   | 10,23  | 11,81  |        |       |
|                                                                                  |                                                                                   |                                                                                   | closed                                                                            | HP18200                                                                           |                                                                                   | HP1802000                                                                         | 3,51                                                                               | 4,30      | 4,96   | 6,08   | 7,02   |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,5                                                                               | HP18215                                                                           |                                                                                   | HP1802015                                                                         | 6,43                                                                               | 7,88      | 9,10   | 11,14  | 12,87  |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,8                                                                               | HP18218                                                                           |                                                                                   | HP1802018                                                                         | 6,92                                                                               | 8,48      | 9,79   | 11,99  | 13,85  |        |       |
| 2,5                                                                              | HP18025                                                                           |                                                                                   | 2,0                                                                               | HP18220                                                                           |                                                                                   | HP1802020                                                                         | 7,47                                                                               | 9,15      | 10,57  | 12,95  | 14,95  |        |       |
|                                                                                  |                                                                                   |                                                                                   | closed                                                                            | HP18200                                                                           |                                                                                   | HP1802500                                                                         | 4,11                                                                               | 5,04      | 5,82   | 7,12   | 8,22   |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,5                                                                               | HP18215                                                                           |                                                                                   | HP1802515                                                                         | 7,47                                                                               | 9,15      | 10,57  | 12,95  | 14,95  |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,8                                                                               | HP18218                                                                           |                                                                                   | HP1802518                                                                         | 8,34                                                                               | 10,21     | 11,79  | 14,45  | 16,68  |        |       |
| 2,0                                                                              | HP18220                                                                           |                                                                                   | HP1802520                                                                         | 8,89                                                                              |                                                                                   | 10,89                                                                             | 12,57                                                                              | 15,40     | 17,78  |        |        |        |       |
| Ø 30 mm                                                                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |           |        |        |        |        |       |
| 0,8                                                                              | HP30008                                                                           | HP30100                                                                           | closed                                                                            | HP30200                                                                           | HP30300                                                                           | HP3000800                                                                         | 1,04                                                                               | 1,28      | 1,48   | 1,81   | 2,09   |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,0                                                                               | HP30210                                                                           |                                                                                   | HP3000810                                                                         | 1,39                                                                               | 1,70      | 1,96   | 2,40   | 2,78   |        |       |
| 1,0                                                                              | HP30010                                                                           |                                                                                   | closed                                                                            | HP30200                                                                           |                                                                                   | HP3001000                                                                         | 1,39                                                                               | 1,70      | 1,97   | 2,41   | 2,78   |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,0                                                                               | HP30210                                                                           |                                                                                   | HP3001010                                                                         | 2,03                                                                               | 2,48      | 2,87   | 3,51   | 4,06   |        |       |
| 1,2                                                                              | HP30012                                                                           |                                                                                   | closed                                                                            | HP30200                                                                           |                                                                                   | HP3001200                                                                         | 1,75                                                                               | 2,14      | 2,47   | 3,03   | 3,50   |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,0                                                                               | HP30210                                                                           |                                                                                   | HP3001210                                                                         | 2,92                                                                               | 3,57      | 4,13   | 5,05   | 5,84   |        |       |
| 1,2                                                                              | HP30012                                                                           |                                                                                   | 1,2                                                                               | HP30212                                                                           |                                                                                   | HP3001212                                                                         | 2,99                                                                               | 3,66      | 4,23   | 5,18   | 5,98   |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,5                                                                               | HP30015                                                                           |                                                                                   | closed                                                                            | HP30200                                                                            | HP3001500 | 2,52   | 3,09   | 3,56   | 4,36   | 5,04  |
|                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 1,0                                                                               | HP30210                                                                            | HP3001510 | 3,67   | 4,49   | 5,19   | 6,36   | 7,34  |
|                                                                                  |                                                                                   |                                                                                   | 1,2                                                                               | HP30212                                                                           |                                                                                   | HP3001512                                                                         | 3,77                                                                               | 4,61      | 5,33   | 6,52   | 7,53   |        |       |
| 1,5                                                                              | HP30015                                                                           |                                                                                   | 1,5                                                                               | HP30215                                                                           |                                                                                   | HP3001515                                                                         | 4,24                                                                               | 5,20      | 6,00   | 7,35   | 8,48   |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,8                                                                               | HP30018                                                                           |                                                                                   | closed                                                                            | HP30200                                                                            | HP3001800 | 2,92   | 3,58   | 4,14   | 5,06   | 5,85  |
|                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 1,2                                                                               | HP30212                                                                            | HP3001812 | 5,39   | 6,60   | 7,62   | 9,34   | 10,78 |
|                                                                                  |                                                                                   |                                                                                   | 1,5                                                                               | HP30215                                                                           |                                                                                   | HP3001815                                                                         | 5,81                                                                               | 7,12      | 8,22   | 10,07  | 11,63  |        |       |
| 2,0                                                                              | HP30020                                                                           |                                                                                   | 1,8                                                                               | HP30218                                                                           |                                                                                   | HP3001818                                                                         | 5,91                                                                               | 7,23      | 8,35   | 10,23  | 11,81  |        |       |
|                                                                                  |                                                                                   |                                                                                   | closed                                                                            | HP30200                                                                           |                                                                                   | HP3002000                                                                         | 3,51                                                                               | 4,30      | 4,96   | 6,08   | 7,02   |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,5                                                                               | HP30215                                                                           |                                                                                   | HP3002015                                                                         | 6,43                                                                               | 7,88      | 9,10   | 11,14  | 12,87  |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,8                                                                               | HP30218                                                                           |                                                                                   | HP3002018                                                                         | 6,92                                                                               | 8,48      | 9,79   | 11,99  | 13,85  |        |       |
| 2,5                                                                              | HP30025                                                                           |                                                                                   | 2,0                                                                               | HP30220                                                                           |                                                                                   | HP3002020                                                                         | 7,47                                                                               | 9,15      | 10,57  | 12,95  | 14,95  |        |       |
|                                                                                  |                                                                                   |                                                                                   | closed                                                                            | HP30200                                                                           |                                                                                   | HP3002500                                                                         | 4,11                                                                               | 5,04      | 5,82   | 7,12   | 8,22   |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,5                                                                               | HP30215                                                                           |                                                                                   | HP3002515                                                                         | 7,47                                                                               | 9,15      | 10,57  | 12,95  | 14,95  |        |       |
|                                                                                  |                                                                                   |                                                                                   | 1,8                                                                               | HP30218                                                                           |                                                                                   | HP3002518                                                                         | 8,34                                                                               | 10,21     | 11,79  | 14,45  | 16,68  |        |       |
| 2,0                                                                              | HP30220                                                                           |                                                                                   | HP3002520                                                                         | 8,89                                                                              |                                                                                   | 10,89                                                                             | 12,57                                                                              | 15,40     | 17,78  |        |        |        |       |

A fianco sono indicate le portate delle diverse combinazioni possibili di piastrina e convogliatore.

The table on the side indicates the rate values for the different possible combinations of disc and conveyor.

Al lado se indican los caudales de las distintas combinaciones posibles de placa y difusor.



## UGELLI A SPECCHIO

Gli ugelli a specchio o a getto ampio sono così definiti perché costituiti da un condotto rettilineo che costringe il liquido in uscita a colpire con forza una superficie contrapposta (deflettore) ed opportunamente inclinata rispetto al foro. Il liquido, colpisce e scivola sulla superficie a specchio allargandosi in un ventaglio piuttosto ampio e piatto. Le pressioni di lavoro sono relativamente basse e le gocce sono di dimensioni medio-grandi.

Deflector



## FLOOD NOZZLES

Flood nozzles consist of a straight duct which forces the fluid to heavily hit an opposite surface duly inclined to nozzle hole (flood plate). Once the fluid has been sprayed out, it hits the flood surface taking the shape of a rather wide and flat fan. Operating pressure is quite low and drops are big-medium sized.

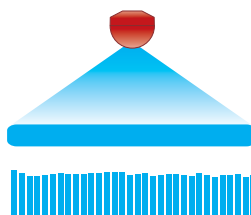


Diagramma di distribuzione  
Spraying diagram  
Diagrama de distribución

## BOQUILLAS DE ESPEJO

Las boquillas de espejo o de chorro amplio reciben ese nombre porque están formadas por un conducto rectilíneo que obliga al líquido cuando sale a golpear con fuerza una superficie contrapuesta (deflector) y debidamente inclinada respecto al orificio. El líquido golpea y se desliza sobre la superficie de espejo, extendiéndose en un abanico más bien amplio y plano. Las presiones de trabajo son relativamente bajas y las gotas son de dimensiones medio-grandes.

La nebulizzazione a pressioni molto basse determina la formazione di goccioline medio-grandi (400 ÷ 100 µm) con piccolissima quantità di gocce fini.

Data l'ampiezza dell'angolo di lavoro, questi ugelli possono essere montati su barre di distribuzione, ma rispetto agli ugelli a ventaglio 110° la distanza fra loro può essere maggiore (0.5 ÷ 1.5m). Anche l'altezza di lavoro dovrà essere variata a seconda dell'angolo, in quanto è richiesta una sovrapposizione del 10% tra due ugelli contigui per ottenere una distribuzione uniforme.

Very low spraying pressures produce big-medium sized drops (400 to 100 µm) and a very small amount of thinner droplets.

Given the width of the job angle, these nozzles can be installed on spraying booms, but compared to 110° fan nozzles, the distance between them can be greater (0.5 ÷ 1.5m). Even working height depends on applied spraying angle, as a 10% overlapping between two adjacent nozzles is required for a smooth spraying.

La nebulización a muy bajas presiones determina la formación de gotitas medio-grandes (400 ÷ 100 µm) con una cantidad de gotas finas muy pequeña.

Dada la amplitud del ángulo de trabajo, estas boquillas pueden ser montadas en barras de distribución, pero respecto a las boquillas de abanico 110° la distancia entre tiene que ser mayor (de 0,50 m a 1,5 m). También la altura de trabajo tiene que ser modificada según el ángulo, puesto que se requiere una superposición del 10% entre dos boquillas contiguas para obtener una distribución uniforme.

| cm  | h (cm) |      |      |
|-----|--------|------|------|
|     | 125°   | 130° | 140° |
| 80  | 23     | 21   | 16   |
| 85  | 25     | 22   | 17   |
| 90  | 26     | 23   | 18   |
| 95  | 28     | 25   | 19   |
| 100 | 29     | 26   | 20   |
| 105 | 30     | 27   | 21   |
| 110 | 32     | 28   | 22   |
| 115 | 33     | 30   | 23   |
| 120 | 35     | 31   | 24   |
| 125 | 36     | 32   | 25   |
| 130 | 38     | 34   | 26   |
| 135 | 39     | 35   | 27   |
| 140 | 41     | 36   | 28   |
| 145 | 42     | 38   | 29   |
| 150 | 43     | 39   | 30   |

Corretta altezza di posizionamento dal bersaglio degli ugelli a cono (h)

Correct height of flood nozzles from the target (h)

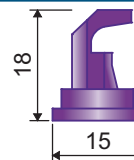
Correcta altura de posicionamiento del objetivo de las boquillas de cono (h)



Utilizzo  
Use  
Utilización



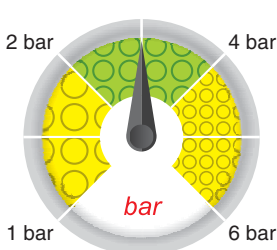
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



- Produce gocce grandi, utili per ridurre la deriva quando si lavora alla pressione nominale di 1 bar.
- Le misure più piccole dell'ugello sono particolarmente adatte per applicare diserbanti a basso volume, dove l'applicazione di ridotte quantità di prodotto si trasforma in un notevole risparmio di costi.
- Stampato in Delrin®, ad alta stabilità chimica, che conferisce ottime caratteristiche di durata.
- Adatto per l'utilizzo con pompa a spalla.

- They spray big drops offering benefits when working at the rated pressure of 1 bar as less prone to drift.
- The smaller sizes are especially suitable for spraying low volumes of herbicides, which also ensures a remarkable cost reduction.
- Made of molded Delrin®, a polymer ensuring high chemical stability and an exceptionally long useful life.
- Suitable for knapsack pump.

- Produce gotas grandes, útiles para reducir la deriva cuando se trabaja con una presión nominal de 1 bar.
- Las medidas más pequeñas de la boquilla son particularmente adecuadas para aplicar herbicidas en bajo volumen, donde la aplicación de reducidas de producto se transforma en notable ahorro de costos.
- Moldeado en Delrin®, material con alta estabilidad química, que otorga excepcionales características de duración.
- Adecuado para el uso con bomba de mochila.



Copertura  
Spray coverage  
Cobertura

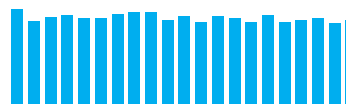
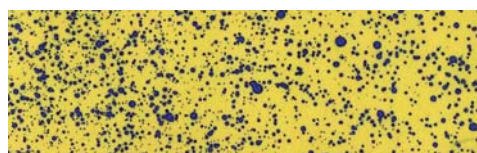


Diagramma di distribuzione ugello singolo  
Single nozzle distribution pattern  
Diagrama de distribución boquilla individual



Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco

| COD.<br>CODE<br>CÓD. |  |  |  |  | l/ha (spazio tra gli ugelli: 50 cm)<br>l/ha (nozzle spacing: 50 cm)<br>l/ha (espacio entre las boquillas: 50 cm) |        |         |         |         |         |         |         |  Pompa a spalla<br>Knapsack pump<br>Pulverizador de mochila<br>l/ha @ 60 m/min (3.6 km/h)<br>L 115 cm / α 125° L 130 cm / α 130° |     |
|----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|---------|---------|---------|---------|---------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 6 km/h                                                                                                           | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h |                                                                                                                                                                                                                     |     |
| DEF01                | ---                                                                               | 1                                                                                 | M                                                                                 | 0.23                                                                              | 46                                                                                                               | 35     | 28      | 23      | 20      | 17      | 15      | 14      | 33                                                                                                                                                                                                                  | --  |
|                      | ---                                                                               | 2                                                                                 | F                                                                                 | 0.33                                                                              | 65                                                                                                               | 49     | 39      | 33      | 28      | 24      | 22      | 20      | 47                                                                                                                                                                                                                  | --  |
|                      | 125°                                                                              | 3                                                                                 | F                                                                                 | 0.40                                                                              | 80                                                                                                               | 60     | 48      | 40      | 34      | 30      | 27      | 24      | 58                                                                                                                                                                                                                  | --  |
|                      | ---                                                                               | 4                                                                                 | F                                                                                 | 0.46                                                                              | 92                                                                                                               | 69     | 55      | 46      | 40      | 35      | 31      | 28      | 67                                                                                                                                                                                                                  | --  |
|                      | ---                                                                               | 6                                                                                 | F                                                                                 | 0.57                                                                              | 113                                                                                                              | 85     | 68      | 57      | 48      | 42      | 38      | 34      | 82                                                                                                                                                                                                                  | --  |
| DEF015               | ---                                                                               | 1                                                                                 | M                                                                                 | 0.35                                                                              | 69                                                                                                               | 52     | 42      | 35      | 30      | 26      | 23      | 21      | 50                                                                                                                                                                                                                  | --  |
|                      | ---                                                                               | 2                                                                                 | M                                                                                 | 0.49                                                                              | 98                                                                                                               | 73     | 59      | 49      | 42      | 37      | 33      | 29      | 71                                                                                                                                                                                                                  | --  |
|                      | 125°                                                                              | 3                                                                                 | F                                                                                 | 0.60                                                                              | 120                                                                                                              | 90     | 72      | 60      | 51      | 45      | 40      | 36      | 87                                                                                                                                                                                                                  | --  |
|                      | ---                                                                               | 4                                                                                 | F                                                                                 | 0.69                                                                              | 139                                                                                                              | 104    | 83      | 69      | 59      | 52      | 46      | 42      | 100                                                                                                                                                                                                                 | --  |
|                      | ---                                                                               | 6                                                                                 | F                                                                                 | 0.85                                                                              | 170                                                                                                              | 127    | 102     | 85      | 73      | 64      | 57      | 51      | 123                                                                                                                                                                                                                 | --  |
| DEF02                | ---                                                                               | 1                                                                                 | M                                                                                 | 0.46                                                                              | 92                                                                                                               | 69     | 55      | 46      | 40      | 35      | 31      | 28      | --                                                                                                                                                                                                                  | 59  |
|                      | ---                                                                               | 2                                                                                 | F                                                                                 | 0.65                                                                              | 131                                                                                                              | 98     | 78      | 65      | 56      | 49      | 44      | 39      | --                                                                                                                                                                                                                  | 84  |
|                      | 130°                                                                              | 3                                                                                 | F                                                                                 | 0.80                                                                              | 160                                                                                                              | 120    | 96      | 80      | 69      | 60      | 53      | 48      | --                                                                                                                                                                                                                  | 103 |
|                      | ---                                                                               | 4                                                                                 | F                                                                                 | 0.92                                                                              | 185                                                                                                              | 139    | 111     | 92      | 79      | 69      | 62      | 55      | --                                                                                                                                                                                                                  | 118 |
|                      | ---                                                                               | 6                                                                                 | F                                                                                 | 1.13                                                                              | 226                                                                                                              | 170    | 136     | 113     | 97      | 85      | 75      | 68      | --                                                                                                                                                                                                                  | 145 |
| DEF025               | ---                                                                               | 1                                                                                 | M                                                                                 | 0.58                                                                              | 115                                                                                                              | 87     | 69      | 58      | 49      | 43      | 38      | 35      | --                                                                                                                                                                                                                  | 74  |
|                      | ---                                                                               | 2                                                                                 | F                                                                                 | 0.82                                                                              | 163                                                                                                              | 122    | 98      | 82      | 70      | 61      | 54      | 49      | --                                                                                                                                                                                                                  | 105 |
|                      | 130°                                                                              | 3                                                                                 | F                                                                                 | 1.00                                                                              | 200                                                                                                              | 150    | 120     | 100     | 86      | 75      | 67      | 60      | --                                                                                                                                                                                                                  | 128 |
|                      | ---                                                                               | 4                                                                                 | F                                                                                 | 1.15                                                                              | 231                                                                                                              | 173    | 139     | 115     | 99      | 87      | 77      | 69      | --                                                                                                                                                                                                                  | 148 |
|                      | ---                                                                               | 6                                                                                 | F                                                                                 | 1.41                                                                              | 283                                                                                                              | 212    | 170     | 141     | 121     | 106     | 94      | 85      | --                                                                                                                                                                                                                  | 181 |
| DEF03                | ---                                                                               | 1                                                                                 | M                                                                                 | 0.69                                                                              | 139                                                                                                              | 104    | 83      | 69      | 59      | 52      | 46      | 42      | --                                                                                                                                                                                                                  | 89  |
|                      | ---                                                                               | 2                                                                                 | F                                                                                 | 0.98                                                                              | 196                                                                                                              | 147    | 118     | 98      | 84      | 73      | 65      | 59      | --                                                                                                                                                                                                                  | 126 |
|                      | 130°                                                                              | 3                                                                                 | F                                                                                 | 1.20                                                                              | 240                                                                                                              | 180    | 144     | 120     | 103     | 90      | 80      | 72      | --                                                                                                                                                                                                                  | 154 |
|                      | ---                                                                               | 4                                                                                 | F                                                                                 | 1.39                                                                              | 277                                                                                                              | 208    | 166     | 139     | 119     | 104     | 92      | 83      | --                                                                                                                                                                                                                  | 178 |
|                      | ---                                                                               | 6                                                                                 | F                                                                                 | 1.70                                                                              | 339                                                                                                              | 255    | 204     | 170     | 145     | 127     | 113     | 102     | --                                                                                                                                                                                                                  | 218 |
| DEF04                | ---                                                                               | 1                                                                                 | M                                                                                 | 0.92                                                                              | 185                                                                                                              | 139    | 111     | 92      | 79      | 69      | 62      | 55      | --                                                                                                                                                                                                                  | 118 |
|                      | ---                                                                               | 2                                                                                 | F                                                                                 | 1.31                                                                              | 261                                                                                                              | 196    | 157     | 131     | 112     | 98      | 87      | 78      | --                                                                                                                                                                                                                  | 167 |
|                      | 130°                                                                              | 3                                                                                 | F                                                                                 | 1.60                                                                              | 320                                                                                                              | 240    | 192     | 160     | 137     | 120     | 107     | 96      | --                                                                                                                                                                                                                  | 205 |
|                      | ---                                                                               | 4                                                                                 | F                                                                                 | 1.85                                                                              | 370                                                                                                              | 277    | 222     | 185     | 158     | 139     | 123     | 111     | --                                                                                                                                                                                                                  | 237 |
|                      | ---                                                                               | 6                                                                                 | F                                                                                 | 2.26                                                                              | 453                                                                                                              | 339    | 272     | 226     | 194     | 170     | 151     | 136     | --                                                                                                                                                                                                                  | 290 |
| DEF05                | ---                                                                               | 1                                                                                 | M                                                                                 | 1.15                                                                              | 231                                                                                                              | 173    | 139     | 115     | 99      | 87      | 77      | 69      | --                                                                                                                                                                                                                  | 148 |
|                      | ---                                                                               | 2                                                                                 | M                                                                                 | 1.63                                                                              | 327                                                                                                              | 245    | 196     | 163     | 140     | 122     | 109     | 98      | --                                                                                                                                                                                                                  | 209 |
|                      | 130°                                                                              | 3                                                                                 | M                                                                                 | 2.00                                                                              | 400                                                                                                              | 300    | 240     | 200     | 171     | 150     | 133     | 120     | --                                                                                                                                                                                                                  | 256 |
|                      | ---                                                                               | 4                                                                                 | M                                                                                 | 2.31                                                                              | 462                                                                                                              | 346    | 277     | 231     | 198     | 173     | 154     | 139     | --                                                                                                                                                                                                                  | 296 |
|                      | ---                                                                               | 6                                                                                 | F                                                                                 | 2.83                                                                              | 566                                                                                                              | 424    | 339     | 283     | 242     | 212     | 189     | 170     | --                                                                                                                                                                                                                  | 363 |
| DEF06                | ---                                                                               | 1                                                                                 | M                                                                                 | 1.39                                                                              | 277                                                                                                              | 208    | 166     | 139     | 119     | 104     | 92      | 83      | --                                                                                                                                                                                                                  | 178 |
|                      | ---                                                                               | 2                                                                                 | M                                                                                 | 1.96                                                                              | 392                                                                                                              | 294    | 235     | 196     | 168     | 147     | 131     | 118     | --                                                                                                                                                                                                                  | 251 |
|                      | 130°                                                                              | 3                                                                                 | M                                                                                 | 2.40                                                                              | 480                                                                                                              | 360    | 288     | 240     | 206     | 180     | 160     | 144     | --                                                                                                                                                                                                                  | 308 |
|                      | ---                                                                               | 4                                                                                 | M                                                                                 | 2.77                                                                              | 554                                                                                                              | 416    | 333     | 277     | 238     | 208     | 185     | 166     | --                                                                                                                                                                                                                  | 355 |
|                      | ---                                                                               | 6                                                                                 | M                                                                                 | 3.39                                                                              | 679                                                                                                              | 509    | 407     | 339     | 291     | 255     | 226     | 204     | --                                                                                                                                                                                                                  | 435 |
| DEF08                | ---                                                                               | 1                                                                                 | M                                                                                 | 1.85                                                                              | 370                                                                                                              | 277    | 222     | 185     | 158     | 139     | 123     | 111     | --                                                                                                                                                                                                                  | 237 |
|                      | ---                                                                               | 2                                                                                 | M                                                                                 | 2.61                                                                              | 523                                                                                                              | 392    | 314     | 261     | 224     | 196     | 174     | 157     | --                                                                                                                                                                                                                  | 335 |
|                      | 130°                                                                              | 3                                                                                 | M                                                                                 | 3.20                                                                              | 640                                                                                                              | 480    | 384     | 320     | 274     | 240     | 213     | 192     | --                                                                                                                                                                                                                  | 410 |
|                      | ---                                                                               | 4                                                                                 | M                                                                                 | 3.70                                                                              | 739                                                                                                              | 554    | 443     | 370     | 317     | 277     | 246     | 222     | --                                                                                                                                                                                                                  | 474 |
|                      | ---                                                                               | 6                                                                                 | M                                                                                 | 4.53                                                                              | 905                                                                                                              | 679    | 543     | 453     | 388     | 339     | 302     | 272     | --                                                                                                                                                                                                                  | 580 |
| DEF10                | ---                                                                               | 1                                                                                 | C                                                                                 | 2.31                                                                              | 462                                                                                                              | 346    | 277     | 231     | 198     | 173     | 154     | 139     | --                                                                                                                                                                                                                  | 296 |
|                      | ---                                                                               | 2                                                                                 | M                                                                                 | 3.27                                                                              | 653                                                                                                              | 490    | 392     | 327     | 280     | 245     | 218     | 196     | --                                                                                                                                                                                                                  | 419 |
|                      | 130°                                                                              | 3                                                                                 | M                                                                                 | 4.00                                                                              | 800                                                                                                              | 600    | 480     | 400     | 343     | 300     | 267     | 240     | --                                                                                                                                                                                                                  | 513 |
|                      | ---                                                                               | 4                                                                                 | M                                                                                 | 4.62                                                                              | 924                                                                                                              | 693    | 554     | 462     | 396     | 346     | 308     | 277     | --                                                                                                                                                                                                                  | 592 |
|                      | ---                                                                               | 6                                                                                 | M                                                                                 | 5.66                                                                              | 1131                                                                                                             | 849    | 679     | 566     | 485     | 424     | 377     | 339     | --                                                                                                                                                                                                                  | 725 |



**DIMENSIONE DELLE GOCCE**  
**DROP SIZE RATING**  
**DIMENSIONES DE LAS GOTAS**

|   |                      |
|---|----------------------|
| F | Fine-Fine-Fina       |
| M | Media-Medium-Media   |
| C | Grossa-Coarse-Gruesa |

Classificazione in accordo con lo standard ASABE  
S572.3 e la norma ISO25358

Classification according to ASABE S572.3 and  
ISO25358

Clasificación según ASABE S572.3 e ISO25358

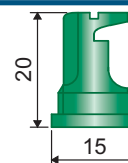
# DEF 140 DEFLECTOR 140



## Utilizzo Use Utilización



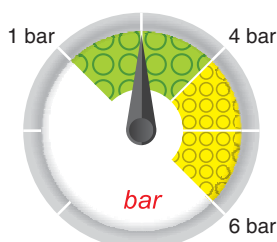
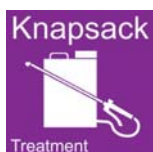
## Dimensioni (mm) Size (mm) Dimensiones (mm)



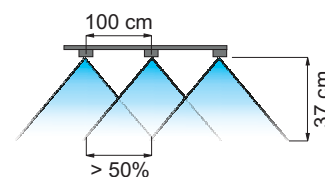
- Intasamento ridotto grazie all'ingresso tondo di ampie dimensioni.
- Produce gocce grandi riducendo così la deriva, specialmente quando si lavora a basse pressioni (1 ÷ 2 bar).
- Il corpo è dotato di una scanalatura per il cacciavite che permette di allineare perfettamente l'ugello all'interno della testina.
- Adatto per il trattamento con piccole barre di diserbo (es. per trattamenti su campi da golf). La grande ampiezza dell'angolo permette agli ugelli di essere distanziati ad intervalli di 1 m e quindi di ridurre drasticamente il numero di ugelli necessari al trattamento.
- Stampato in Delrin®, ad alta stabilità chimica, che conferisce ottime caratteristiche di durata.
- Adatto per l'utilizzo con pompa a spalla.

- Reduced clogging degree thanks to the wide round input.
- They supply big drops, thus reducing drift especially at low working pressure (1 - 2 bars).
- Nozzle bodies have a slot for a screwdriver so that they can be perfectly aligned into the tip.
- Suitable for small crop spraying booms (for example for spraying golf courses). Thanks to their wide spraying angle, only one nozzle each meter is needed, thus dramatically reducing the number of nozzles needed for the job.
- Made of molded Delrin®, a polymer ensuring high chemical stability and an exceptionally long useful life.
- Suitable for knapsack pump.

- Atascamiento reducido gracias a la entrada redonda de amplias dimensiones.
- Produce gotas grandes reduciendo de esta manera la deriva, especialmente cuando se trabaja con bajas presiones (1 ÷ 2 bar).
- El cuerpo está dotado de una acanaladura para el destornillador que permite alinear perfectamente la boquilla dentro de la cabeza.
- Adecuado para el tratamiento con pequeñas barras de herbicida (ej. para tratamientos en campos de golf). La gran amplitud angular permite que las boquillas sean separadas con intervalos de 1 m y por lo tanto reducir notablemente el número de boquillas necesarias para el tratamiento.
- Moldeado en Delrin®, material con alta estabilidad química, que otorga excepcionales características de duración.
- Adecuado para el uso con bomba de mochila.



Copertura  
Spray coverage  
Cobertura



Distanza sulla barra  
Boom spacing  
Distancia en la barra

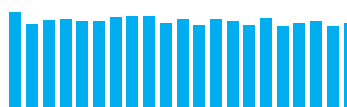
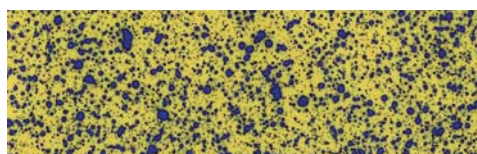


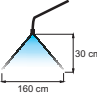
Diagramma di distribuzione ugello singolo  
Single nozzle distribution pattern  
Diagrama de distribución boquilla individual



Dimensione delle gocce su bersaglio  
Drop size pattern on target  
Dimensiones de las gotas en el blanco

# DEFLECTOR 140 DEF 140

Ugelli a specchio  
Flood nozzles  
Boquillas de espejo

| COD.<br>CODE<br>CÓD. |  |  |  | l/ha (spazio tra gli ugelli: 100 cm)<br>l/ha (nozzle spacing: 100 cm)<br>l/ha (espacio entre las boquillas: 100 cm) |        |         |         |         |         |         |  | Pompa a spalla<br>KnapSack pump<br>Pulverizador de mochila |
|----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------|---------|---------|---------|---------|---------|-------------------------------------------------------------------------------------|------------------------------------------------------------|
|                      |                                                                                   |                                                                                   |                                                                                   | 6 km/h                                                                                                              | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h                                                                             |                                                            |
| DEF14001             | 1                                                                                 | M                                                                                 | 0.46                                                                              | 46                                                                                                                  | 35     | 28      | 23      | 20      | 17      | 15      | 14                                                                                  | 48                                                         |
|                      | 2                                                                                 | F                                                                                 | 0.65                                                                              | 65                                                                                                                  | 49     | 39      | 33      | 28      | 24      | 22      | 20                                                                                  | 68                                                         |
|                      | 3                                                                                 | F                                                                                 | 0.80                                                                              | 80                                                                                                                  | 60     | 48      | 40      | 34      | 30      | 27      | 24                                                                                  | 83                                                         |
|                      | 4                                                                                 | F                                                                                 | 0.92                                                                              | 92                                                                                                                  | 69     | 55      | 46      | 40      | 35      | 31      | 28                                                                                  | 96                                                         |
|                      | 5                                                                                 | F                                                                                 | 1.03                                                                              | 103                                                                                                                 | 77     | 62      | 52      | 44      | 39      | 34      | 31                                                                                  | 108                                                        |
|                      | 6                                                                                 | F                                                                                 | 1.13                                                                              | 113                                                                                                                 | 85     | 68      | 57      | 48      | 42      | 38      | 34                                                                                  | 118                                                        |
| DEF140015            | 1                                                                                 | M                                                                                 | 0.69                                                                              | 69                                                                                                                  | 52     | 42      | 35      | 30      | 26      | 23      | 21                                                                                  | 72                                                         |
|                      | 2                                                                                 | F                                                                                 | 0.98                                                                              | 98                                                                                                                  | 73     | 59      | 49      | 42      | 37      | 33      | 29                                                                                  | 102                                                        |
|                      | 3                                                                                 | F                                                                                 | 1.20                                                                              | 120                                                                                                                 | 90     | 72      | 60      | 51      | 45      | 40      | 36                                                                                  | 125                                                        |
|                      | 4                                                                                 | F                                                                                 | 1.39                                                                              | 139                                                                                                                 | 104    | 83      | 69      | 59      | 52      | 46      | 42                                                                                  | 144                                                        |
|                      | 5                                                                                 | F                                                                                 | 1.55                                                                              | 155                                                                                                                 | 116    | 93      | 77      | 66      | 58      | 52      | 46                                                                                  | 161                                                        |
|                      | 6                                                                                 | F                                                                                 | 1.70                                                                              | 170                                                                                                                 | 127    | 102     | 85      | 73      | 64      | 57      | 51                                                                                  | 177                                                        |
| DEF14002             | 1                                                                                 | M                                                                                 | 0.92                                                                              | 92                                                                                                                  | 69     | 55      | 46      | 40      | 35      | 31      | 28                                                                                  | 96                                                         |
|                      | 2                                                                                 | F                                                                                 | 1.31                                                                              | 131                                                                                                                 | 98     | 78      | 65      | 56      | 49      | 44      | 39                                                                                  | 136                                                        |
|                      | 3                                                                                 | F                                                                                 | 1.60                                                                              | 160                                                                                                                 | 120    | 96      | 80      | 69      | 60      | 53      | 48                                                                                  | 167                                                        |
|                      | 4                                                                                 | F                                                                                 | 1.85                                                                              | 185                                                                                                                 | 139    | 111     | 92      | 79      | 69      | 62      | 55                                                                                  | 192                                                        |
|                      | 5                                                                                 | F                                                                                 | 2.07                                                                              | 207                                                                                                                 | 155    | 124     | 103     | 89      | 77      | 69      | 62                                                                                  | 215                                                        |
|                      | 6                                                                                 | F                                                                                 | 2.26                                                                              | 226                                                                                                                 | 170    | 136     | 113     | 97      | 85      | 75      | 68                                                                                  | 236                                                        |
| DEF140025            | 1                                                                                 | M                                                                                 | 1.15                                                                              | 115                                                                                                                 | 87     | 69      | 58      | 49      | 43      | 38      | 35                                                                                  | 120                                                        |
|                      | 2                                                                                 | M                                                                                 | 1.63                                                                              | 163                                                                                                                 | 122    | 98      | 82      | 70      | 61      | 54      | 49                                                                                  | 170                                                        |
|                      | 3                                                                                 | F                                                                                 | 2.00                                                                              | 200                                                                                                                 | 150    | 120     | 100     | 86      | 75      | 67      | 60                                                                                  | 208                                                        |
|                      | 4                                                                                 | F                                                                                 | 2.31                                                                              | 231                                                                                                                 | 173    | 139     | 115     | 99      | 87      | 77      | 69                                                                                  | 241                                                        |
|                      | 5                                                                                 | F                                                                                 | 2.58                                                                              | 258                                                                                                                 | 194    | 155     | 129     | 111     | 97      | 86      | 77                                                                                  | 269                                                        |
|                      | 6                                                                                 | F                                                                                 | 2.83                                                                              | 283                                                                                                                 | 212    | 170     | 141     | 121     | 106     | 94      | 85                                                                                  | 295                                                        |
| DEF14003             | 1                                                                                 | M                                                                                 | 1.39                                                                              | 139                                                                                                                 | 104    | 83      | 69      | 59      | 52      | 46      | 42                                                                                  | 144                                                        |
|                      | 2                                                                                 | M                                                                                 | 1.96                                                                              | 196                                                                                                                 | 147    | 118     | 98      | 84      | 73      | 65      | 59                                                                                  | 204                                                        |
|                      | 3                                                                                 | M                                                                                 | 2.40                                                                              | 240                                                                                                                 | 180    | 144     | 120     | 103     | 90      | 80      | 72                                                                                  | 250                                                        |
|                      | 4                                                                                 | M                                                                                 | 2.77                                                                              | 277                                                                                                                 | 208    | 166     | 139     | 119     | 104     | 92      | 83                                                                                  | 289                                                        |
|                      | 5                                                                                 | M                                                                                 | 3.10                                                                              | 310                                                                                                                 | 232    | 186     | 155     | 133     | 116     | 103     | 93                                                                                  | 323                                                        |
|                      | 6                                                                                 | M                                                                                 | 3.39                                                                              | 339                                                                                                                 | 255    | 204     | 170     | 145     | 127     | 113     | 102                                                                                 | 354                                                        |
| DEF14004             | 1                                                                                 | M                                                                                 | 1.85                                                                              | 185                                                                                                                 | 139    | 111     | 92      | 79      | 69      | 62      | 55                                                                                  | 192                                                        |
|                      | 2                                                                                 | M                                                                                 | 2.61                                                                              | 261                                                                                                                 | 196    | 157     | 131     | 112     | 98      | 87      | 78                                                                                  | 272                                                        |
|                      | 3                                                                                 | M                                                                                 | 3.20                                                                              | 320                                                                                                                 | 240    | 192     | 160     | 137     | 120     | 107     | 96                                                                                  | 333                                                        |
|                      | 4                                                                                 | M                                                                                 | 3.70                                                                              | 370                                                                                                                 | 277    | 222     | 185     | 158     | 139     | 123     | 111                                                                                 | 385                                                        |
|                      | 5                                                                                 | M                                                                                 | 4.13                                                                              | 413                                                                                                                 | 310    | 248     | 207     | 177     | 155     | 138     | 124                                                                                 | 430                                                        |
|                      | 6                                                                                 | M                                                                                 | 4.53                                                                              | 453                                                                                                                 | 339    | 272     | 226     | 194     | 170     | 151     | 136                                                                                 | 471                                                        |
| DEF140075            | 1                                                                                 | C                                                                                 | 3.46                                                                              | 346                                                                                                                 | 260    | 208     | 173     | 148     | 130     | 115     | 104                                                                                 | 361                                                        |
|                      | 2                                                                                 | C                                                                                 | 4.90                                                                              | 490                                                                                                                 | 367    | 294     | 245     | 210     | 184     | 163     | 147                                                                                 | 510                                                        |
|                      | 3                                                                                 | C                                                                                 | 6.00                                                                              | 600                                                                                                                 | 450    | 360     | 300     | 257     | 225     | 200     | 180                                                                                 | 625                                                        |
|                      | 4                                                                                 | C                                                                                 | 6.93                                                                              | 693                                                                                                                 | 520    | 416     | 346     | 297     | 260     | 231     | 208                                                                                 | 722                                                        |
|                      | 5                                                                                 | C                                                                                 | 7.75                                                                              | 775                                                                                                                 | 581    | 465     | 387     | 332     | 290     | 258     | 232                                                                                 | 807                                                        |
|                      | 6                                                                                 | C                                                                                 | 8.49                                                                              | 849                                                                                                                 | 636    | 509     | 424     | 364     | 318     | 283     | 255                                                                                 | 884                                                        |
| DEF14010             | 1                                                                                 | VC                                                                                | 4.62                                                                              | 462                                                                                                                 | 346    | 277     | 231     | 198     | 173     | 154     | 139                                                                                 | 481                                                        |
|                      | 2                                                                                 | VC                                                                                | 6.53                                                                              | 653                                                                                                                 | 490    | 392     | 327     | 280     | 245     | 218     | 196                                                                                 | 680                                                        |
|                      | 3                                                                                 | VC                                                                                | 8.00                                                                              | 800                                                                                                                 | 600    | 480     | 400     | 343     | 300     | 267     | 240                                                                                 | 833                                                        |
|                      | 4                                                                                 | VC                                                                                | 9.24                                                                              | 924                                                                                                                 | 693    | 554     | 462     | 396     | 346     | 308     | 277                                                                                 | 962                                                        |
|                      | 5                                                                                 | VC                                                                                | 10.33                                                                             | 1033                                                                                                                | 775    | 620     | 516     | 443     | 387     | 344     | 310                                                                                 | 1076                                                       |
|                      | 6                                                                                 | VC                                                                                | 11.31                                                                             | 1131                                                                                                                | 849    | 679     | 566     | 485     | 424     | 377     | 339                                                                                 | 1179                                                       |

|  | DIMENSIONE DELLE GOCCE<br>DROP SIZE RATING<br>DIMENSIONES DE LAS GOTAS |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| F                                                                                   | Fine-Fine-Fina                                                         |
| M                                                                                   | Media-Medium-Media                                                     |
| C                                                                                   | Grossa-Coarse-Gruesa                                                   |
| VC                                                                                  | Molto grossa-Very coarse-Muy gruesa                                    |

Classificazione in accordo con lo  
standard ASABE S572.3 e la norma  
ISO25358

Classification according to ASABE  
S572.3 and ISO25358

Clasificación según ASABE S572.3 e  
ISO25358





Oltre alla gamma completa degli ugelli per diserbo e irrorazione, ASJ ha messo a punto una serie di ugelli speciali appositamente studiati per tipologie di trattamento particolari.

- **Ugelli BX:** progettati per l'utilizzo su impianti senza barra o come ugello di fine barra per estendere l'ampiezza dell'irrorazione. Consentono di raggiungere zone difficoltose dove, a causa di ostacoli, non si possono usare normali barre da diserbo.
- **Ugelli AOC:** realizzati in Delrin® possono avere due applicazioni diverse:  
A) per effettuare trattamenti sotto chioma.  
B) per delimitare meglio l'area trattata.
- **Ugelli AS:** realizzati in materiale plastico, ideati per aria compressa.
- **Ugelli FF:** realizzati in Delrin®, si utilizzano su impianti industriali per nebulizzazione.
- **Ugelli PSP:** ideati per lo spandimento di concimi liquidi. Grazie al posizionamento e dimensione dei fori permettono una copertura perfetta del terreno, senza sprechi di concime o depositi eccessivi.

Further to the complete range of nozzles for spraying and crop spraying applications, ASJ designed a range of special nozzles dedicated to special spraying jobs.

- **BX Nozzles:** designed for use on spraying systems with no boom, or as boom end nozzle to widen the spraying range. They allow reaching areas where standard crop spraying booms can not be used, maybe because of obstacles.
- **AOC Nozzles:** they are in Delrin® and can be used for two different applications:  
A) for under-tree treatments.  
B) to better define the covered area.
- **AS Nozzles:** of plastic, designed for compressed air.
- **FF Nozzles:** made of Delrin®, used with industrial systems for spraying.
- **PSP Nozzles:** designed for spreading liquid fertilizers. Their positioning and hole size ensure perfect ground coverage and no waste.

Además de la gama completa de las boquillas para pulverización y tratamiento con barras, ASJ ha puesto a punto una serie de boquillas especiales específicamente estudiadas para tipos de tratamientos particulares.

- **Boquillas BX:** diseñadas para el uso en equipos sin barra o como boquilla para el final de barra para extender la amplitud de la pulverización. Permiten alcanzar zonas difíciles donde, debido a obstáculos, no se pueden utilizar barras de pulverización normales.
- **Boquillas AOC:** realizadas en Delrin®, pueden tener dos aplicaciones distintas:  
A) para realizar tratamientos bajo copa.  
B) para delimitar mejor el área tratada.
- **Boquillas AS:** realizadas en material plástico, ideadas para aire comprimido.
- **Boquillas FF:** realizadas en Delrin®, se utilizan en sistemas industriales para nebulización.
- **Boquillas PSP:** ideadas para el rociado de abono líquido. Gracias a su particular posicionamiento y a la dimensión de los agujeros permiten una cobertura perfecta del terreno, sin desperdicios de abono o con depósitos excesivos.

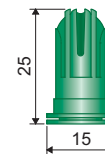




Utilizzo  
Use  
Utilización



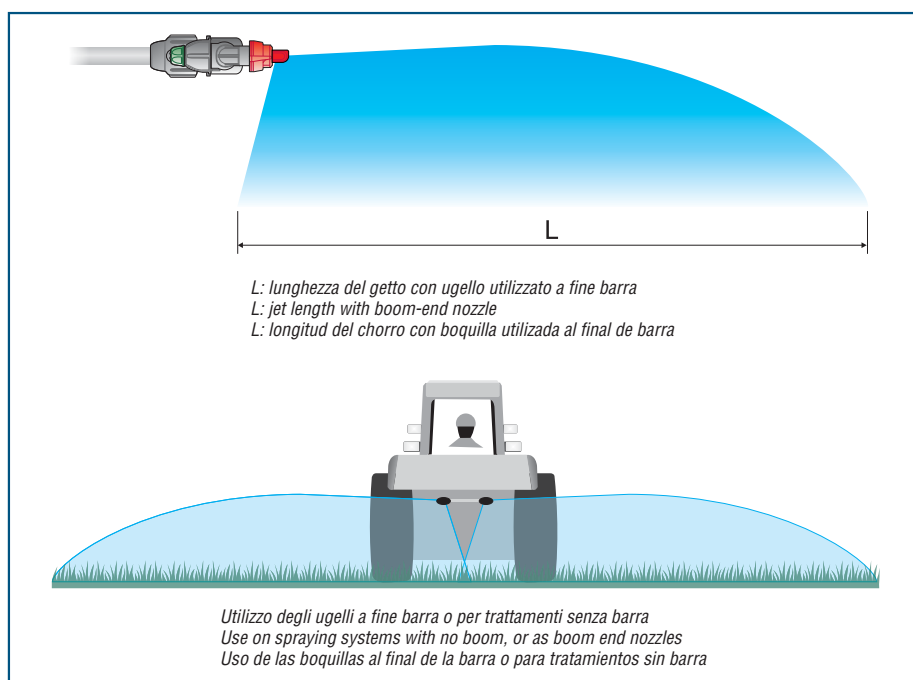
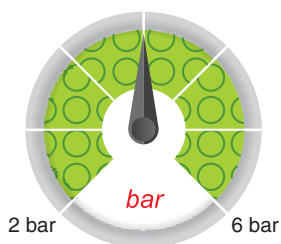
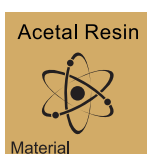
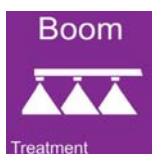
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



- Progettato per impianti senza barra, dove l'utilizzo della barra è sconsigliato a causa di ostacoli.
- Utilizzabile come ugello fine barra per estendere la larghezza dell'irrigazione.
- Le gocce di grandi dimensioni riducono notevolmente l'effetto deriva ed aumentano l'efficacia del trattamento.
- Corpo in Delrin® e inserto in ceramica (solo modelli BX010, 020, 025 e 045) per conferire ottime caratteristiche di durata.
- Eccellente per l'utilizzo su tutte le colture.
- Ideale per i trattamenti nei campi da golf, con l'utilizzo di irroratori senza barra e per impianti su ATV e moto quad.
- Perfetto per i trattamenti di de-icing aeroportuale.

- Designed for boomless systems, where the use of a boom is not recommended due to the presence of obstacles.
- Can be used as a boom-end nozzle to extend spraying range.
- Large droplets have lower drift properties and can increase spraying effectiveness.
- Delrin® body and ceramic insert (BX010, 020, 025 and 045 models only) for maximum durability.
- Excellent for use on all crop types.
- Ideal for golf green treatments using sprayers without boom and for systems on ATVs and quads.
- Perfect for airport de-icing operations.

- Desarrollado para sistemas sin barra, donde el uso de la barra no es recomendado debido a la presencia de obstáculos.
- Se puede utilizar como boquilla de final de barra para extender el ancho de la pulverización.
- Las gotas de grandes dimensiones reducen notablemente el efecto de deriva y aumentan la eficiencia del tratamiento.
- Cuerpo en Delrin® con inserto cerámico (solo modelos BX010, 020, 025 y 045) para otorgar óptimas características de durabilidad.
- Excelente para el uso en todos los cultivos.
- Ideal para los tratamientos en los campos de golf, con el uso de pulverizadoras sin barra y para sistemas en ATV y cuatriciclos.
- Perfecto para el tratamiento de de-icing aeroportuario.



| Inserto ceramico<br>Ceramic insert<br>Inserto cerámico | COD.  | <br>drop | <br>bar | <br>l/min | L<br>m | l/ha   |        |        |         |         |         |         |         |         |
|--------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
|                                                        |       |                                                                                           |                                                                                          |                                                                                            |        | 4 km/h | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h |
| ✓                                                      | BX010 | UC                                                                                        | 2                                                                                        | 3.2                                                                                        | 2.1    | 227    | 152    | 114    | 91      | 76      | 65      | 57      | 51      | 45      |
|                                                        |       | UC                                                                                        | 3                                                                                        | 3.9                                                                                        | 2.6    | 225    | 150    | 113    | 90      | 75      | 64      | 56      | 50      | 45      |
|                                                        |       | UC                                                                                        | 4                                                                                        | 4.5                                                                                        | 3.1    | 218    | 145    | 109    | 87      | 73      | 62      | 54      | 48      | 44      |
|                                                        |       | XC                                                                                        | 5                                                                                        | 5.0                                                                                        | 3.9    | 194    | 129    | 97     | 77      | 65      | 55      | 48      | 43      | 39      |
|                                                        |       | XC                                                                                        | 6                                                                                        | 5.5                                                                                        | 4.4    | 188    | 125    | 94     | 75      | 63      | 54      | 47      | 42      | 38      |
| ✓                                                      | BX020 | UC                                                                                        | 2                                                                                        | 6.5                                                                                        | 2.8    | 346    | 230    | 173    | 138     | 115     | 99      | 86      | 77      | 69      |
|                                                        |       | UC                                                                                        | 3                                                                                        | 7.9                                                                                        | 3.2    | 370    | 247    | 185    | 148     | 123     | 106     | 93      | 82      | 74      |
|                                                        |       | UC                                                                                        | 4                                                                                        | 9.1                                                                                        | 3.5    | 391    | 261    | 195    | 156     | 130     | 112     | 98      | 87      | 78      |
|                                                        |       | UC                                                                                        | 5                                                                                        | 10.2                                                                                       | 3.7    | 413    | 276    | 207    | 165     | 138     | 118     | 103     | 92      | 83      |
|                                                        |       | XC                                                                                        | 6                                                                                        | 11.2                                                                                       | 4.0    | 419    | 279    | 209    | 168     | 140     | 120     | 105     | 93      | 84      |
| ✓                                                      | BX025 | UC                                                                                        | 2                                                                                        | 7.7                                                                                        | 2.5    | 461    | 307    | 230    | 184     | 154     | 132     | 115     | 102     | 92      |
|                                                        |       | UC                                                                                        | 3                                                                                        | 9.4                                                                                        | 3.0    | 470    | 313    | 235    | 188     | 157     | 134     | 118     | 104     | 94      |
|                                                        |       | UC                                                                                        | 4                                                                                        | 10.9                                                                                       | 3.3    | 493    | 329    | 247    | 197     | 164     | 141     | 123     | 110     | 99      |
|                                                        |       | UC                                                                                        | 5                                                                                        | 12.1                                                                                       | 3.5    | 520    | 347    | 260    | 208     | 173     | 149     | 130     | 116     | 104     |
|                                                        |       | XC                                                                                        | 6                                                                                        | 13.3                                                                                       | 3.6    | 554    | 369    | 277    | 222     | 185     | 158     | 138     | 123     | 111     |
| ✓                                                      | BX045 | UC                                                                                        | 2                                                                                        | 14.1                                                                                       | 2.9    | 731    | 487    | 365    | 292     | 244     | 209     | 183     | 162     | 146     |
|                                                        |       | UC                                                                                        | 3                                                                                        | 17.3                                                                                       | 3.0    | 865    | 577    | 433    | 346     | 288     | 247     | 216     | 192     | 173     |
|                                                        |       | UC                                                                                        | 4                                                                                        | 20.0                                                                                       | 3.3    | 908    | 605    | 454    | 363     | 303     | 259     | 227     | 202     | 182     |
|                                                        |       | UC                                                                                        | 5                                                                                        | 22.3                                                                                       | 3.5    | 957    | 638    | 479    | 383     | 319     | 273     | 239     | 213     | 191     |
|                                                        |       | UC                                                                                        | 6                                                                                        | 24.5                                                                                       | 3.6    | 1019   | 680    | 510    | 408     | 340     | 291     | 255     | 227     | 204     |
| ✗                                                      | BX060 | UC                                                                                        | 2                                                                                        | 18.1                                                                                       | 3.0    | 906    | 604    | 453    | 363     | 302     | 259     | 227     | 201     | 181     |
|                                                        |       | UC                                                                                        | 3                                                                                        | 22.2                                                                                       | 3.4    | 979    | 653    | 490    | 392     | 326     | 280     | 245     | 218     | 196     |
|                                                        |       | UC                                                                                        | 4                                                                                        | 25.6                                                                                       | 4.0    | 961    | 641    | 481    | 385     | 320     | 275     | 240     | 214     | 192     |
|                                                        |       | UC                                                                                        | 5                                                                                        | 28.7                                                                                       | 4.4    | 977    | 651    | 489    | 391     | 326     | 279     | 244     | 217     | 195     |
|                                                        |       | UC                                                                                        | 6                                                                                        | 31.4                                                                                       | 4.7    | 1002   | 668    | 501    | 401     | 334     | 286     | 250     | 223     | 200     |
| ✗                                                      | BX080 | UC                                                                                        | 2                                                                                        | 25.3                                                                                       | 3.5    | 1085   | 723    | 542    | 434     | 362     | 310     | 271     | 241     | 217     |
|                                                        |       | UC                                                                                        | 3                                                                                        | 31.0                                                                                       | 4.0    | 1163   | 775    | 581    | 465     | 388     | 332     | 291     | 258     | 233     |
|                                                        |       | UC                                                                                        | 4                                                                                        | 35.8                                                                                       | 4.0    | 1342   | 895    | 671    | 537     | 447     | 384     | 336     | 298     | 268     |
|                                                        |       | UC                                                                                        | 5                                                                                        | 40.0                                                                                       | 4.1    | 1464   | 976    | 732    | 586     | 488     | 418     | 366     | 325     | 293     |
|                                                        |       | UC                                                                                        | 6                                                                                        | 43.8                                                                                       | 4.1    | 1604   | 1069   | 802    | 642     | 535     | 458     | 401     | 356     | 321     |

|                                                                                     |                                                                                             |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|  | <b>DIMENSIONE DELLE GOCCE</b><br><b>DROP SIZE RATING</b><br><b>DIMENSIONES DE LAS GOTAS</b> |
| XC                                                                                  | Estremamente grossa-Extremely coarse-Extremadamente gruesa                                  |
| UC                                                                                  | Ultra grossa- Ultra coarse-Ultra gruesa                                                     |

Classificazione in accordo con lo standard ASABE S572.3 e la norma ISO25358

Classification according to ASABE S572.3 and ISO25358

Clasificación según ASABE S572.3 e ISO25358

Manicotto filettato attacco rapido per barra  
Boom quick-fitting threaded adapter  
Terminal roscado para barra



| COD.    | F          | PACK |
|---------|------------|------|
| 400 277 | G1/2 (BSP) | 25   |
| 400 278 | G3/4 (BSP) | 25   |

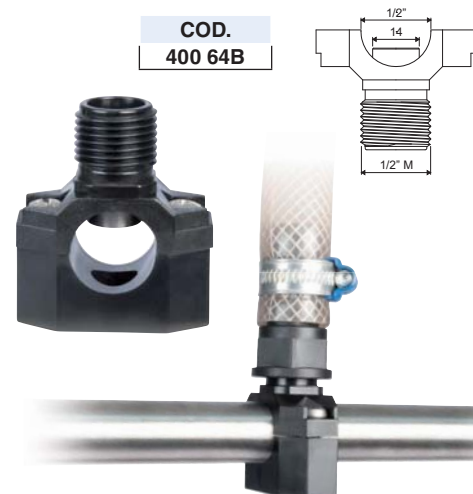
| COD.       | PACK |
|------------|------|
| 402 901 xx | 25   |

Portagetto di fine barra per ugelli BX  
Boom-end nozzle holder for BX nozzles  
Porta-boquilla de final de barra para boquillas BX

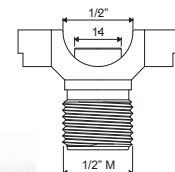


Vedere pag. 90  
See page. 90  
Véase pág. 90

Raccordo per alimentazione barra  
Boom inlet feeding  
Conexión para alimentación barra



COD.  
400 64B



I raccordi con attacco femmina 1/2"  
cod. 100215 e 100219 sono da ordinare separatamente  
Fittings with 1/2" female connector  
code 100215 and 100219 must be ordered separately  
Los empalmes con acople hembra 1/2"  
cód. 100215 y 100219 se deben ordenar por separado

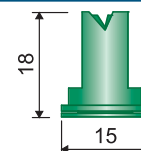
# AOC AIR OFF CENTER



Utilizzo  
Use  
Utilización



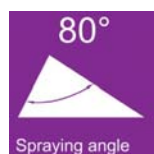
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



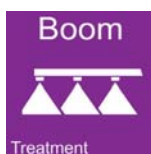
- Riduzione della deriva in presenza di vento fino al 90%.
- Design compatto: permette la sostituzione diretta degli ugelli di tipo Flat Fan.
- Completamente smontabile per una facile manutenzione.
- Stampato in Delrin®, ad alta stabilità chimica, che conferisce ottime caratteristiche di durata.
- Adatto per trattamenti con erbicidi, fungicidi ed insetticidi.

- Drift reduction in case of windy weather conditions up to 90%.
- Compact design: allows Flat Fan nozzle easy replacement.
- They can be fully removed for easier service.
- Made of molded Delrin®, a polymer ensuring high chemical stability and an exceptionally long useful life.
- Suitable for herbicides, fungicides and pesticides.

- Reducción de la deriva en presencia de viento hasta el 90%.
- Diseño compacto: permite la sustitución directa de las boquillas de tipo Flat Fan.
- Completamente desmontable para un fácil mantenimiento.
- Moldeado en Delrin®, material con alta estabilidad química, que otorga excepcionales características de duración.
- Adecuado para tratamientos con herbicidas, fungicidas e insecticidas.



Spraying angle

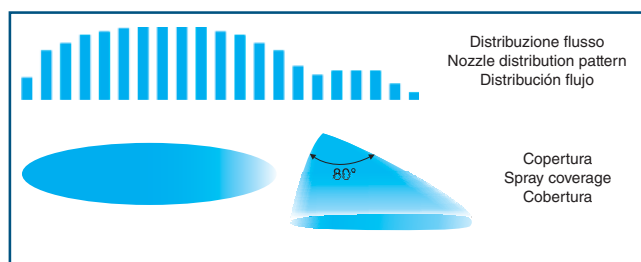
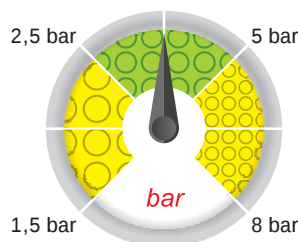


Treatment



Acetal Resin

Material



Colour coding



402900xx

Cap



2 pcs.

cod. B6  
Blister pack

Per un volume di distribuzione corretto ed una copertura ottimale, è necessario che l'ugello AOC sia della misura inferiore a quella degli altri ugelli impiegati sulla barra. Es.: se si utilizzano CFA11004 sulla barra, l'ugello terminale corretto è AOC03.

For a correct spraying volume and an excellent coverage, the AOC nozzle must be smaller than the other nozzles used on the boom. E.g.: if CFA11004 nozzles are used on the boom, the correct end nozzle is AOC03.

Para un volumen de distribución correcto y una óptima cobertura es necesario que la boquilla AOC sea de la medida inferior a la de las otras boquillas empleadas en la barra. Ej.: si se utilizan CFA11004 en la barra, la boquilla terminal correcta es AOC03.

Air Off Center può essere utilizzato per due applicazioni differenti:

- Posto a fine barra con il getto rivolto verso l'esterno, (A) consente il trattamento di aree in cui gli ugelli tradizionali non arrivano a causa dell'ingombro della barra.
- Posto a fine barra ma con il getto rivolto verso l'interno, (B) evita la contaminazione di aree da non trattare.

Air Off Center can be used for two different applications:

- At boom end, with jet pointing out, (A) to spray areas that traditional nozzles do not reach due to boom dimensions.
- At boom end, with jet pointing in, (B) to avoid off-target spray contamination.

Air Off Center puede ser utilizado para dos aplicaciones diferentes:

- Colocado al final de la barra con el chorro dirigido hacia el exterior, (A) permite el tratamiento de áreas donde las boquillas tradicionales no llegan debido a la barra.
- Colocado al final de la barra pero con el chorro dirigido hacia el interior, (B) evita la contaminación de áreas que no se deben tratar.



| COD.<br>CODE<br>CÓD. |  |  |  | l/ha (spazio tra gli ugelli: 50 cm)<br>l/ha (nozzle spacing: 50 cm)<br>l/ha (espacio entre las boquillas: 50 cm) |        |        |         |         |         |         |         |         |         |
|----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
|                      | bar                                                                               | drop                                                                              | l/min                                                                             | 4 km/h                                                                                                           | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h | 25 km/h |
|                      |                                                                                   |                                                                                   |                                                                                   |                                                                                                                  |        |        |         |         |         |         |         |         |         |
| AOC015               | 1.5                                                                               | XC                                                                                | 0.42                                                                              | 127                                                                                                              | 85     | 64     | 51      | 42      | 36      | 32      | 28      | 25      | 20      |
|                      | 2                                                                                 | VC                                                                                | 0.49                                                                              | 147                                                                                                              | 98     | 73     | 59      | 49      | 42      | 37      | 33      | 29      | 24      |
|                      | 3                                                                                 | C                                                                                 | 0.60                                                                              | 180                                                                                                              | 120    | 90     | 72      | 60      | 51      | 45      | 40      | 36      | 29      |
|                      | 4                                                                                 | C                                                                                 | 0.69                                                                              | 208                                                                                                              | 139    | 104    | 83      | 69      | 59      | 52      | 46      | 42      | 33      |
|                      | 6                                                                                 | C                                                                                 | 0.85                                                                              | 255                                                                                                              | 170    | 127    | 102     | 85      | 73      | 64      | 57      | 51      | 41      |
|                      | 8                                                                                 | C                                                                                 | 0.98                                                                              | 294                                                                                                              | 196    | 147    | 118     | 98      | 84      | 73      | 65      | 59      | 47      |
| AOC02                | 1.5                                                                               | UC                                                                                | 0.57                                                                              | 170                                                                                                              | 113    | 85     | 68      | 57      | 48      | 42      | 38      | 34      | 27      |
|                      | 2                                                                                 | UC                                                                                | 0.65                                                                              | 196                                                                                                              | 131    | 98     | 78      | 65      | 56      | 49      | 44      | 39      | 31      |
|                      | 3                                                                                 | XC                                                                                | 0.80                                                                              | 240                                                                                                              | 160    | 120    | 96      | 80      | 69      | 60      | 53      | 48      | 38      |
|                      | 4                                                                                 | XC                                                                                | 0.92                                                                              | 277                                                                                                              | 185    | 139    | 111     | 92      | 79      | 69      | 62      | 55      | 44      |
|                      | 6                                                                                 | VC                                                                                | 1.13                                                                              | 339                                                                                                              | 226    | 170    | 136     | 113     | 97      | 85      | 75      | 68      | 54      |
|                      | 8                                                                                 | VC                                                                                | 1.31                                                                              | 392                                                                                                              | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 63      |
| AOC025               | 1.5                                                                               | XC                                                                                | 0.71                                                                              | 212                                                                                                              | 141    | 106    | 85      | 71      | 61      | 53      | 47      | 42      | 34      |
|                      | 2                                                                                 | VC                                                                                | 0.82                                                                              | 245                                                                                                              | 163    | 122    | 98      | 82      | 70      | 61      | 54      | 49      | 39      |
|                      | 3                                                                                 | C                                                                                 | 1.00                                                                              | 300                                                                                                              | 200    | 150    | 120     | 100     | 86      | 75      | 67      | 60      | 48      |
|                      | 4                                                                                 | C                                                                                 | 1.15                                                                              | 346                                                                                                              | 231    | 173    | 139     | 115     | 99      | 87      | 77      | 69      | 55      |
|                      | 6                                                                                 | C                                                                                 | 1.41                                                                              | 424                                                                                                              | 283    | 212    | 170     | 141     | 121     | 106     | 94      | 85      | 68      |
|                      | 8                                                                                 | C                                                                                 | 1.63                                                                              | 490                                                                                                              | 327    | 245    | 196     | 163     | 140     | 122     | 109     | 98      | 78      |
| AOC03                | 1.5                                                                               | UC                                                                                | 0.85                                                                              | 255                                                                                                              | 170    | 127    | 102     | 85      | 73      | 64      | 57      | 51      | 41      |
|                      | 2                                                                                 | XC                                                                                | 0.98                                                                              | 294                                                                                                              | 196    | 147    | 118     | 98      | 84      | 73      | 65      | 59      | 47      |
|                      | 3                                                                                 | XC                                                                                | 1.20                                                                              | 360                                                                                                              | 240    | 180    | 144     | 120     | 103     | 90      | 80      | 72      | 58      |
|                      | 4                                                                                 | VC                                                                                | 1.39                                                                              | 416                                                                                                              | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 67      |
|                      | 6                                                                                 | VC                                                                                | 1.70                                                                              | 509                                                                                                              | 339    | 255    | 204     | 170     | 145     | 127     | 113     | 102     | 81      |
|                      | 8                                                                                 | C                                                                                 | 1.96                                                                              | 588                                                                                                              | 392    | 294    | 235     | 196     | 168     | 147     | 131     | 118     | 94      |
| AOC04                | 1.5                                                                               | UC                                                                                | 1.13                                                                              | 339                                                                                                              | 226    | 170    | 136     | 113     | 97      | 85      | 75      | 68      | 54      |
|                      | 2                                                                                 | XC                                                                                | 1.31                                                                              | 392                                                                                                              | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 63      |
|                      | 3                                                                                 | XC                                                                                | 1.60                                                                              | 480                                                                                                              | 320    | 240    | 192     | 160     | 137     | 120     | 107     | 96      | 77      |
|                      | 4                                                                                 | XC                                                                                | 1.85                                                                              | 554                                                                                                              | 370    | 277    | 222     | 185     | 158     | 139     | 123     | 111     | 89      |
|                      | 6                                                                                 | VC                                                                                | 2.26                                                                              | 679                                                                                                              | 453    | 339    | 272     | 226     | 194     | 170     | 151     | 136     | 109     |
|                      | 8                                                                                 | VC                                                                                | 2.61                                                                              | 784                                                                                                              | 523    | 392    | 314     | 261     | 224     | 196     | 174     | 157     | 125     |
| AOC05                | 1.5                                                                               | UC                                                                                | 1.41                                                                              | 424                                                                                                              | 283    | 212    | 170     | 141     | 121     | 106     | 94      | 85      | 68      |
|                      | 2                                                                                 | XC                                                                                | 1.63                                                                              | 490                                                                                                              | 327    | 245    | 196     | 163     | 140     | 122     | 109     | 98      | 78      |
|                      | 3                                                                                 | XC                                                                                | 2.00                                                                              | 600                                                                                                              | 400    | 300    | 240     | 200     | 171     | 150     | 133     | 120     | 96      |
|                      | 4                                                                                 | XC                                                                                | 2.31                                                                              | 693                                                                                                              | 462    | 344    | 277     | 231     | 198     | 173     | 154     | 139     | 111     |
|                      | 6                                                                                 | VC                                                                                | 2.83                                                                              | 849                                                                                                              | 566    | 424    | 339     | 283     | 242     | 212     | 189     | 170     | 136     |
|                      | 8                                                                                 | VC                                                                                | 3.27                                                                              | 980                                                                                                              | 653    | 490    | 392     | 327     | 280     | 245     | 218     | 196     | 157     |

|  | DIMENSIONE DELLE GOCCE<br>DROP SIZE RATING<br>DIMENSIONES DE LAS GOTAS |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| C                                                                                   | Grossa-Coarse-Gruesa                                                   |
| VC                                                                                  | Molto grossa-Very coarse-Muy gruesa                                    |
| XC                                                                                  | Estremamente grossa-Extremely coarse-Extremadamente gruesa             |
| UC                                                                                  | Ultra grossa- Ultra coarse-Ultra gruesa                                |

Classificazione in accordo con lo  
standard ASABE S572.3 e la norma  
ISO25358

Classification according to ASABE  
S572.3 and ISO25358

Clasificación según ASABE S572.3 e  
ISO25358

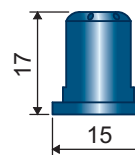




Utilizzo  
Use  
Utilización



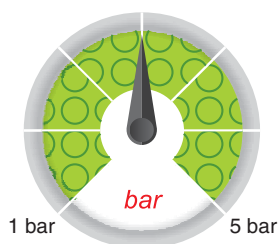
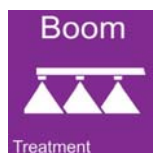
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



- L'angolo del getto assicura un perfetto spandimento del fertilizzante.
- Getto sempre costante in tutta la gamma pressione.
- Specifico per concimi liquidi.
- Impatto perfetto col terreno che evita danni alla coltura, quando utilizzato alle pressioni raccomandate.

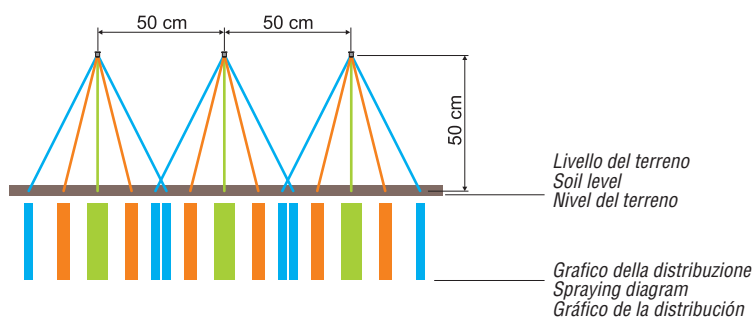
- Their jet angle ensures perfect fertilizer spreading.
- Constant spray throughout the pressure range.
- Specific for liquid fertilizers.
- Perfect impact onto the soil so as not to damage crops if used at recommended pressure values.

- El ángulo del chorro asegura una perfecta expansión del fertilizante.
- Chorro siempre constante en toda la gama de presión.
- Específico para abonos líquidos.
- Impacto perfecto con el terreno que evita daños a los cultivos cuando es usado con las presiones recomendadas.



## COPERTURA

La particolare disposizione dei fori ed il loro diametro permettono una copertura omogenea sul terreno anche al variare dell'altezza della barra. Utilizzando Pentastream alle pressioni consigliate e variando l'altezza della barra fra 35 e 100 cm, si ottiene una distribuzione lineare e senza accumuli o vuoti ed il prodotto non finisce sulle colture evitando così le bruciature chimiche.

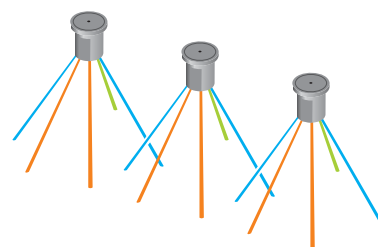


## COVERAGE

Their special hole layout and diameter ensure very smooth spraying even if boom height changes. If used at recommended pressure values and at variable boom height between 35 and 100 cm, Pentastream nozzles ensure linear spraying with no overlapped or non-sprayed areas and no damage to the crop caused by chemical scorching due to direct contact with the product.

## COBERTURA

La particolare disposición de los orificios y su diámetro permiten una cobertura homogénea sobre el terreno incluso al variar la altura de la barra. Usando Pentastream con las presiones recomendadas y variando la altura de la barra entre 35 y 100 cm se obtiene una distribución lineal y sin acumulaciones o vacíos y el producto no termina sobre los cultivos, evitando quemaduras químicas.

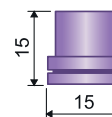


| COD.<br>CODE<br>CÓD. | <br>bar | <br>l/min | l/ha (spazio tra gli ugelli: 50 cm)<br>l/ha (nozzle spacing: 50 cm)<br>l/ha (espacio entre las boquillas: 50 cm) |        |        |         |         |         |         |         |         |         |
|----------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
|                      |                                                                                          |                                                                                            | 4 km/h                                                                                                           | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h | 25 km/h |
|                      |                                                                                          |                                                                                            |                                                                                                                  |        |        |         |         |         |         |         |         |         |
| PSP015               | 1                                                                                        | 0.35                                                                                       | 104                                                                                                              | 69     | 52     | 42      | 35      | 30      | 26      | 23      | 21      | 17      |
|                      | 2                                                                                        | 0.49                                                                                       | 147                                                                                                              | 98     | 73     | 59      | 49      | 42      | 37      | 33      | 29      | 24      |
|                      | 3                                                                                        | 0.60                                                                                       | 180                                                                                                              | 120    | 90     | 72      | 60      | 51      | 45      | 40      | 36      | 29      |
|                      | 4                                                                                        | 0.69                                                                                       | 208                                                                                                              | 139    | 104    | 83      | 69      | 59      | 52      | 46      | 42      | 33      |
|                      | 5                                                                                        | 0.77                                                                                       | 232                                                                                                              | 155    | 116    | 93      | 77      | 66      | 58      | 52      | 46      | 37      |
| PSP02                | 1                                                                                        | 0.46                                                                                       | 139                                                                                                              | 92     | 69     | 55      | 46      | 40      | 35      | 31      | 28      | 22      |
|                      | 2                                                                                        | 0.65                                                                                       | 196                                                                                                              | 131    | 98     | 78      | 65      | 56      | 49      | 44      | 39      | 31      |
|                      | 3                                                                                        | 0.80                                                                                       | 240                                                                                                              | 160    | 120    | 96      | 80      | 69      | 60      | 53      | 48      | 38      |
|                      | 4                                                                                        | 0.92                                                                                       | 277                                                                                                              | 185    | 139    | 111     | 92      | 79      | 69      | 62      | 55      | 44      |
|                      | 5                                                                                        | 1.03                                                                                       | 310                                                                                                              | 207    | 155    | 124     | 103     | 89      | 77      | 69      | 62      | 50      |
| PSP03                | 1                                                                                        | 0.69                                                                                       | 208                                                                                                              | 139    | 104    | 83      | 69      | 59      | 52      | 46      | 42      | 33      |
|                      | 2                                                                                        | 0.98                                                                                       | 294                                                                                                              | 196    | 147    | 118     | 98      | 84      | 73      | 65      | 59      | 47      |
|                      | 3                                                                                        | 1.20                                                                                       | 360                                                                                                              | 240    | 180    | 144     | 120     | 103     | 90      | 80      | 72      | 58      |
|                      | 4                                                                                        | 1.39                                                                                       | 416                                                                                                              | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 67      |
|                      | 5                                                                                        | 1.55                                                                                       | 465                                                                                                              | 310    | 232    | 186     | 155     | 133     | 116     | 103     | 93      | 74      |
| PSP04                | 1                                                                                        | 0.92                                                                                       | 277                                                                                                              | 185    | 139    | 111     | 92      | 79      | 69      | 62      | 55      | 44      |
|                      | 2                                                                                        | 1.31                                                                                       | 392                                                                                                              | 261    | 196    | 157     | 131     | 112     | 98      | 87      | 78      | 63      |
|                      | 3                                                                                        | 1.60                                                                                       | 480                                                                                                              | 320    | 240    | 192     | 160     | 137     | 120     | 107     | 96      | 77      |
|                      | 4                                                                                        | 1.85                                                                                       | 554                                                                                                              | 370    | 277    | 222     | 185     | 158     | 139     | 123     | 111     | 89      |
|                      | 5                                                                                        | 2.07                                                                                       | 620                                                                                                              | 413    | 310    | 248     | 207     | 177     | 155     | 138     | 124     | 99      |
| PSP05                | 1                                                                                        | 1.15                                                                                       | 346                                                                                                              | 231    | 173    | 139     | 115     | 99      | 87      | 77      | 69      | 55      |
|                      | 2                                                                                        | 1.63                                                                                       | 490                                                                                                              | 327    | 245    | 196     | 163     | 140     | 122     | 109     | 98      | 78      |
|                      | 3                                                                                        | 2.00                                                                                       | 600                                                                                                              | 400    | 300    | 240     | 200     | 171     | 150     | 133     | 120     | 96      |
|                      | 4                                                                                        | 2.31                                                                                       | 693                                                                                                              | 462    | 346    | 277     | 231     | 198     | 173     | 154     | 139     | 111     |
|                      | 5                                                                                        | 2.58                                                                                       | 775                                                                                                              | 516    | 387    | 310     | 258     | 221     | 194     | 172     | 155     | 124     |
| PSP06                | 1                                                                                        | 1.39                                                                                       | 416                                                                                                              | 277    | 208    | 166     | 139     | 119     | 104     | 92      | 83      | 67      |
|                      | 2                                                                                        | 1.96                                                                                       | 588                                                                                                              | 392    | 294    | 235     | 196     | 168     | 147     | 131     | 118     | 94      |
|                      | 3                                                                                        | 2.40                                                                                       | 720                                                                                                              | 480    | 360    | 288     | 240     | 206     | 180     | 160     | 144     | 115     |
|                      | 4                                                                                        | 2.77                                                                                       | 831                                                                                                              | 554    | 416    | 333     | 277     | 238     | 208     | 185     | 166     | 133     |
|                      | 5                                                                                        | 3.10                                                                                       | 930                                                                                                              | 620    | 465    | 372     | 310     | 266     | 232     | 207     | 186     | 149     |
| PSP05                | 1                                                                                        | 1.85                                                                                       | 554                                                                                                              | 370    | 277    | 222     | 185     | 158     | 139     | 123     | 111     | 89      |
|                      | 2                                                                                        | 2.61                                                                                       | 784                                                                                                              | 523    | 392    | 314     | 261     | 224     | 196     | 174     | 157     | 125     |
|                      | 3                                                                                        | 3.20                                                                                       | 960                                                                                                              | 640    | 480    | 384     | 320     | 274     | 240     | 213     | 192     | 154     |
|                      | 4                                                                                        | 3.70                                                                                       | 1109                                                                                                             | 739    | 554    | 443     | 370     | 317     | 277     | 246     | 222     | 177     |
|                      | 5                                                                                        | 4.13                                                                                       | 1239                                                                                                             | 826    | 620    | 496     | 413     | 354     | 310     | 275     | 248     | 198     |

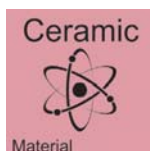
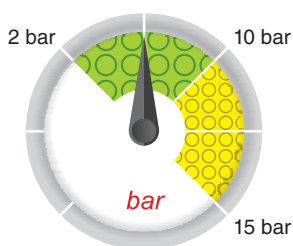




Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



- Ugello a cono per nebulizzazione.
- Specifico per la sanificazione degli ambienti.
- Corpo in polimero plastico e inserto in ceramica.



| COD.   | Angle | l/min |       |       |       |       |
|--------|-------|-------|-------|-------|-------|-------|
|        |       | 2 bar | 3 bar | 4 bar | 5 bar | 6 bar |
| SHC008 | 55°   | 0.065 | 0.080 | 0.092 | 0.103 | 0.113 |
| SHC012 | 60°   | 0.098 | 0.120 | 0.139 | 0.155 | 0.170 |

## HCT - FFT

## INDUSTRIAL NOZZLE

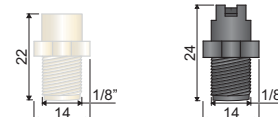


**HCT**  
HOLLOWCONE  
THREADED



**FFT**  
FLAT FAN  
THREADED

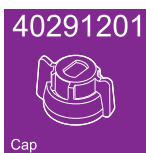
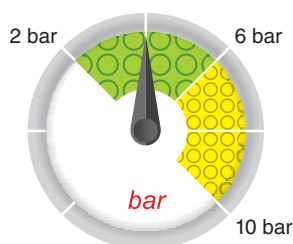
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



- Ugelli a ventaglio o a cono per nebulizzazione.
- Adatti per applicazioni industriali.
- Stampato in Delrin®, ad alta stabilità chimica, che conferisce ottime caratteristiche di durata.
- Filetto 1/8"
- Modello HCT con antigoccia inclusa.

- Spraying fan or cone misting nozzles.
- Suitable for industrial applications.
- Made of molded Delrin®, a polymer ensuring high chemical stability and an exceptionally long useful life.
- 1/8" thread.
- HCT model complete with anti-drip.

- Boquillas en abanico o de cono para la nebulización.
- Aptas para aplicaciones industriales.
- Moldeado en Delrin®, material con alta estabilidad química, que otorga excepcionales características de duración.
- Rosca 1/8".
- Modelo HCT con anti-goteo incluido.



| COD.     | Angle | l/min |       |       |       |       |
|----------|-------|-------|-------|-------|-------|-------|
|          |       | 2 bar | 3 bar | 4 bar | 5 bar | 6 bar |
| HCT08505 | 85°   | 0.039 | 0.045 | 0.052 | 0.058 | 0.064 |
| HCT11010 | 110°  | 0.065 | 0.075 | 0.087 | 0.097 | 0.106 |
| FFT11002 | 110°  | 0.159 | 0.195 | 0.225 | 0.252 | 0.276 |
| FFT10012 | 100°  | 0.980 | 1.200 | 1.386 | 1.550 | 1.700 |

# FLAT FAN

FF

Ugelli speciali  
Special nozzles  
Boquillas especiales

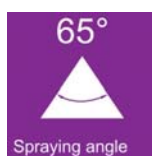
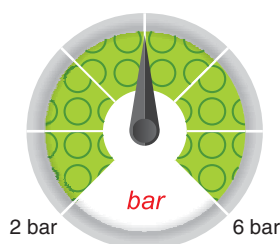
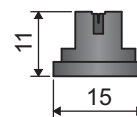


**FF**  
FLAT FAN

- Ugello a ventaglio per nebulizzazione.
- Adatto per applicazioni industriali.
- Stampato in Delrin®, ad alta stabilità chimica, che conferisce ottime caratteristiche di durata.
- Adatto per testina ad attacco rapido.

- Spraying fan misting nozzles.
- Suitable for industrial applications.
- Made of molded Delrin®, a polymer ensuring high chemical stability and an exceptionally long useful life.
- Suitable for quick fitting cap.

Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)

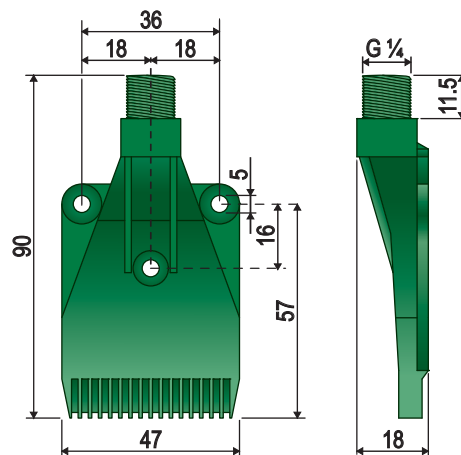


- Boquillas en abanico para la nebulización.
- Apto para aplicaciones industriales.
- Moldeado en Delrin®, material con alta estabilidad química, que otorga excepcionales características de duración.
- Apto para cabezal de acople rápido.

# AS A-STREAM



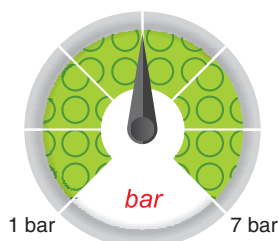
Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



- Ugello a pettine per aria compressa.
- Adatto a impianti di raffreddamento con aria, essiccamento o spostamento di materiale trasportato.
- Getto uniforme ad alta portata di aria ed elevato impatto.
- Fori interni al pettine per evitarne l'intasamento da contatto.
- Fori di fissaggio a piastra solidali al corpo dell'ugello.
- Attacco filettato maschio G 1/4".

- Comb style compressed air nozzle.
- Suitable for air cooling systems, drying or blowing off conveyed material.
- Even jet, high air flow rate and high impact.
- Holes are inside the comb to avoid clogging due to surface contact.
- Plate mounting holes on nozzle body.
- Male G 1/4" thread.

- Boquilla en peine para aire comprimido.
- Adecuado para equipos de refrigeración con aire, secado o desplazamiento de material transportado.
- Chorro uniforme de alto caudal de aire y elevado impacto.
- Agujeros internos en el peine para evitar el atascamiento de contacto.
- Agujeros de fijación de placa solidarias al cuerpo de la boquilla.
- Toma roscada macho G 1/4".



| COD.   | 3 bar/h          |
|--------|------------------|
| AS1280 | 28m <sup>3</sup> |

**TESTINE****CAPS****CABEZAS****Testine con attacco a baionetta standard****Standard bayonet caps****Cabezales con fijación de bayoneta estándar**

| Tipo<br>Type<br>Tipo                                                             | Testina con guarnizione<br>Cap with gasket<br>Cabeza con junta                           |      | Guarnizione di ricambio<br>Spare gasket<br>Junta de repuesto |      | Da utilizzare con i seguenti ugelli<br>To be used with the following nozzles<br>Para utilizar con las siguientes boquillas                                                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------|--------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                  | COD.                                                                                     | PACK | COD.                                                         | PACK |                                                                                                                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|  | 402 900 xx                                                                               | 25   | 402 200.040                                                  | 25   |                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 402 901 xx                                                                               | 25   | 402 200.040                                                  | 25   |                                                                                                    |  |  |  |  |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|  | 402 904 xx                                                                               | 25   | 402 200.040                                                  | 25   |                                                                                                    |  |  |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|  | 402 905 xx                                                                               | 25   | 402 200.040<br>+<br>402 105.030                              | 25   |                                                                                                    |  |  |  |  |  |  |  |  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|  | 402 908 xx                                                                               | 25   | 402 200.040                                                  | 25   |                                                                                                    |  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|  | 402 90901                                                                                | 25   | 402 200.040                                                  | 25   | Permette di chiudere alcuni ugelli per variare l'interfila<br>Used to close some nozzles to change spacing<br>Permite cerrar algunas boquillas para variar la distancia entre filas |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|  | 402 91703<br><i>Solo colore rosso</i><br><i>Only red color</i><br><i>Solo color rojo</i> | 25   | 402 200.040<br>+<br>402 105.030                              | 25   |                                                                                                    |  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

**Testine "Hardi®"****"Hardi®" Caps****Cabezales "Hardi®"**

|                                                                                    |          |    |               |    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|------------------------------------------------------------------------------------|----------|----|---------------|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  | CPH FF01 | 25 | 402 200.040 * | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | CPH TF01 | 25 | 402 200.040 * | 25 |  |  |  |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|  | CPH HC01 | 25 | 402 200.040 * | 25 |  |  |  |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |

\* Se si utilizzano i filtri cod. 424xxxxx, è richiesta la guarnizione cod. 402200.042

\* If using filters code 424xxxxx, it is necessary to use seal cod. 402200.042

\* Si se utilizan los filtros cód. 424xxxxx, necesaria la junta cód. 402200.042

**Testina porta getti universale UNI-CAP****"UNI-CAP" universal nozzle-cap****Cabezal portaboquillas universal UNI-CAP**

|  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  | 402 990 xx |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

**COME ORDINARE  
HOW TO ORDER  
CÓMO PEDIR**

Per ordinare una testina cod. 402 900 di colore verde indicare 402 900 05.

To order a green cap with code 402 900 please order 402 900 05.

Para pedir una cabeza cód 402 900 de color verde indicar 402 900 05.

Colori standard  
Standard colours  
Colores estándares

| Colore / Colour / Color    | COD. (xx) |
|----------------------------|-----------|
| Rosso / Red / Rojo         | 03        |
| Blu / Blue / Azul          | 04        |
| Verde / Green / Verde      | 05        |
| Giallo / Yellow / Amarillo | 06        |
| Marrone / Brown / Marrón   | 07        |

Colori a richiesta  
Optional colours  
Colores bajo pedido

| Colore / Colour / Color                  | COD. (xx) |
|------------------------------------------|-----------|
| Nero / Black / Negro                     | 01        |
| Bianco / White / Blanco                  | 02        |
| Arancione / Orange / Naranja             | 08        |
| Verde chiaro / Light green / Verde claro | 09        |
| Grigio / Grey / Gris                     | 10        |
| Azzurro / Light blue / Azul claro        | 11        |
| Blu scuro / Dark blue / Azul oscuro      | 12        |
| Lilla / Lilac / Lila                     | 13        |

**Testine in plastica personalizzabili****Customizable plastic nozzle caps****Cabezales de plástico personalizables**

Possibilità di personalizzare la testina con stampa del logo fornito dal cliente.

Possibility to customize the cap with logo supplied by the customer.

Posibilidad de personalizar el cabezal con impresión del logotipo suministrado por el cliente.

## Testine in ottone

## Brass nozzle caps

## Cabezales de latón

Per / For / Para



COD.  
004332.030

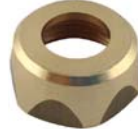


COD.  
HP18100

Per / For / Para



Ugelli a cono (HCA, HCC, HCI)  
Cone nozzles (HCA, HCC, HCI)  
Boquillas a cono (HCA, HCC, HCI)



COD.  
077L002GH



COD.  
077A003GU



COD.  
004332.031



COD.  
G10031

## TABELLE ADESIVE

- Indispensabile per completare la macchina irroratrice.
- Riepilogo delle portate, dimensioni goccia e metodo di calcolo.
- Stampato su laminato plastico ad alta resistenza.
- Collante specifico per l'applicazione su materiale plastico.
- Resistente ai raggi UV ed alle intemperie.
- Possibilità di personalizzazione\*.

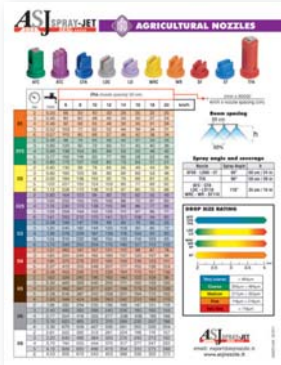
## ADHESIVE TABLES

- Essential to complete the spraying machine.
- Summary of flowrates, drops dimension and calculation method.
- Printed on high-resistance plastic laminate.
- Specific glue for application on plastic material.
- UV-resistant and weatherproof.
- Customizable\*.

## TABLAS ADHESIVAS

- Indispensable para completar la máquina pulverizadora.
- Resumen de los caudales, dimensión gotas y método de cálculo.
- Impresión en laminado plástico de alta resistencia.
- Pegamento específico para la aplicación en material plástico.
- Resistente a los rayos UV y a la intemperie.
- Posibilidad de personalización\*.

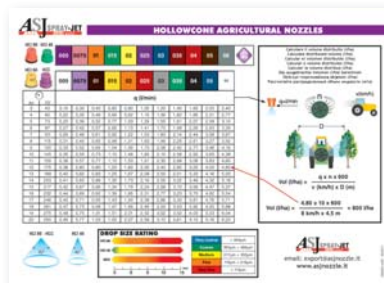
## CALCOLO PORTATE DI UGELLI PER BARRA DA DISERBO NOZZLES FOR BOOM SPRAYERS BOQUILLAS PARA BARRA DE PULVERIZACIÓN



- ATC, AFC, CFA, LDC, LD, WRC, WR, SF, EF, TFA
- 175L, 229H mm

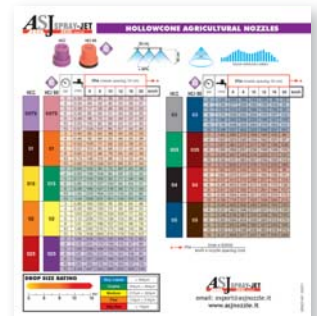
COD.  
D90023

## CALCOLO PORTATE DI UGELLI PER ATOMIZZATORE NOZZLES FOR ORCHARD SPRAYER BOQUILLAS PARA ATOMIZADOR



- HCI 80, HCI 60, HCI 40, HCC
- 237L, 172H mm

COD.  
D90024



- HCI 80, HCC
- 203L, 215H mm

COD.  
D90025

\* Contattare l'ufficio commerciale per le modalità di fornitura. - Please contact our Sales Office for supply conditions. - Contactar la oficina comercial para los modos de suministro.

## SPAZZOLINO

## BRUSH

## CEPILLO



Spazzolino per pulizia ugelli con possibilità di personalizzazione.

Brush for nozzle cleaning with customization possibility.

Cepillo para la limpieza de las boquillas con posibilidad de personalización.

COD.  
429100

**BLISTER**

Gli ugelli ASJ sono disponibili in blister per espositori da punto vendita.

**BLISTER PACKAGING**

ASJ nozzles come in blisters for display units in point of sales.

**BLÍSTERES**

Las boquillas ASJ están disponibles en blísteres para expositor en las tiendas.



| UGELLO - NOZZLE - BICO     |                          | Quantità per blister<br>Quantity per blister<br>Cantidad para blíster | Tipo blister<br>Blister type<br>Tipo blíster |
|----------------------------|--------------------------|-----------------------------------------------------------------------|----------------------------------------------|
| Tipo<br>Type<br>Tipo       | Serie<br>Series<br>Serie |                                                                       |                                              |
| Fan air ceramic            | AFC                      | 10                                                                    | B1                                           |
| Air off center             | AOC                      | 2                                                                     | B6                                           |
| Air twin ceramic           | ATC                      | 10                                                                    | B1                                           |
| Air twin plastic           | ATP                      | 10                                                                    | B1                                           |
| Boom extension nozzle      | BX                       | 2                                                                     | B6                                           |
| Compact fan air            | CFA                      | 10                                                                    | B1                                           |
| Compact fan air-T          | CFA-T                    | 10                                                                    | B1                                           |
| Compact fan air ultra      | CFA-U                    | 10                                                                    | B1                                           |
| Deflector                  | DEF                      | 25                                                                    | B2                                           |
| Deflector 140              | DEF140                   | 25                                                                    | B2                                           |
| Disc & Core                | NC DC                    | 25                                                                    | B2                                           |
| Evenfan                    | EF                       | 25                                                                    | B2                                           |
| Fast cup                   | FC                       | 5                                                                     | B3                                           |
| Filtro / filter            | 424xxx                   | 25                                                                    | B2                                           |
| Hollowcone                 | HC                       | 25                                                                    | B2                                           |
| Hollowcone air 60°         | HCA 60                   | 10                                                                    | B1                                           |
| Hollowcone air 80°         | HCA 80                   | 10                                                                    | B1                                           |
| Hollowcone ceramic         | HCC                      | 10                                                                    | B1                                           |
| Fullcone                   | HCF                      | 25                                                                    | B2                                           |
| Hollowcone ceramic ISO 40° | HCI 40                   | 10                                                                    | B1                                           |
| Hollowcone ceramic ISO 60° | HCI 60                   | 10                                                                    | B1                                           |
| Hollowcone ceramic ISO 80° | HCI 80                   | 10                                                                    | B1                                           |
| Low drift*                 | LD                       | 25                                                                    | B2                                           |
| Low drift ceramic          | LDC                      | 10                                                                    | B1                                           |
| Pentastream                | PSP                      | 10                                                                    | B1                                           |
| Standard flat fan          | SF                       | 10                                                                    | B1                                           |
| Standard flat fan          | SF                       | 25                                                                    | B2                                           |
| Standard fan air           | SFA                      | 10                                                                    | B1                                           |
| Twin fan standard          | TFS                      | 10                                                                    | B1                                           |
| Twin fan air               | TFA                      | 10                                                                    | B1                                           |
| Twin fan low drift         | TFLD                     | 10                                                                    | B1                                           |
| Wide range                 | WR                       | 25                                                                    | B2                                           |
| Wide range ceramic         | WRC                      | 10                                                                    | B1                                           |



COD.

D25000

Espositore da banco per 9 blister, capienza massima 63 blister, completo di tasca portacataloghi.

Counter display for 9 blister packs, containing max. 63 blisters, with catalogue holder.

Expositor de banco para 9 blíster, capacidad máxima de 63 blíster, con porta-catálogos.

\* Ogni blister di LOW DRIFT PLASTICO comprende una chiave di apertura

\* Each blister of PLASTIC LOW DRIFT nozzles include a suitable wrench.

\* Cada blíster de LOW DRIFT PLASTICO incluye una llave de apertura

**COME ORDINARE**

Aggiungere il "Tipo blister" alla fine del codice ugello.

...per esempio: per ordinare 100 ugelli Fan Air Ceramic Verdi in **blister**, l'ordine corretto è:

**AFC110015B1 quantità 10.**

(codice d'ordine AFC110015 + tipo blister B1 + quantità **BLISTER**)

**LA CANTITÀ DA ORDINARE SI RIFERISCE AL NUMERO DI BLISTER E NON AL NUMERO DI UGELLI.**

**HOW TO ORDER**

Add "Blister type" at the end of nozzle code.  
..for instance: to order 100 **blister-packed** Fan Air Ceramic Green nozzles, the correct coding is:

**AFC110015B1 quantity 10.**

(order code AFC110015 + blister type B1 + **BLISTER** quantity)

**ORDERED QUANTITY DOES NOT REFER TO NUMBER OF NOZZLES, BUT TO NUMBER OF BLISTERS.**

**CÓMO PEDIR LOS BLÍSTERES**

Agregar el "Tipo blíster" al final del código de la boquilla.

...por ejemplo: para ordenar 100 boquillas Fan Air Ceramic Verdes en **blíster**, el orden correcto es:

**AFC110015B1 cantidad 10.**

(código de orden AFC110015 + tipo de blíster B1 + cantidad de **BLÍSTERES**)

**LA CANTIDAD QUE SE ORDENA SE REFIERE AL NÚMERO DE BLÍSTERES Y NO AL NÚMERO DE BOQUILLAS.**

**CAMPANE PER DISERBO  
LOCALIZZATO**

**BELLS FOR LOCALIZED  
WEED-REMOVAL**

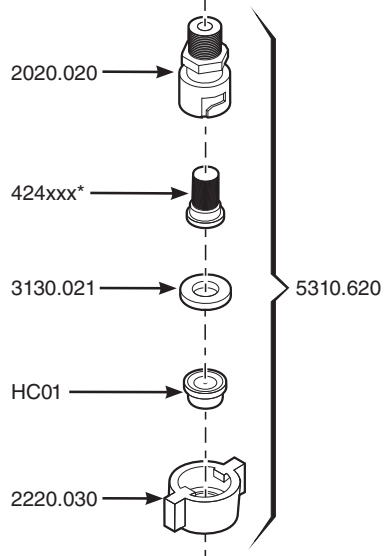
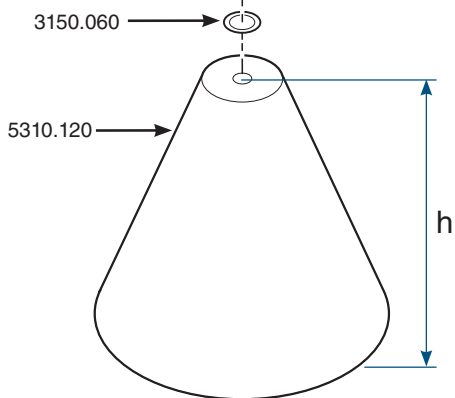
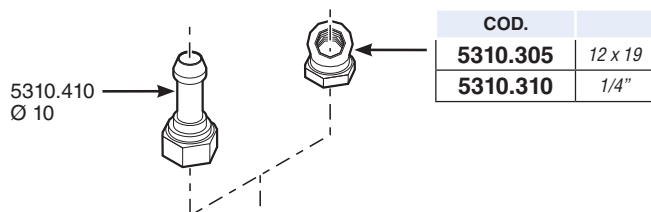
**CAMPANAS PARA DESHERBADO  
LOCALIZADO**

Accessori  
Accessories  
Accesorios



| COD. |         |
|------|---------|
| 5320 | 12 x 19 |

| Dim. (mm) |     |                                |
|-----------|-----|--------------------------------|
| Ø         | h   | h totale<br>total h<br>h total |
| 220       | 160 | 190                            |

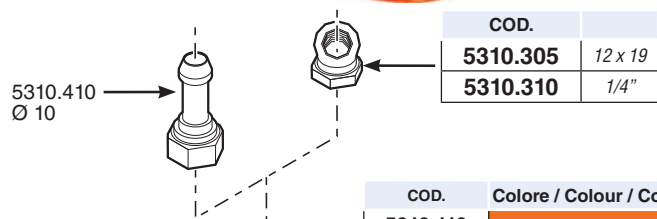


\* Non compresi (Pagina 85)

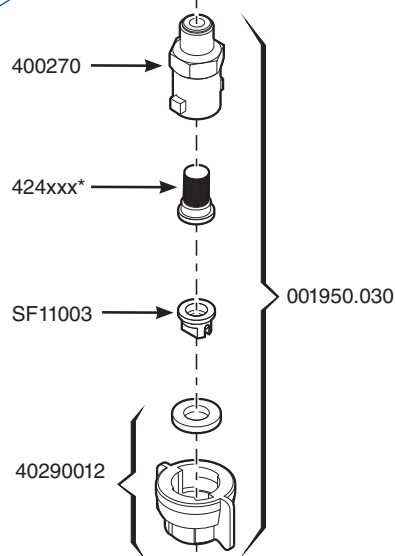
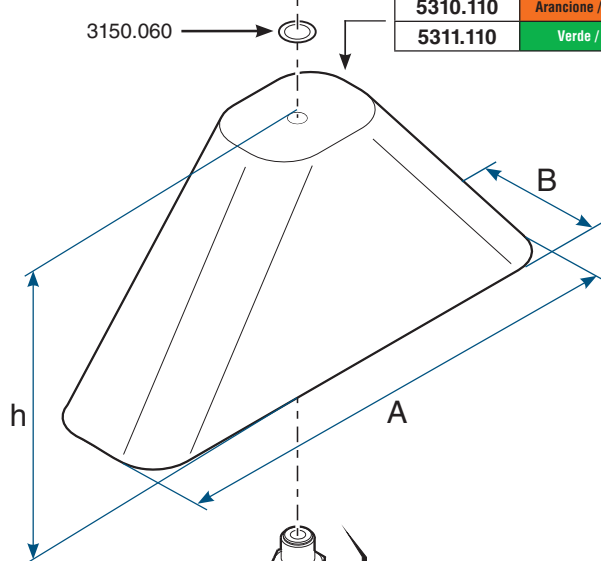


| COD. | Colore / Colour / Color      |         |
|------|------------------------------|---------|
| 5310 | Arancione / Orange / Naranja | 12 x 19 |
| 5311 | Verde / Green / Verde        |         |

| Dim. (mm) |     |     |                                |
|-----------|-----|-----|--------------------------------|
| A         | B   | h   | h totale<br>total h<br>h total |
| 350       | 120 | 170 | 200                            |



| COD.     | Colore / Colour / Color      |
|----------|------------------------------|
| 5310.110 | Arancione / Orange / Naranja |
| 5311.110 | Verde / Green / Verde        |



\* Not included (Page 85)

\* No incluidos (Pág 85)

## FILTRI



Filtro con antigoccia  
Ball check filter  
Filtro con antigoteo

| COD.     | Tipo / Type / Tipo | PACK |
|----------|--------------------|------|
| 4242313  | 50 mesh            | 50   |
| 42423135 | 80 mesh            |      |
| 4242314  | 100 mesh           |      |

## FILTERS



Filtro cilindro  
Cylindrical filter  
Filtro cilindro

| COD.     | Tipo / Type / Tipo | PACK |
|----------|--------------------|------|
| 4243313  | 50 mesh            | 50   |
| 42433135 | 80 mesh            |      |
| 4243314  | 100 mesh           |      |

## FILTROS



Filtro a calotta  
Cup filter  
Filtro con casquete

| COD.     | Tipo / Type / Tipo | PACK |
|----------|--------------------|------|
| 4242302  | 32 mesh            | 100  |
| 4242303  | 50 mesh            |      |
| 42423035 | 80 mesh            |      |
| 4242304  | 100 mesh           |      |



## CARTA IDROSENSIBILE



## WATER-SENSITIVE PAPER

Strisce di carta reagente, che diventano blu a contatto con l'acqua. Perfette per valutare la penetrazione, la copertura e la distribuzione del prodotto chimico sulla coltura. Confezione unitaria da 50 strisce.

Reagent paper strips turning blue when in contact with water. Ideal to assess chemical penetration, coverage and spraying. 50 pcs collector-strips each.

Bandas de papel reactivo, que se vuelven azules en caso de contacto con el agua. Perfectas para evaluar la penetración, la cobertura y la distribución del producto químico en el cultivo. Suministrado en paquetes de 50 tiras.

## PAPEL HIDROSENSIBLE

Carta idrosensibile  
Water-sensitive paper  
Papel hidrosensible

| COD.   | mm      |
|--------|---------|
| 429050 | 76 x 26 |
| 429051 | 76 x 52 |

## CARAFFA PER LA MISURAZIONE DELLA PORTATA UGELLI



## JUG FOR NOZZLES FLOW-RATE MEASUREMENT

- Indispensabile per il controllo delle irroratrici.
- Controllo portata l/min.
- Abaco per il controllo rapido dei l/ha.
- Regolo comparativo prestazioni ugelli.
- Fabbriato in polipropilene ad elevata resistenza.

- A must for sprayer checking.
- l/m flow rate checking.
- Abac scale for quick l/ha checking.
- Nozzle performance comparative rule.
- Made of highly resistant polypropylene.

- Indispensable para el control de las pulverizadoras.
- Control caudal l/min.
- Ábaco para el control rápido de los l/ha.
- Listón comparativo prestaciones boquillas.
- Fabricado en polipropileno de alta resistencia.

## RECIPIENTE PARA LA MEDICIÓN DEL CAUDAL DE LAS BOQUILLAS

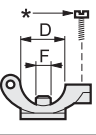
| COD.   |
|--------|
| 925101 |

Portagetto per diserbo a cavallotto snodato con attacco rapido (senza testina)  
Hinged clamp type nozzle holder with quick coupling (cap not included)  
Portaboquillas herbicidas con abrazadera articulada y acoplamiento rápido (sin cabezal)



| COD.    | D    | F (mm) | PACK |
|---------|------|--------|------|
| 400 730 | 1/2" | 7      | 10   |



| KIT VITE                                                                                   | SCREW KIT                                                              | KIT TORNILLO                                                            |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------|
|           | <b>COD.</b><br>V2B25F<br>Acciaio INOX<br>Stainless steel<br>Acero INOX | <b>Q.TÀ DA ORDINARE</b><br>Q.TY TO BE ORDERED<br>CANTIDAD DE PEDIR<br>1 |
| Da ordinarsi separatamente<br>To be ordered separately<br>Pedido deberá realizarse aparte. |                                                                        |                                                                         |

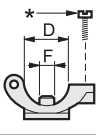
Portagetto per diserbo a cavallotto snodato con testina filettata G 3/8  
Hinged clamp type nozzle holder with 3/8" BSP threaded cap  
Portaboquillas herbicidas con abrazadera articulada y cabezal roscado G 3/8



| COD.    | D    | F (mm) | PACK |
|---------|------|--------|------|
| 400 530 | 1/2" | 7      | 10   |



| G 3/8 F                                                                             | COD.     | PACK |
|-------------------------------------------------------------------------------------|----------|------|
|  | 20001003 | 25   |
| Testina di ricambio<br>Spare cap<br>Cabezal de repuesto                             |          |      |

| KIT VITE                                                                                   | SCREW KIT                                                              | KIT TORNILLO                                                            |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------|
|          | <b>COD.</b><br>V2B25F<br>Acciaio INOX<br>Stainless steel<br>Acero INOX | <b>Q.TÀ DA ORDINARE</b><br>Q.TY TO BE ORDERED<br>CANTIDAD DE PEDIR<br>1 |
| Da ordinarsi separatamente<br>To be ordered separately<br>Pedido deberá realizarse aparte. |                                                                        |                                                                         |

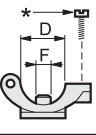
Portagetto per diserbo a cavallotto snodato con antigoccia a membrana e attacco rapido (senza testina)  
Hinged clamp type nozzle holder with diaphragm check valve and quick coupling (cap not included)  
Portaboquillas herbicidas con abrazadera articulada y antigota de membrana y acoplamiento rápido (sin cabezal)



| COD.     | D    | F (mm) | PACK |
|----------|------|--------|------|
| EPDM     |      |        |      |
| 402 735  | 1/2" | 7      | 10   |
| Viton®   |      |        |      |
| 402 735V |      |        |      |



| COD.                                                            | Type   |
|-----------------------------------------------------------------|--------|
| 005860.036                                                      | EPDM   |
| 005865.036                                                      | Viton® |
| Membrana di ricambio<br>Spare diaphragm<br>Membrana de repuesto |        |

| KIT VITE                                                                                   | SCREW KIT                                                              | KIT TORNILLO                                                            |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------|
|         | <b>COD.</b><br>V2B25F<br>Acciaio INOX<br>Stainless steel<br>Acero INOX | <b>Q.TÀ DA ORDINARE</b><br>Q.TY TO BE ORDERED<br>CANTIDAD DE PEDIR<br>1 |
| Da ordinarsi separatamente<br>To be ordered separately<br>Pedido deberá realizarse aparte. |                                                                        |                                                                         |

Portagetto per diserbo a cavallotto snodato con antigoccia a membrana e testina filettata G 3/8  
Hinged clamp type nozzle holder with diaphragm check valve and 3/8" BSP threaded cap  
Portaboquillas herbicidas con abrazadera articulada y antigota de membrana y cabezal roscado G 3/8

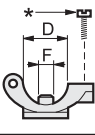


| COD.     | D    | F (mm) | PACK |
|----------|------|--------|------|
| EPDM     |      |        |      |
| 402 535  | 1/2" | 7      | 10   |
| Viton®   |      |        |      |
| 402 535V |      |        |      |



| COD.                                                            | Type   |
|-----------------------------------------------------------------|--------|
| 005860.036                                                      | EPDM   |
| 005865.036                                                      | Viton® |
| Membrana di ricambio<br>Spare diaphragm<br>Membrana de repuesto |        |

| G 3/8 F                                                                               | COD.     | PACK |
|---------------------------------------------------------------------------------------|----------|------|
|  | 20001003 | 25   |
| Testina di ricambio<br>Spare cap<br>Cabezal de repuesto                               |          |      |

| KIT VITE                                                                                   | SCREW KIT                                                              | KIT TORNILLO                                                            |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------|
|        | <b>COD.</b><br>V2B25F<br>Acciaio INOX<br>Stainless steel<br>Acero INOX | <b>Q.TÀ DA ORDINARE</b><br>Q.TY TO BE ORDERED<br>CANTIDAD DE PEDIR<br>1 |
| Da ordinarsi separatamente<br>To be ordered separately<br>Pedido deberá realizarse aparte. |                                                                        |                                                                         |

## PORTAGETTI

## NOZZLE HOLDERS

## PORTABOQUILLAS

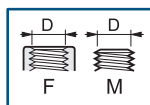
Portagetto per diserbo filettato con antigoccia a membrana e attacco rapido (senza testina)

Threaded nozzle holder with diaphragm check valve and quick coupling (cap not included)

Portaboquillas herbicidas roscado con antigota de membrana y acoplamiento rápido (sin cabezal)



| COD      |           | D            | PACK |
|----------|-----------|--------------|------|
| EPDM     | Viton®    |              |      |
| 402 275  | 402 275V  | G 1/4M (BSP) | 10   |
| 402 28A5 | 402 28A5V | G 1/4F (BSP) |      |
| 402 285  | 402 285V  | G 3/8F (BSP) |      |
| 402 295  | 402 295V  | 11/16" UNF   |      |

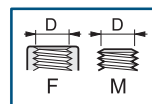


| COD        | Type   |                                         |
|------------|--------|-----------------------------------------|
| 005860.036 | EPDM   | Membrana di ricambio<br>Spare diaphragm |
| 005865.036 | Viton® | Membrana de repuesto                    |

Portagetto per diserbo filettato con antigoccia a membrana e testina filettata G 3/8

Threaded nozzle holder with diaphragm check valve and 3/8" BSP threaded cap

Portaboquillas herbicidas roscado con antigota de membrana y cabezal roscado G 3/8



| COD     |          | D            | PACK |
|---------|----------|--------------|------|
| EPDM    | Viton®   |              |      |
| 402 075 | 402 075V | G 1/4M (BSP) | 10   |
| 402 085 | 402 085V | G 3/8F (BSP) |      |
| 402 095 | 402 095V | 11/16" UNF   |      |

| COD        | Type   |                                         |
|------------|--------|-----------------------------------------|
| 005860.036 | EPDM   | Membrana di ricambio<br>Spare diaphragm |
| 005865.036 | Viton® | Membrana de repuesto                    |

| G 3/8 F                                                 | COD.     | PACK |
|---------------------------------------------------------|----------|------|
|                                                         | 20001003 | 25   |
| Testina di ricambio<br>Spare cap<br>Cabezal de repuesto |          |      |

# TRI-JET

Portagetto per diserbo a 3 vie a cavallotto snodato con antigoccia a membrana

Tri-jet con attacco rapido (senza testina).

Hinged clamp 3-way sprayer nozzle holder with diaphragm check valve

Tri-jet with quick coupling (cap not included).

Portaboquillas herbicidas de 3 vías con abrazadera articulada con antigota de membrana

Tri-jet con acoplamiento rápido (sin cabezal).

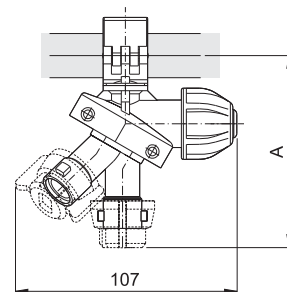


| COD.     |           | D    | F (mm) | A (mm) |
|----------|-----------|------|--------|--------|
| EPDM     | Viton®    |      |        |        |
| 4012 747 | 4012 747V | 1/2" | 10     | 93     |



| COD.       | Type   |                                         |
|------------|--------|-----------------------------------------|
| 005860.036 | EPDM   | Membrana di ricambio<br>Spare diaphragm |
| 005865.036 | Viton® | Membrana de repuesto                    |

Dimensioni (mm)  
Size (mm)  
Dimensiones (mm)



| KIT VITE                                                                                   | SCREW KIT                                     | KIT TORNILLO                                                |
|--------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------|
|                                                                                            | COD.                                          | Q.TÀ DA ORDINARE<br>Q.TY TO BE ORDERED<br>CANTIDAD DE PEDIR |
| 400 101                                                                                    | Acciaio INOX<br>Stainless steel<br>Acero INOX | 1                                                           |
| Da ordinarsi separatamente<br>To be ordered separately<br>Pedido deberá realizarse aparte. |                                               |                                                             |

## PORTAGETTI COMPACT JET

Portagetto per diserbo a 3-4-5 vie con antigoccia a membrana

- Attacco rapido.
- Disponibile con guarnizioni in EPDM o Viton®.
- Kit vite e dado in acciaio INOX forniti di serie.
- Ingombro ridotto.



## NOZZLE HOLDERS COMPACT JET

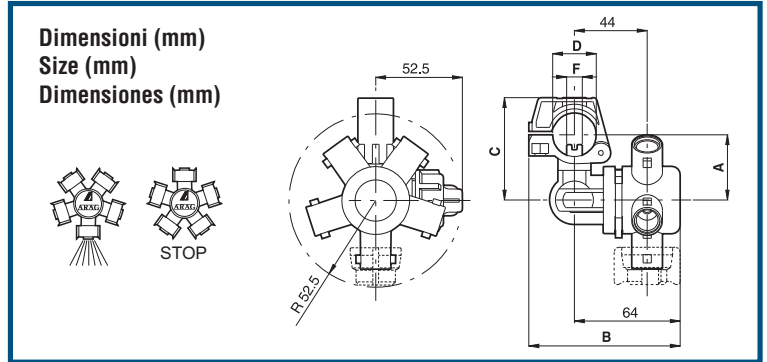
3-4-5 way nozzle holder with diaphragm check valve

- With quick coupling.
- Available with EPDM or Viton® gaskets.
- Screw and nut kit in STAINLESS STEEL supplied with the nozzle holder.
- Dimensions reduced.

## PORTABOQUILLAS COMPACT JET

Portaboquillas herbicidas de 3-4-5 vías con antigota de membrana

- Acoplamiento rápido.
- Disponible con juntas en EPDM o Viton®.
- Kit tornillo y tuerca de acero INOX suministrados con el portaboquillas.
- Dimension reducida.



3 vie  
3 ways  
3 vías



| COD.     |           | D    | F    | A    | B    | C    |
|----------|-----------|------|------|------|------|------|
| EPDM     | Viton®    | (mm) | (mm) | (mm) | (mm) | (mm) |
| 4064 247 | 4064 247V | 1/2" | 10   | 35   | 89   | 53.5 |

4 vie  
4 ways  
4 vías



| COD.     |           | D    | F    | A    | B    | C    |
|----------|-----------|------|------|------|------|------|
| EPDM     | Viton®    | (mm) | (mm) | (mm) | (mm) | (mm) |
| 4064 747 | 4064 747V | 1/2" | 10   | 35   | 89   | 53.5 |

| COD.                                                            | Type   |
|-----------------------------------------------------------------|--------|
| 005860.036                                                      | EPDM   |
| 005865.036                                                      | Viton® |
| Membrana di ricambio<br>Spare diaphragm<br>Membrana de repuesto |        |

5 vie  
5 ways  
5 vías



| COD.     |           | D    | F    | A    | B    | C    |
|----------|-----------|------|------|------|------|------|
| EPDM     | Viton®    | (mm) | (mm) | (mm) | (mm) | (mm) |
| 4064 947 | 4064 947V | 1/2" | 10   | 35   | 89   | 53.5 |

## PORTAGETTI E ACCESSORI

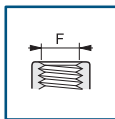
## NOZZLE HOLDERS AND ACCESSORIES

## PORTABOQUILLAS Y ACCESORIOS

Portagetto snodato con attacco rapido (senza testina)  
Swivel nozzle holder with quick coupling (cap not included)  
Portaboquillas articulado con acoplamiento rápido (sin cabezal)



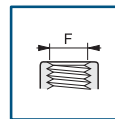
| COD.     | F           | PACK |
|----------|-------------|------|
| 404 072  | G 1/4 (BSP) | 10   |
| 404 072N | 1/4" NPT    |      |
| 404 082  | G 3/8 (BSP) |      |



Portagetto snodato con testina filettata G 3/8  
Swivel nozzle holder with 3/8" BSP threaded cap  
Portaboquillas articulado con cabezal roscado G 3/8



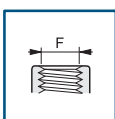
| COD.     | F           | PACK |
|----------|-------------|------|
| 404 070  | G 1/4 (BSP) | 10   |
| 404 070N | 1/4" NPT    |      |
| 404 080  | G 3/8 (BSP) |      |



Portagetto snodato con attacco rapido (senza testina)  
Swivel nozzle holder with quick coupling (cap not included)  
Portaboquillas articulado con acoplamiento rápido (sin cabezal)



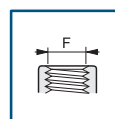
| COD.     | F           | PACK |
|----------|-------------|------|
| 404 172  | G 1/4 (BSP) | 10   |
| 404 172N | 1/4" NPT    |      |
| 404 182  | G 3/8 (BSP) |      |



Portagetto snodato con testina filettata G 3/8  
Swivel nozzle holder with 3/8" BSP threaded cap  
Portaboquillas articulado con cabezal roscado G 3/8



| COD.     | F           | PACK |
|----------|-------------|------|
| 404 170  | G 1/4 (BSP) | 10   |
| 404 170N | 1/4" NPT    |      |
| 404 180  | G 3/8 (BSP) |      |



Derivazione a 45° per doppio attacco rapido  
45° connection for double quick fitting  
Conexion 45° para doble acoplamiento rápido



| COD.      | PACK |
|-----------|------|
| 4029 1601 | 25   |

Attacco rapido per testina 90°  
Quick fitting connection for 90° cap  
Acople rapido para boquilla 90°



| COD.      | PACK |
|-----------|------|
| 4029 1401 | 25   |

Terminale 1/2" F con attacco rapido a 45°  
1/2" F end fitting with 45° quick fitting  
Racor final 1/2" hembra con acople rapido 45°



| COD.    | F    | PACK |
|---------|------|------|
| 400 279 | 1/2" | 25   |
| 400 280 | 3/4" |      |

Morsetto bloccaggio barra diserbo  
Spray boom locking clamp  
Mordaza de sujeción barra herbicida



| COD.    | PACK |
|---------|------|
| 425 001 | 10   |

Morsetto supporto barra diserbo  
Spray boom support clamp  
Mordaza de soporte barra herbicida



| COD.    | Ø     | PACK |
|---------|-------|------|
| 425 021 | 1/2"  | 10   |
| 425 022 | 1/2"  |      |
| 425 031 | 20 mm |      |
| 425 032 | 20 mm |      |

Morsetto supporto barra diserbo zincato  
Galvanised spray boom support clamp  
Mordaza de soporte barra herbicida galvanizada



| COD.    | Ø    | PACK |
|---------|------|------|
| 004 208 | 1/2" | 5    |
| 004 209 | 1/2" |      |

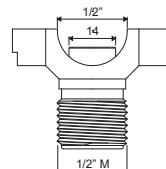
Manicotto attacco rapido per lavaggio barra  
Boom flushing quick-fitting adapter  
Manguito de acoplamiento rápido para lavar la barra



| COD.    | F           | PACK |
|---------|-------------|------|
| 400 277 | G 1/2 (BSP) | 25   |
| 400 278 | G 3/4 (BSP) |      |

| COD.       | PACK |
|------------|------|
| 402 909 01 | 25   |

Raccordo per alimentazione barra  
Boom inlet feeding  
Conexión para alimentación barra



| COD.    |
|---------|
| 400 64B |

I raccordi con attacco femmina 1/2"  
cod. 100215 e 100219 sono da ordinare  
separatamente

Fittings with 1/2" female connector  
code 100215 and 100219 must be ordered  
separately

Los empalmes con acople hembra 1/2"  
cód. 100215 y 100219 se deben ordenar por  
separado

## PORTAGETTI

## NOZZLE HOLDERS

## PORTABOQUILLAS

### Portagetto orientabile per trattamenti senza barra

- Utilizzabile senza barra di irrorazione
- Ideale per il trattamento di frutteti, vigneti, prati, pascoli, e campi da golf
- Gocce di grandi dimensioni per offrire una minore deriva del prodotto
- Orientabile per regolare perfettamente la larghezza di trattamento.

### Adjustable nozzle holder for spraying without boom

- To be used without spraying boom
- Ideal for spraying orchards, vineyards, grasses, grazing lands and golf courses
- Big size drops for low product drift
- Adjustable to have the most suitable spraying width.

### Porta-boquillas orientable para tratamientos sin barra

- Utilizable sin barra de irrigación
- Ideal para el tratamiento de plantaciones frutales, viñedos, prados, pasturas y campos de golf
- Gotas de grandes dimensiones para ofrecer una menor deriva del producto
- Orientable para regular perfectamente el ancho del tratamiento.



### FILETTATO / THREADED / ROSCADA

| COD.      | Ø tubo<br>Ø pipe<br>Ø tubo |
|-----------|----------------------------|
| Viton®    |                            |
| 4065 445C | G 1/2" F                   |



Ugelli BX a pag. 74 da ordinare separatamente.  
BX nozzles at p. 74, to be ordered separately.  
Boquillas BX en la pág. 74 para pedir por separado.



### EASY FIT

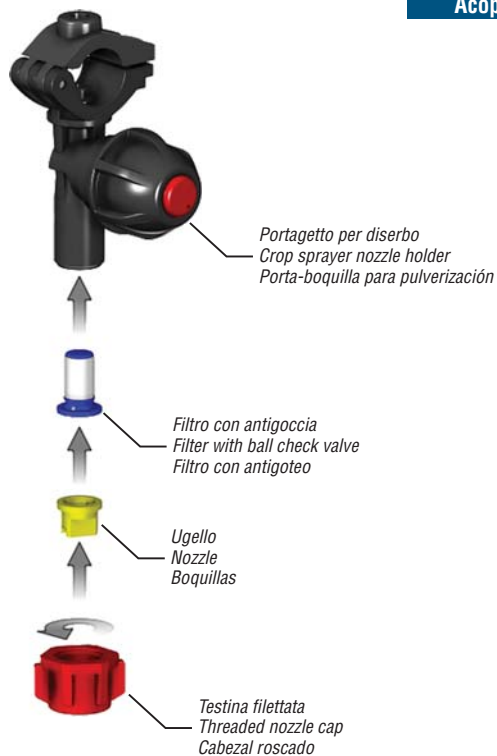
| COD.      | Ø tubo<br>Ø pipe<br>Ø tubo |
|-----------|----------------------------|
| Viton®    |                            |
| 4065 845C | 1/2"                       |
| 4065 855C | 3/4"                       |
| 4065 865C | 1"                         |



Ugelli BX a pag. 74 da ordinare separatamente.  
BX nozzles at p. 74, to be ordered separately.  
Boquillas BX en la pág. 74 para pedir por separado.

# Esempi di montaggio Assembly examples Ejemplos de montaje

## UGELLI A VENTAGLIO

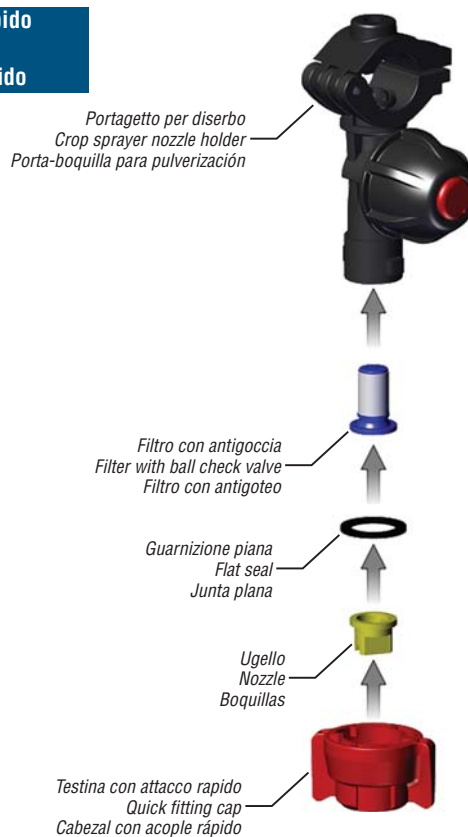


Attacco filettato  
Threaded coupling  
Acople roscado

## FAN NOZZLES

Attacco rapido  
Quick fit  
Acople rápido

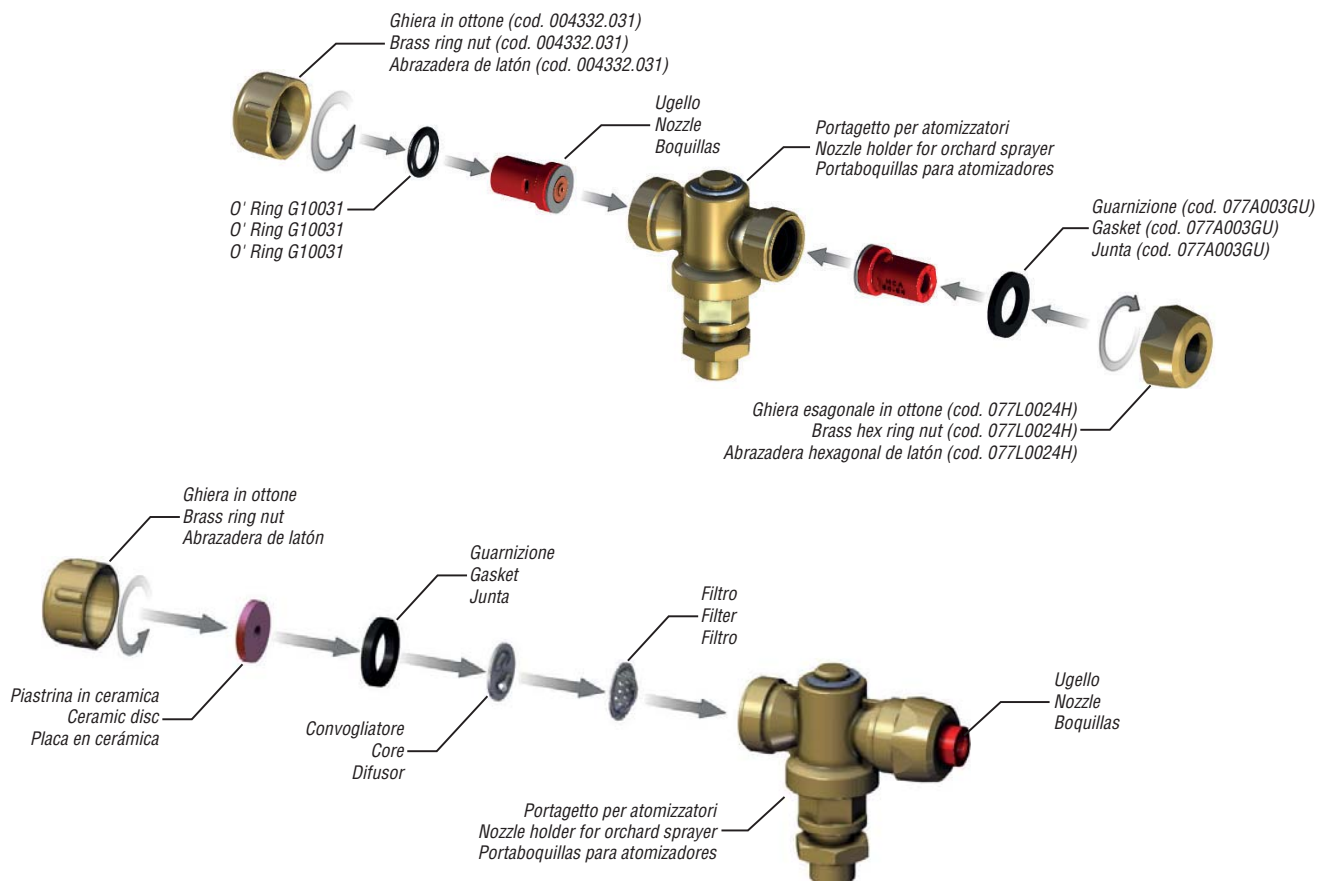
## BOQUILLA EN ABANICO



## UGELLI A CONO

## CONE NOZZLES

## BOQUILLA EN CONO



# GOCCE DROPS GOTAS

## LEGENDA

|  | DIMENSIONE DELLE GOCCE<br>DROP SIZE RATING<br>DIMENSIONES DE LAS GOTAS |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------|
| <b>VF</b>                                                                       | Molto fine-Very fine-Muy fina                                          |
| <b>F</b>                                                                        | Fine-Fine-Fina                                                         |
| <b>M</b>                                                                        | Media-Medium-Media                                                     |
| <b>C</b>                                                                        | Grossa-Coarse-Gruesa                                                   |
| <b>VC</b>                                                                       | Molto grossa-Very coarse-Muy gruesa                                    |
| <b>XC</b>                                                                       | Estremamente grossa-Extremely coarse-Extremadamente gruesa             |
| <b>UC</b>                                                                       | Ultra grossa- Ultra coarse-Ultra gruesa                                |

Classificazione in accordo con lo standard ASABE S572.3 e la norma ISO25358

Classification according to ASABE S572.3 and ISO25358

Clasificación según ASABE S572.3 e ISO25358

## LEGEND

## LEYENDA

| Standard Flat Fan                                                                 |     |   |    |    |  |
|-----------------------------------------------------------------------------------|-----|---|----|----|--|
|  | bar |   |    |    |  |
|                                                                                   | 1,5 | 3 | 5  | 7  |  |
| SF08001                                                                           | F   | F | VF | VF |  |
| SF080015                                                                          | F   | F | F  | VF |  |
| SF08002                                                                           | F   | F | F  | F  |  |
| SF08003                                                                           | M   | F | F  | F  |  |
| SF08004                                                                           | M   | M | F  | F  |  |
| SF08005                                                                           | M   | M | M  | M  |  |
| SF08006                                                                           | M   | M | M  | M  |  |
| SF08008                                                                           | M   | M | M  | M  |  |
| SF08010                                                                           | C   | C | M  | M  |  |

| Standard Flat Fan                                                                 |     |   |    |    |  |
|-----------------------------------------------------------------------------------|-----|---|----|----|--|
|  | bar |   |    |    |  |
|                                                                                   | 1,5 | 3 | 5  | 7  |  |
| SF11001                                                                           | F   | F | VF | VF |  |
| SF110015                                                                          | F   | F | F  | VF |  |
| SF11002                                                                           | F   | F | F  | F  |  |
| SF110025                                                                          | F   | F | F  | F  |  |
| SF11003                                                                           | F   | F | F  | F  |  |
| SF11004                                                                           | M   | F | F  | F  |  |
| SF11005                                                                           | M   | F | F  | F  |  |
| SF11006                                                                           | M   | M | M  | F  |  |
| SF11008                                                                           | M   | M | M  | M  |  |
| SF11010                                                                           | M   | M | M  | M  |  |
| SF11015                                                                           | C   | C | C  | C  |  |

| Wide Range                                                                         |     |   |   |    |    |
|------------------------------------------------------------------------------------|-----|---|---|----|----|
|  | bar |   |   |    |    |
|                                                                                    | 1   | 2 | 3 | 5  | 7  |
| WR11001                                                                            | F   | F | F | VF | VF |
| WR110015                                                                           | F   | F | F | F  | VF |
| WR11002                                                                            | M   | F | F | F  | F  |
| WR110025                                                                           | M   | F | F | F  | F  |
| WR11003                                                                            | M   | M | F | F  | F  |
| WR11004                                                                            | M   | M | M | M  | M  |
| WR11005                                                                            | M   | M | M | M  | M  |
| WR11006                                                                            | C   | M | M | M  | M  |

| Wide Range Ceramic                                                                  |     |   |   |   |    |
|-------------------------------------------------------------------------------------|-----|---|---|---|----|
|  | bar |   |   |   |    |
|                                                                                     | 1   | 2 | 3 | 5 | 7  |
| WRC110015                                                                           | F   | F | F | F | VF |
| WRC11002                                                                            | F   | F | F | F | F  |
| WRC110025                                                                           | M   | F | F | F | F  |
| WRC11003                                                                            | M   | F | F | F | F  |
| WRC11004                                                                            | M   | M | F | F | F  |
| WRC11005                                                                            | M   | M | F | F | F  |
| WRC11006                                                                            | M   | M | M | M | M  |
| WRC11008                                                                            | C   | M | M | M | M  |

| Twin Fan Standard                                                                  |     |   |   |   |    |    |
|------------------------------------------------------------------------------------|-----|---|---|---|----|----|
|  | bar |   |   |   |    |    |
|                                                                                    | 1.5 | 2 | 3 | 4 | 6  | 8  |
| TFS11002                                                                           | F   | F | F | F | VF | VF |
| TFS11003                                                                           | M   | M | F | F | F  | F  |
| TFS11004                                                                           | M   | M | F | F | F  | F  |
| TFS11005                                                                           | M   | M | M | M | F  | F  |

| Evenfan                                                                             |     |   |   |   |    |
|-------------------------------------------------------------------------------------|-----|---|---|---|----|
|  | bar |   |   |   |    |
|                                                                                     | 1   | 2 | 3 | 5 | 7  |
| EF080015                                                                            | F   | F | F | F | VF |
| EF08002                                                                             | F   | F | F | F | F  |
| EF08003                                                                             | M   | F | F | F | F  |
| EF08004                                                                             | M   | M | F | F | F  |

| Low Drift                                                                           |     |   |   |    |    |
|-------------------------------------------------------------------------------------|-----|---|---|----|----|
|  | bar |   |   |    |    |
|                                                                                     | 1.5 | 3 | 4 | 5  | 7  |
| LD11001                                                                             | F   | F | F | VF | VF |
| LD110015                                                                            | F   | F | F | F  | F  |
| LD11002                                                                             | M   | F | F | F  | F  |
| LD110025                                                                            | M   | M | M | M  | M  |
| LD11003                                                                             | M   | M | M | M  | M  |
| LD11004                                                                             | M   | M | M | M  | M  |
| LD11005                                                                             | C   | C | M | M  | M  |

| Low Drift                                                                           |     |   |   |   |   |
|-------------------------------------------------------------------------------------|-----|---|---|---|---|
|  | bar |   |   |   |   |
|                                                                                     | 1.5 | 3 | 4 | 5 | 7 |
| LD08001                                                                             | F   | F | F | F | F |
| LD080015                                                                            | F   | F | F | F | F |
| LD08002                                                                             | M   | F | F | F | F |
| LD08003                                                                             | M   | M | M | M | M |
| LD08004                                                                             | M   | M | M | M | M |
| LD08005                                                                             | C   | C | C | C | M |

# GOCCE DROPS GOTAS

| Fast Cap |     |   |   |   |    |
|----------|-----|---|---|---|----|
| FC       |     |   |   |   |    |
|          | bar |   |   |   |    |
|          | 1   | 2 | 3 | 5 | 7  |
| FC110015 | F   | F | F | F | VF |
| FC11002  | F   | F | F | F | F  |
| FC110025 | M   | F | F | F | F  |
| FC11003  | M   | F | F | F | F  |
| FC11004  | M   | M | F | F | F  |
| FC11005  | M   | M | F | F | F  |
| FC11006  | M   | M | M | M | M  |
| FC11008  | C   | M | M | M | M  |

| Low Drift Ceramic |     |   |   |   |   |
|-------------------|-----|---|---|---|---|
| LDC               |     |   |   |   |   |
|                   | bar |   |   |   |   |
|                   | 1   | 3 | 4 | 5 | 7 |
| LDC11001          | M   | F | F | F | F |
| LDC110015         | M   | F | F | F | F |
| LDC11002          | M   | F | F | F | F |
| LDC110025         | M   | M | M | M | M |
| LDC11003          | C   | M | M | M | M |
| LDC11004          | C   | M | M | M | M |
| LDC11005          | XC  | C | C | C | C |
| LDC11006          | XC  | C | C | C | C |

| Compact Fan Air Standard Fan Air |           |     |    |    |    |    |
|----------------------------------|-----------|-----|----|----|----|----|
|                                  |           | bar |    |    |    |    |
|                                  |           | 1.5 | 3  | 5  | 7  | 8  |
| CFA                              | CFA11001  | VC  | C  | M  | M  | M  |
|                                  | CFA110015 | XC  | C  | C  | M  | M  |
|                                  | CFA11002  | XC  | VC | C  | C  | C  |
|                                  | CFA110025 | XC  | VC | C  | C  | C  |
|                                  | CFA11003  | XC  | VC | C  | C  | C  |
|                                  | CFA11004  | XC  | VC | C  | C  | C  |
|                                  | CFA11005  | XC  | VC | C  | C  | C  |
| SFA                              | CFA11006  | XC  | C  | C  | C  | C  |
|                                  | CFA11008  | XC  | VC | C  | C  | C  |
|                                  | SFA11006  | UC  | XC | XC | XC | XC |
|                                  | SFA11008  | XC  | XC | VC | VC | VC |
|                                  | SFA11010  | UC  | UC | XC | XC | XC |

| Compact Fan Air Ultra |     |    |    |    |    |    |    |
|-----------------------|-----|----|----|----|----|----|----|
| CFA-U                 |     |    |    |    |    |    |    |
|                       | bar |    |    |    |    |    |    |
|                       | 1,5 | 3  | 4  | 5  | 6  | 7  | 8  |
| CFAU11001             | XC  | C  | C  | M  | M  | M  | M  |
| CFAU110015            | UC  | C  | C  | C  | C  | M  | M  |
| CFAU11002             | UC  | XC | XC | XC | VC | VC | VC |
| CFAU110025            | XC  | XC | VC | VC | VC | C  | C  |
| CFAU11003             | UC  | XC | XC | XC | VC | VC | VC |
| CFAU11004             | UC  | XC | XC | XC | VC | VC | VC |
| CFAU11005             | UC  | UC | XC | XC | XC | XC | XC |

| Compact Fan Air-T |     |    |    |    |    |
|-------------------|-----|----|----|----|----|
| CFA-T             |     |    |    |    |    |
|                   | bar |    |    |    |    |
|                   | 1.5 | 3  | 4  | 6  | 8  |
| CFAT110015        | XC  | XC | VC | C  | C  |
| CFAT11002         | UC  | XC | XC | XC | VC |
| CFAT110025        | UC  | XC | XC | XC | VC |
| CFAT11003         | UC  | XC | XC | VC | VC |
| CFAT11004         | UC  | XC | XC | XC | VC |
| CFAT11005         | UC  | XC | XC | VC | VC |

| Fan Air Ceramic |     |    |   |   |
|-----------------|-----|----|---|---|
| AFC 110°        |     |    |   |   |
|                 | bar |    |   |   |
|                 | 1.5 | 3  | 4 | 8 |
| AFC11001        | XC  | C  | C | M |
| AFC110015       | XC  | C  | C | M |
| AFC11002        | VC  | C  | C | M |
| AFC110025       | C   | M  | M | M |
| AFC11003        | VC  | C  | M | M |
| AFC11004        | XC  | VC | C | C |
| AFC11005        | VC  | C  | C | C |
| AFC11006        | XC  | C  | C | C |

| Fan Air Ceramic |     |    |    |    |    |    |    |   |    |    |    |    |
|-----------------|-----|----|----|----|----|----|----|---|----|----|----|----|
| AFC 80°         |     |    |    |    |    |    |    |   |    |    |    |    |
|                 | bar |    |    |    |    |    |    |   |    |    |    |    |
|                 | 1.5 | 2  | 3  | 4  | 5  | 6  | 7  | 8 | 10 | 12 | 15 | 20 |
| AFC08001        | XC  | VC | C  | C  | M  | M  | M  | M | M  | M  | M  | M  |
| AFC080015       | VC  | C  | M  | M  | M  | M  | M  | M | M  | M  | M  | M  |
| AFC08002        | XC  | VC | C  | C  | C  | M  | M  | M | M  | M  | M  | M  |
| AFC080025       | VC  | C  | C  | M  | M  | M  | M  | M | M  | M  | M  | M  |
| AFC08003        | VC  | VC | C  | C  | C  | M  | M  | M | M  | M  | M  | M  |
| AFC080035       | XC  | XC | VC | VC | VC | C  | C  | C | C  | C  | C  | C  |
| AFC08004        | XC  | XC | VC | VC | VC | C  | C  | C | C  | C  | C  | C  |
| AFC08005        | XC  | XC | VC | VC | VC | C  | C  | C | C  | C  | C  | C  |
| AFC08006        | XC  | XC | XC | VC | VC | VC | VC | C | C  | C  | C  | C  |

| Air twin plastic |     |    |    |   |   |
|------------------|-----|----|----|---|---|
| ATP              |     |    |    |   |   |
|                  | bar |    |    |   |   |
|                  | 1.5 | 3  | 5  | 7 | 8 |
| ATP3030015       | C   | M  | M  | F | F |
| ATP303002        | XC  | VC | C  | M | M |
| ATP3030025       | VC  | C  | M  | M | M |
| ATP303003        | VC  | C  | M  | M | M |
| ATP303004        | VC  | C  | C  | M | M |
| ATP303005        | VC  | C  | C  | M | M |
| ATP303006        | XC  | VC | VC | C | C |
| ATP303008        | XC  | XC | VC | C | C |

| Twin Fan Air |     |    |    |    |    |   |
|--------------|-----|----|----|----|----|---|
| TFA          |     |    |    |    |    |   |
|              | bar |    |    |    |    |   |
|              | 1.5 | 2  | 3  | 4  | 6  | 8 |
| TFA11002     | XC  | XC | VC | C  | C  | M |
| TFA110025    | UC  | UC | XC | XC | C  | C |
| TFA11003     | UC  | XC | XC | XC | C  | C |
| TFA11004     | UC  | UC | XC | XC | VC | C |
| TFA11005     | XC  | XC | VC | C  | C  | C |

| Air Twin Ceramic                                                                     |     |    |   |   |   |
|--------------------------------------------------------------------------------------|-----|----|---|---|---|
|  ATC | bar |    |   |   |   |
|                                                                                      | 1,5 | 3  | 4 | 6 | 8 |
| ATC110015                                                                            | XC  | C  | C | M | M |
| ATC11002                                                                             | XC  | VC | C | M | M |
| ATC110025                                                                            | XC  | C  | C | M | M |
| ATC11003                                                                             | VC  | C  | C | M | M |
| ATC11004                                                                             | XC  | VC | C | C | M |
| ATC11005                                                                             | VC  | C  | C | M | M |
| ATC11006                                                                             | C   | C  | M | M | M |

| Twin Fan Low Drift                                                                     |     |    |    |    |   |   |
|----------------------------------------------------------------------------------------|-----|----|----|----|---|---|
|  TFLD | bar |    |    |    |   |   |
|                                                                                        | 1.5 | 2  | 3  | 4  | 6 | 8 |
| TFLD11002                                                                              | XC  | VC | C  | C  | M | M |
| TFLD110025                                                                             | XC  | XC | VC | C  | C |   |
| TFLD11003                                                                              | XC  | XC | VC | VC | C | C |
| TFLD11004                                                                              | XC  | XC | VC | VC | C | C |
| TFLD11005                                                                              | XC  | VC | VC | VC | C | C |

| Hollowcone Air 80°                                                                      |     |    |    |    |
|-----------------------------------------------------------------------------------------|-----|----|----|----|
|  HCA 80 | bar |    |    |    |
|                                                                                         | 5   | 10 | 15 | 20 |
| HCA8001                                                                                 | VC  | M  | M  | M  |
| HCA80015                                                                                | VC  | M  | M  | M  |
| HCA8002                                                                                 | VC  | M  | M  | M  |
| HCA80025                                                                                | XC  | C  | C  | M  |
| HCA8003                                                                                 | VC  | C  | M  | M  |
| HCA80035                                                                                | UC  | XC | VC | VC |
| HCA8004                                                                                 | VC  | C  | C  | C  |
| HCA8005                                                                                 | XC  | VC | VC | C  |

| Hollowcone Air 60°                                                                       |     |    |    |    |
|------------------------------------------------------------------------------------------|-----|----|----|----|
|  HCA 60 | bar |    |    |    |
|                                                                                          | 5   | 10 | 15 | 20 |
| HCA600075                                                                                | XC  | VC | C  | C  |
| HCA6001                                                                                  | XC  | XC | VC | VC |
| HCA60015                                                                                 | XC  | C  | C  | C  |
| HCA6002                                                                                  | VC  | C  | M  | M  |
| HCA60025                                                                                 | XC  | C  | C  | C  |
| HCA6003                                                                                  | VC  | C  | C  | C  |
| HCA60035                                                                                 | XC  | C  | C  | C  |
| HCA6004                                                                                  | VC  | C  | C  | C  |
| HCA6005                                                                                  | VC  | C  | C  | C  |
| HCA6006                                                                                  | C   | C  | M  | M  |

| Hollowcone Air 40°                                                                        |     |    |    |    |
|-------------------------------------------------------------------------------------------|-----|----|----|----|
|  HCA 40 | bar |    |    |    |
|                                                                                           | 5   | 10 | 15 | 20 |
| HCA6002                                                                                   | C   | M  | M  | M  |
| HCA60025                                                                                  | C   | M  | M  | M  |
| HCA6003                                                                                   | C   | M  | M  | M  |
| HCA6004                                                                                   | VC  | C  | C  | C  |

| Hollowcone Ceramic                                                                      |     |    |    |    |    |    |    |    |
|-----------------------------------------------------------------------------------------|-----|----|----|----|----|----|----|----|
|  HCC | bar |    |    |    |    |    |    |    |
|                                                                                         | 3   | 4  | 5  | 6  | 8  | 10 | 15 | 20 |
| HCC005                                                                                  | VF  | VF | VF | VF | VF | VF | VF | VF |
| HCC0075                                                                                 | VF  | VF | VF | VF | VF | VF | VF | VF |
| HCC01                                                                                   | VF  | VF | VF | VF | VF | VF | VF | VF |
| HCC015                                                                                  | F   | VF | VF | VF | VF | VF | VF | VF |
| HCC02                                                                                   | F   | F  | VF | VF | VF | VF | VF | VF |
| HCC025                                                                                  | F   | F  | F  | F  | F  | VF | VF | VF |
| HCC03                                                                                   | F   | F  | F  | F  | F  | F  | VF | VF |
| HCC035                                                                                  | F   | F  | F  | F  | F  | F  | VF | VF |
| HCC04                                                                                   | F   | F  | F  | F  | F  | F  | VF | VF |
| HCC05                                                                                   | M   | M  | M  | F  | F  | F  | F  | F  |
| HCC05                                                                                   | M   | M  | M  | M  | F  | F  | F  | F  |

| Hollowcone Ceramic ISO 80°                                                                |     |    |    |    |    |    |    |    |
|-------------------------------------------------------------------------------------------|-----|----|----|----|----|----|----|----|
|  HCI 80 | bar |    |    |    |    |    |    |    |
|                                                                                           | 3   | 4  | 5  | 6  | 8  | 10 | 15 | 20 |
| HCI80005                                                                                  | VF  | VF | VF | VF | VF | VF | VF | VF |
| HCI800075                                                                                 | VF  | VF | VF | VF | VF | VF | VF | VF |
| HCI8001                                                                                   | VF  | VF | VF | VF | VF | VF | VF | VF |
| HCI80015                                                                                  | F   | VF | VF | VF | VF | VF | VF | VF |
| HCI8002                                                                                   | F   | F  | VF | VF | VF | VF | VF | VF |
| HCI80025                                                                                  | F   | F  | F  | F  | F  | VF | VF | VF |
| HCI8003                                                                                   | F   | F  | F  | F  | F  | F  | VF | VF |
| HCI80035                                                                                  | F   | F  | F  | F  | F  | F  | VF | VF |
| HCI8004                                                                                   | F   | F  | F  | F  | F  | F  | VF | VF |
| HCI8005                                                                                   | M   | M  | M  | F  | F  | F  | F  | F  |
| HCI8006                                                                                   | M   | M  | M  | M  | F  | F  | F  | F  |

| Hollowcone Ceramic ISO 60°                                                                 |     |    |    |    |    |    |    |    |
|--------------------------------------------------------------------------------------------|-----|----|----|----|----|----|----|----|
|  HCI 60 | bar |    |    |    |    |    |    |    |
|                                                                                            | 3   | 4  | 5  | 6  | 8  | 10 | 15 | 20 |
| HCI60005                                                                                   | F   | VF | VF | VF | VF | VF | VF | VF |
| HCI600075                                                                                  | F   | VF | VF | VF | VF | VF | VF | VF |
| HCI6001                                                                                    | F   | VF | VF | VF | VF | VF | VF | VF |
| HCI60015                                                                                   | F   | VF | VF | VF | VF | VF | VF | VF |
| HCI6002                                                                                    | F   | F  | F  | F  | VF | VF | VF | VF |
| HCI60025                                                                                   | F   | F  | F  | F  | F  | F  | VF | VF |
| HCI6003                                                                                    | F   | F  | F  | F  | F  | F  | VF | VF |
| HCI60035                                                                                   | F   | F  | F  | F  | F  | F  | VF | VF |
| HCI6004                                                                                    | M   | M  | M  | M  | F  | F  | F  | F  |
| HCI6005                                                                                    | M   | M  | M  | M  | F  | F  | F  | F  |
| HCI6006                                                                                    | M   | M  | M  | M  | M  | F  | F  | F  |

| Hollowcone Ceramic ISO 40°                                                                |     |   |    |    |    |    |    |    |
|-------------------------------------------------------------------------------------------|-----|---|----|----|----|----|----|----|
|  HCI 40 | bar |   |    |    |    |    |    |    |
|                                                                                           | 3   | 4 | 5  | 6  | 8  | 10 | 15 | 20 |
| HCI4001                                                                                   | F   | F | VF | VF | VF | VF | VF | VF |
| HCI40015                                                                                  | F   | F | F  | VF | VF | VF | VF | VF |
| HCI4002                                                                                   | M   | F | F  | F  | F  | VF | VF | VF |
| HCI40025                                                                                  | M   | F | F  | F  | F  | F  | VF | VF |
| HCI4003                                                                                   | M   | M | F  | F  | F  | F  | F  | F  |
| HCI40035                                                                                  | M   | M | M  | M  | M  | M  | F  | F  |
| HCI4004                                                                                   | M   | M | M  | M  | M  | M  | F  | F  |
| HCI4005                                                                                   | M   | M | M  | M  | M  | M  | F  | F  |
| HCI4006                                                                                   | C   | M | M  | M  | M  | M  | F  | F  |

| Fullcone                                                                                |     |   |   |   |   |    |    |
|-----------------------------------------------------------------------------------------|-----|---|---|---|---|----|----|
|  HCF | bar |   |   |   |   |    |    |
|                                                                                         | 2   | 3 | 4 | 5 | 6 | 8  | 10 |
| HCF80015                                                                                | F   | F | F | F | F | VF | VF |
| HCF8002                                                                                 | M   | F | F | F | F | F  | VF |
| HCF8003                                                                                 | M   | M | F | F | F | F  | F  |
| HCF8004                                                                                 | C   | M | M | M | F | F  | F  |

# GOCCE DROPS GOTAS

| Hollowcone                                                                           |                                                                                          |   |   |   |    |    |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---|---|---|----|----|
|  HC | <br>bar |   |   |   |    |    |
|                                                                                      | 1                                                                                        | 2 | 3 | 5 | 8  | 10 |
| HC8001                                                                               | F                                                                                        | F | F | F | VF | VF |
| HC80015                                                                              | F                                                                                        | F | F | F | VF | VF |
| HC8002                                                                               | F                                                                                        | F | F | F | VF | VF |
| HC80025                                                                              | M                                                                                        | F | F | F | VF | VF |
| HC8003                                                                               | M                                                                                        | F | F | F | F  | VF |
| HC80035                                                                              | M                                                                                        | F | F | F | F  | F  |
| HC8004                                                                               | M                                                                                        | F | F | F | F  | F  |
| HC8005                                                                               | M                                                                                        | M | M | F | F  | F  |
| HC8006                                                                               | M                                                                                        | M | M | M | F  | F  |

| Hollowcone Small                                                                      |                                                                                            |   |    |    |    |    |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---|----|----|----|----|
|  HCS | <br>bar |   |    |    |    |    |
|                                                                                       | 1                                                                                          | 2 | 3  | 5  | 8  | 10 |
| HCS80100                                                                              | M                                                                                          | F | VF | VF | VF | VF |
| HCA8005                                                                               | F                                                                                          | F | F  | VF | VF | VF |
| HCA8001                                                                               | F                                                                                          | F | F  | VF | VF | VF |
| HCA80015                                                                              | F                                                                                          | F | F  | F  | VF | VF |
| HCA8002                                                                               | F                                                                                          | F | F  | F  | VF | VF |
| HCA8003                                                                               | M                                                                                          | F | F  | F  | F  | F  |

| Deflector                                                                             |                                                                                          |   |   |   |   |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---|---|---|---|
|  DEF | <br>bar |   |   |   |   |
|                                                                                       | 1                                                                                        | 2 | 3 | 4 | 6 |
| DEF01                                                                                 | M                                                                                        | F | F | F | F |
| DEF015                                                                                | M                                                                                        | M | F | F | F |
| DEF02                                                                                 | M                                                                                        | F | F | F | F |
| DEF025                                                                                | M                                                                                        | F | F | F | F |
| DEF03                                                                                 | M                                                                                        | F | F | F | F |
| DEF04                                                                                 | M                                                                                        | F | F | F | F |
| DEF05                                                                                 | M                                                                                        | M | M | M | F |
| DEF06                                                                                 | M                                                                                        | M | M | M | M |
| DEF08                                                                                 | M                                                                                        | M | M | M | M |
| DEF10                                                                                 | C                                                                                        | M | M | M | M |

| Deflector 140                                                                             |                                                                                            |    |    |    |    |    |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----|----|----|----|----|
|  DEF 140 | <br>bar |    |    |    |    |    |
|                                                                                           | 1                                                                                          | 2  | 3  | 4  | 5  | 6  |
| DEF14001                                                                                  | M                                                                                          | F  | F  | F  | F  | F  |
| DEF140015                                                                                 | M                                                                                          | F  | F  | F  | F  | F  |
| DEF14002                                                                                  | M                                                                                          | F  | F  | F  | F  | F  |
| DEF140025                                                                                 | M                                                                                          | M  | F  | F  | F  | F  |
| DEF14003                                                                                  | M                                                                                          | M  | M  | M  | M  | M  |
| DEF14004                                                                                  | M                                                                                          | M  | M  | M  | M  | M  |
| DEF140075                                                                                 | C                                                                                          | C  | C  | C  | C  | C  |
| DEF14010                                                                                  | VC                                                                                         | VC | VC | VC | VC | VC |

| Boom Extension                                                                        |                                                                                            |    |    |    |    |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----|----|----|----|
|  BX | <br>bar |    |    |    |    |
|                                                                                       | 2                                                                                          | 3  | 4  | 5  | 6  |
| BX010                                                                                 | UC                                                                                         | UC | UC | XC | XC |
| BX020                                                                                 | UC                                                                                         | UC | UC | UC | XC |
| BX025                                                                                 | UC                                                                                         | UC | UC | UC | XC |
| BX045                                                                                 | UC                                                                                         | UC | UC | UC | UC |
| BX060                                                                                 | UC                                                                                         | UC | UC | UC | UC |
| BX080                                                                                 | UC                                                                                         | UC | UC | UC | UC |

| Air Off Center                                                                          |                                                                                              |    |    |    |    |    |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----|----|----|----|----|
|  AOC | <br>bar |    |    |    |    |    |
|                                                                                         | 1.5                                                                                          | 2  | 3  | 4  | 6  | 8  |
| AOC080015                                                                               | XC                                                                                           | VC | C  | C  | C  | C  |
| AOC08002                                                                                | UC                                                                                           | UC | XC | XC | VC | VC |
| AOC080025                                                                               | XC                                                                                           | VC | C  | C  | C  | C  |
| AOC08003                                                                                | UC                                                                                           | XC | XC | VC | VC | C  |
| AOC08004                                                                                | UC                                                                                           | XC | XC | XC | VC | VC |
| AOC08005                                                                                | UC                                                                                           | XC | XC | XC | VC | VC |

| Fullcone Ceramic 80°                                                                     |                                                                                            |   |   |   |   |    |    |    |    |    |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---|---|---|---|----|----|----|----|----|
|  FCC80 | <br>bar |   |   |   |   |    |    |    |    |    |
|                                                                                          | 1,5                                                                                        | 3 | 4 | 6 | 7 | 8  | 9  | 10 | 15 | 20 |
| FCC80015                                                                                 | F                                                                                          | F | F | F | F | VF | VF | VF | VF | VF |
| FCC8002                                                                                  | F                                                                                          | F | F | F | F | VF | VF | VF | VF | VF |
| FCC80025                                                                                 | M                                                                                          | F | F | F | F | F  | F  | F  | VF | VF |
| FCC8003                                                                                  | M                                                                                          | M | M | F | F | F  | F  | F  | VF | VF |
| FCC8004                                                                                  | M                                                                                          | M | M | M | M | F  | F  | F  | F  | F  |
| FCC8005                                                                                  | M                                                                                          | M | M | M | M | F  | F  | F  | F  | F  |

|  | DIMENSIONE DELLE GOCCE<br>DROP SIZE RATING<br>DIMENSIONES DE LAS GOTAS |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| VF                                                                                 | Molto fine-Very fine-Muy fina                                          |
| F                                                                                  | Fine-Fine-Fina                                                         |
| M                                                                                  | Media-Medium-Media                                                     |
| C                                                                                  | Grossa-Coarse-Gruesa                                                   |
| VC                                                                                 | Molto grossa-Very coarse-Muy gruesa                                    |
| XC                                                                                 | Estremamente grossa-Extremely coarse-Extremadamente gruesa             |
| UC                                                                                 | Ultra grossa-Ultra coarse-Ultra gruesa                                 |

Classificazione in accordo con lo standard ASABE S572.3 e la norma ISO25358

Classification according to ASABE S572.3 and ISO25358

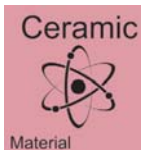
Clasificación según ASABE S572.3 e ISO25358

TABELLA DI RIFERIMENTO

REFERENCE TABLE

TABLA DE REFERENCIA

|    |                                          |  |  |  |  |  |
|-------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    | <b>AFC 80</b> Fan Air Ceramic            | CVI                                                                               | ---                                                                               | ---                                                                               | IDK - C                                                                            | CVI (ALBUZ)                                                                         |
|    | <b>AFC 110</b> Fan Air Ceramic           | CVI - AVI                                                                         | ---                                                                               | AIC - VK                                                                          | IDK - C                                                                            | CVI (ALBUZ)                                                                         |
|    | <b>AOC</b> Air Off Center                | ---                                                                               | ---                                                                               | AIUB                                                                              | IS                                                                                 | AIRMIX OC                                                                           |
|    | <b>ATC</b> Air Twin Ceramic              | AVI - TWIN<br>CVI - TWIN                                                          | ---                                                                               | ---                                                                               | IDKT                                                                               | ---                                                                                 |
|    | <b>ATP</b> Air Twin Plastic              | ---                                                                               | GUARDIAN AIR TWIN                                                                 | AITTJ60                                                                           | IDKT                                                                               | TURBO DROP                                                                          |
|    | <b>BX</b> Boom extension nozzle          | ---                                                                               | XT                                                                                | XP BOOMJET                                                                        | ---                                                                                | ---                                                                                 |
|    | <b>CFA</b> Compact Fan Air               | CVI - AVI                                                                         | ULD                                                                               | TTI - VP                                                                          | IDK                                                                                | AIRMIX FLAT FAN                                                                     |
|    | <b>CFA-T</b> Compact Fan Air-T           | ---                                                                               | GUARDIAN AIR                                                                      | ---                                                                               | ---                                                                                | ---                                                                                 |
|    | <b>CFA-U</b> Compact Fan Air Ultra       | ---                                                                               | ---                                                                               | ---                                                                               | IDKN                                                                               | ---                                                                                 |
|    | <b>DEF</b>                               | APM                                                                               | DT                                                                                | V - VP<br>TKT - VP                                                                | FT                                                                                 | DT                                                                                  |
|    | <b>NC DC</b> Disc + Core                 | DISC & CORE                                                                       | ---                                                                               | DISC & CORE                                                                       | ---                                                                                | ---                                                                                 |
|    | <b>EF</b> Evenfan                        | ---                                                                               | E                                                                                 | TP - EVS                                                                          | ES                                                                                 | ---                                                                                 |
|   | <b>FC</b> Fast Cap                       | FAST CAP AXI                                                                      | FAST CAP AXI (ALBUZ)                                                              | XRC VK<br>XRC VP<br>XRC VS                                                        | ---                                                                                | TIP CAP TCP<br>TIP CAP TCP                                                          |
|  | <b>FCC</b> Fullcone                      | ATF                                                                               | ---                                                                               | ---                                                                               | ---                                                                                | ---                                                                                 |
|  | <b>HC</b> Hollowcone                     | ---                                                                               | SWIRL TIP (LURMARK)                                                               | DISC - CORE                                                                       | ---                                                                                | TCHC                                                                                |
|  | <b>HCF</b> Fullcone                      | ---                                                                               | FCX (LURMARK)                                                                     | DISC - CORE                                                                       | ---                                                                                | ---                                                                                 |
|  | <b>HCA 40</b> Hollowcone Air 40°         | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                                | ---                                                                                 |
|  | <b>HCA 60</b> Hollowcone Air 60°         | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                                | ---                                                                                 |
|  | <b>HCA 80</b> Hollowcone Air 80°         | TVI                                                                               | ---                                                                               | AITX                                                                              | ITR                                                                                | TVI (ALBUZ)                                                                         |
|  | <b>HCC</b> Hollowcone Ceramic 80°        | ATI 80                                                                            | ---                                                                               | TX - VK                                                                           | ---                                                                                | ATR (ALBUZ)                                                                         |
|  | <b>HCI 40</b> Hollowcone ISO Ceramic 40° | ---                                                                               | ---                                                                               | ---                                                                               | ---                                                                                | ---                                                                                 |
|  | <b>HCI 60</b> Hollowcone ISO Ceramic 60° | ATI 60                                                                            | ---                                                                               | ---                                                                               | ---                                                                                | ATI 60 (ALBUZ)                                                                      |
|  | <b>HCI 80</b> Hollowcone ISO Ceramic 80° | ATI 80                                                                            | ---                                                                               | TX - VK                                                                           | TR                                                                                 | ATI 80 (ALBUZ)                                                                      |
|  | <b>HCS</b> Hollowcone Small              | ---                                                                               | HXC<br>HAF                                                                        | ---                                                                               | ---                                                                                | ---                                                                                 |
|  | <b>LD</b> Low Drift                      | ---                                                                               | LD                                                                                | DG - VP                                                                           | AD                                                                                 | ---                                                                                 |
|  | <b>LDC</b> Low Drift Ceramic             | ADI                                                                               | ---                                                                               | DG - VS                                                                           | AD - C                                                                             | ADI (ALBUZ)                                                                         |
|  | <b>PSP</b> Pentastream                   | ESI - EXA                                                                         | ESI (ALBUZ)                                                                       | SJ3 - SJ7                                                                         | FL                                                                                 | ESI - EXA (ALBUZ)                                                                   |
|  | <b>SF</b> Standard Fan                   | APE                                                                               | F                                                                                 | TP - VP                                                                           | ST                                                                                 | SPRAYMAX                                                                            |
|  | <b>SFA</b> Standard Fan Air              | CVI - AVI                                                                         | GUARDIAN AIR                                                                      | AI XR - VP                                                                        | ID                                                                                 | AIRMIX FLAT FAN                                                                     |
|  | <b>TFA</b> Twin Fan Air                  | ---                                                                               | GUARDIAN AIR TWIN                                                                 | AITTJ60                                                                           | IDKT                                                                               | TURBO DROP                                                                          |
|  | <b>TFLD</b> Twin Fan Low Drift           | ---                                                                               | TC2 - LD                                                                          | DGTJ60 - VS                                                                       | TWC + AD(x2)                                                                       | ---                                                                                 |
|  | <b>TFS</b> Twin Fan Standard             | ---                                                                               | TC2 - F                                                                           | TJ60 - VS                                                                         | DF                                                                                 | TC + SPRAYMAX                                                                       |
|  | <b>WR</b> Wide Range                     | ---                                                                               | WP                                                                                | XR - VP<br>XR - VS                                                                | LU                                                                                 | ---                                                                                 |
|  | <b>WRC</b> Wide Range Ceramic            | AXI                                                                               | TR                                                                                | XR - VK                                                                           | LU - C                                                                             | AXI (ALBUZ)                                                                         |



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# ASJ nozzle configurator

L'App ASJ nozzle configurator consente di selezionare facilmente l'ugello corretto per la vostra applicazione.

Inserendo semplicemente:

- la portata desiderata
- la velocità di lavoro
- la spaziatura tra gli ugelli

si otterrà una lista con caratteristiche tecniche degli ugelli più adatti per il vostro lavoro!

The ASJ nozzle configurator App will allow you to easily select the proper nozzle for your spraying application.

Simply typing:

- target rate
- work speed
- nozzles spacing

you will get a list with technical features of the most suitable nozzles for your work!!

La App ASJ nozzle configurator permite seleccionar fácilmente la boquilla correcta para vuestra aplicación.

Introduciendo simplemente:

- el caudal deseado
- la velocidad de trabajo
- los espacios entre las boquillas

se obtendrá una lista con las características técnicas de las boquillas más adecuadas para vuestro trabajo.



available for:



Phone



Tablet



Phone



Tablet



[www.asjnozzle.it/app/nozzle-configurator](http://www.asjnozzle.it/app/nozzle-configurator)

Riportiamo qui di seguito alcune formule e tabelle che possono risultare molto utili per un corretto trattamento.

#### Misura velocità di avanzamento

La velocità è un parametro fondamentale per il calcolo del volume distribuito (l/ha o GPA), la precisione del trattamento dipende anche dalla precisione con cui viene misurata. Se non si ha a disposizione un tachimetro preciso o se si desidera controllarne la precisione si può procedere nel seguente modo:

- Riempire la cisterna della macchina con circa mezzo serbatoio
- Misurare un tratto di 100 m sul terreno
- Percorrere questo tratto con la marcia e il numero di giri del motore (rpm) a cui si desidera eseguire il trattamento e rilevare il tempo di percorrenza
- Ripetere la prova più volte ed eseguire la media dei tempi di percorrenza
- Calcolare la velocità con la seguente formula:

$$V = 3,6 \frac{s}{t}$$

V = Velocità (km/h)  
s = Distanza percorsa (m)  
t = Tempo impiegato (secondi)

Oppure:

$$S = 88 \frac{d \cdot 60}{t}$$

S = Velocità (MPH)  
d = Distanza percorsa (ft)  
t = Tempo impiegato (seconds)

#### Calcolo portata e volume applicato

Prima di eseguire un trattamento è necessario scegliere un ugello in base al volume da distribuire e alla velocità di lavoro. Questa operazione normalmente è svolta con l'ausilio delle tabelle di portata degli ugelli, ma nel caso in cui si volesse calcolare l'esatta portata dell'ugello dati il volume da distribuire e la velocità si possono usare la seguenti formule:

Nel caso di utilizzo degli ugelli montati su barra da diserbo, la formula per calcolare il volume distribuito è la seguente:

Hereby you will find some formulas and charts, that can be very useful for an appropriate spraying.

#### How to calculate the forward speed

Speed is a basic datum to calculate the sprayed volume (liters/hectars or GPA). When it's not possible to have a speedometer (and when you want to check its precision), you can do the following:

- Fill half the tank
- Measure 100 mt on the field
- Ride the a.m. distance using gear position and RPM, that you require for the spraying treatment. Record the time it takes you.
- Repeat the previous point at least 5 times and calculate the average time it took you to ride 100 mt
- Apply the following formula:

$$V = 3,6 \frac{s}{t}$$

V = Speed (km/h)  
s = Distance (mt)  
t = Time (seconds)

or:

$$S = 88 \frac{d \cdot 60}{t}$$

S = Speed (MPH)  
d = Distance (ft)  
t = Time (seconds)

#### How to calculate delivery and sprayed volume

Before spraying you need to choose the correct nozzle, according to volume and speed. You can do this calculation with the help of several nozzle delivery charts, but if you want to know the exact delivery of the nozzle you are using, you can do the following:

If these nozzles are fitted to a crop spraying boom, the formula for calculating the sprayed volume is as follows:

En seguida se encuentran unas formulas y tablas que pueden ser muy utiles para una correcta pulverización.

#### Como medir la velocidad de avance

La velocidad es un dato fundamental para calcular el volumen pulverizado (l/ha o GPA) y la precisión de pulverización depende también de la precisión de medida de la velocidad. Cuando no tengan un taquímetro preciso (o quieran verificarla la precisión), hagan como sigue:

- llenen medio tanque
- medzcan una raya de campo de 100 metros
- recorran esta raya con la posición de marcha y el numero de revoluciones motor por minuto, con los cuales quieran pulverisar, y cronometren el tiempo de recorrida.
- repetan la prueba precedente unas veces y calculen el tiempo medio de recorrida.
- Calculen la velocidad como sigue:

$$V = 3,6 \frac{s}{t}$$

V = Velocidad  
s = Distancia recorrida  
t = Tiempo pasado (segundos)

o

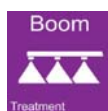
$$S = 88 \frac{d \cdot 60}{t}$$

S = Velocidad (MPH)  
d = Distancia recorrida (ft)  
t = Tiempo pasado (segundos)

#### Como medir el caudal y el volumen pulverizado

Antes de pulverisar, es necesario de escoger la boquilla correcta, según el volumen y la velocidad, que se quieran. Este cálculo se hace normalmente con el auxilio de la tablas de caudal de las boquillas, ma cuando se quiera saber el caudal exacto de la boquilla (conocendo el volumen de pulverización y la velocidad) se pueden hacer como sigue:

Si se utilizan las boquillas montadas en barra de pulverización, la fórmula para calcular el volumen distribuido es la siguiente:

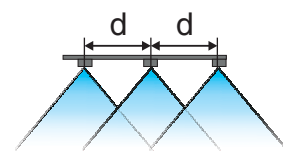


$$\text{Vol (l/ha)} = \frac{\text{l/min} \times 60000}{\text{km/h} \times d \text{ (cm)}}$$

l/min



km/h



Per calcolare il volume distribuito quando si utilizza un atomizzatore, si usa la seguente formula:

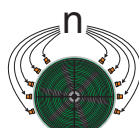
When an orchard sprayer is used, calculate the sprayed volume as follows:

Para calcular el volumen distribuido cuando se utiliza un atomizador, se utiliza la siguiente fórmula:

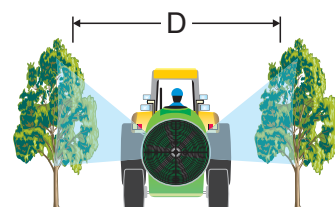


$$\text{Vol (l/ha)} = \frac{\text{l/min} \times n \times 600}{\text{km/h} \times D \text{ (m)}}$$

l/min



km/h



### Calcolo pressione di lavoro

Quando le tabelle di riferimento degli ugelli non riportano la portata che si vuole erogare (l/min), per individuare la nuova pressione di lavoro usare la seguente formula:

$$P1 = (q1 / q2)^2 \cdot P2$$

P1 = nuovo valore di pressione calcolato  
P2 = valore di pressione indicato nella tabella  
q1 = portata desiderata  
q2 = portata dell'ugello ricavata dalle tabelle

### Uso di soluzioni diverse dall'acqua

I valori riportati nelle tabelle degli ugelli sono ottenute utilizzando acqua. Se vengono utilizzati liquidi con peso specifico (densità) diverso da quello dell'acqua per conoscere la vera portata dell'ugello in esame è necessario moltiplicare i valori di portata ricavati dalla tabella per un fattore di conversione relativo alla densità del liquido in esame.

|                                                                          |        |      |      |      |   |      |      |      |      |      |      |
|--------------------------------------------------------------------------|--------|------|------|------|---|------|------|------|------|------|------|
| Densità<br>Density<br>Densidad                                           | kg/dm³ | 0,85 | 0,90 | 0,95 | 1 | 1,10 | 1,15 | 1,20 | 1,25 | 1,30 | 1,40 |
| Fattore di conversione<br>Conversion factor<br>Coeficiente de conversión |        | 1,08 | 1,05 | 1,03 | 1 | 0,95 | 0,93 | 0,91 | 0,89 | 0,88 | 0,85 |

Ovviamente da questo risulta che più un liquido è denso, maggiore sarà la pressione necessaria per ottenere lo stesso valore di portata.

### Perdita di carico (caduta di pressione)

È la differenza di pressione che si crea tra l'ingresso e l'uscita di un impianto idraulico al passaggio di una determinata quantità di fluido. Questa differenza è causata, oltre che dalla lunghezza delle tubazioni, da vari elementi normalmente inseriti nel circuito, come diramazioni, gomiti, filtri, valvole, variazioni di sezione, ecc...

In questo catalogo troviamo questo valore indicato nelle tabelle dei dati tecnici degli diversi articoli (valvole, filtri, ecc..)

### Dimensionamento elemento filtrante

L'efficacia del sistema filtrante dipende da un corretto dimensionamento delle reti filtro nei vari punti del circuito. Nella tabella a seguire, diamo un'indicazione della filtrazione minima richiesta.

| Ugello ISO<br>Nozzle ISO<br>Boquilla ISO | l/ha<br>8 km/h<br>3 bar  | Filtro - Filter - Filtro (mesh)      |                               |                              |
|------------------------------------------|--------------------------|--------------------------------------|-------------------------------|------------------------------|
|                                          |                          | Aspirazione<br>Suction<br>Aspiración | In linea<br>Lines<br>En línea | Sez. barra<br>Booms<br>Barra |
| ISO 11001 ÷ 11002                        | < 120 l/ha               | 50                                   | 80                            | 100                          |
| ISO 11003 ÷ 11006                        | > 120 l/ha<br>< 450 l/ha | 32                                   | 50                            | 80                           |
| ISO > 11008                              | > 450 l/ha               | 16                                   | 32                            | 50                           |

In questo modo si ottiene:

- un filtraggio adatto al trattamento
- limitazione delle perdite di carico
- tempi e costi di manutenzione ridotti

### How to calculate the required pressure

When the charts don't report the pressure value, which allows the nozzles to supply the required delivery, you can use the following formula to calculate it:

$$P1 = (q1 / q2)^2 \cdot P2$$

P1 = required pressure  
P2 = pressure on the chart  
Q1 = required delivery  
q2 = delivery on the chart

### Use of no-water based solutions

The reported values have been calculated using water. In case of liquids with a different specific weight (density), if you want to know the real delivery, you have to multiply the values on the charts with a conversion factor, as follows:

Obviously, the more you have density, the more you need pressure to reach the required delivery.

### Pressure drop

This is the pressure difference between the inlet and the outlet of a hydraulic plant. Beside of the pipe length, this drop is due to branches lines, curves, filters, valves, sections variations etc. In our catalogue we report the values indicated on the technical charts of our products.

### Filtration elements size

The filter efficacy depends on the positioning of the correct net size on the different points of hydraulic system. On the chart you can find the minimum required net size:

In this way you have:

- correct filtration
- low pressure drop
- low maintenance = low costs

### Como calcular la presión de trabajo

Cuando sobre las tablas no se indica la presión necesaria para conseguir el caudal requerido, para conocerla se puede usar la fórmula siguiente:

$$P1 = (q1 / q2)^2 \cdot P2$$

P1 = presión requerida  
P2 = presión indicada sobre la tabla  
q1 = caudal requerido  
q2 = caudal indicado sobre la tabla

### Uso de soluciones diferentes del agua

Los valores indicados sobre las tablas de las boquillas son conseguidos utilizando agua. Si se utilizan líquidos de peso específico diferente de lo del agua y se quiera conocer el caudal real de la boquilla, hay que multiplicar los valores de caudal de las tablas con un coeficiente de conversión:

Logicamente, tan mas el liquido es denso, cuanto mas hay que subir la presión para conseguir el caudal requerido.

### Caida de presión

Así se llama la diferencia entre la presión de entrada e la de salida de un equipo hidráulico. Esta diferencia se debe, además que del largo de las mangueras, a ramificaciones, codos, filtros, válvulas etc...

En este catalogo se encuentran los valores indicados en las tablas de datos técnicos de los diferentes artículos (válvulas, filtros, etc...).

### Dimension de los elementos filtrantes

La eficacia del sistema filtrante depende del posicionamiento de las dimensiones correctas de red en los diferentes puntos del sistema hidráulico. En la tabla se indica la filtración mínima correcta.

Eso permite de conseguir:

- filtración correcta
- limitación de las caídas de presión
- limitación de tiempo y de gastos de manutención

## CONVERSIONE UNITÀ DI MISURA

### Portata - Delivery - Caudal

| u.m        | English                         | Metric      |
|------------|---------------------------------|-------------|
| 1 l/min    | 0.26417 US GPM<br>0.22 Imp. GPM |             |
| 1 l/ha     | 0.1069 US GPA                   |             |
| 1 US GPM   | 0.833 Imp. GPM                  | 3.785 l/min |
| 1 Imp. GPM | 1.2 US GPM                      | 4.546 l/min |
| 1 GPA      |                                 | 9.346 l/ha  |

## MEASUREMENT CONVERSION

### Volume - Volume - Volumen

| u.m           | English          | Metric          |
|---------------|------------------|-----------------|
| 1 lt.         | 0.2199 Imp. gal. | 0.26417 US gal. |
| 1 US Gallon   | 0.833 Imp. gal.  | 3.785 lt.       |
| 1 Imp. Gallon | 1.2 US gal.      | 4.546 lt.       |

## CONVERSION UNIDADES DE MEDIDA

### Pressione - Pressure - Presión

| u.m   | English    | Metric                  |
|-------|------------|-------------------------|
| 1 bar | 14.503 psi | 0.1 Mpa                 |
| 1 Mpa | 145.03 psi | 10 bar                  |
| 1 psi |            | 0.069 bar<br>0.0069 Mpa |

## CONDIZIONI GENERALI DI VENDITA

- 1. CONCLUSIONE DEL CONTRATTO.** Il contratto di vendita s'intende concluso nel momento dell'accettazione da parte della venditrice dell'ordine di acquisto.  
Gli ordini pervenuti tramite ausiliari o intermediari del commercio s'intendono assunti "salvo approvazione della casa".  
L'esecuzione della fornitura da parte della venditrice costituisce accettazione tacita dell'ordine.  
Le offerte, verbali o scritte, provenienti dalla venditrice, non sono impegnative per la stessa.
- 2. MODIFICHE AL PRODOTTO.** Tra la data di conferma dell'ordine e quella di esecuzione, la venditrice si riserva il diritto di apportare, senza pregiudicarne l'utilizzo e la funzionalità iniziali, modificazioni che si ritengano necessarie al miglior funzionamento dei componenti e delle apparecchiature da fornire; ciò non costituisce motivo per il compratore di recedere dal contratto o di pretendere risarcimenti o indennizzi di sorta.
- 3. CONSEGNA DELLA MERCE.** La consegna della merce s'intende sempre franco stabilimento della venditrice, salvo contrarie pattuizioni scritte. I termini di consegna sono puramente indicativi e non impegnano la venditrice.  
L'eventuale ritardo nella consegna o l'eventuale esecuzione parziale della stessa non attribuiscono all'acquirente il diritto di risolvere il contratto né di pretendere risarcimenti per danni diretti o indiretti, né di ritardare, rispetto alle scadenze convenute, il pagamento delle forniture già fatturate.  
La venditrice si riserva la facoltà sia di prorogare i termini di consegna che di risolvere il contratto senza nulla dovere alla controparte in presenza di cause di forza maggiore.  
La venditrice si riserva, inoltre, la facoltà di sospendere in ogni momento la consegna della merce qualora abbia notizia che l'acquirente versi in condizioni patrimoniali tali da far dubitare della sua solvibilità.  
Analogamente si riserva la venditrice qualora l'acquirente si trovi in ritardo nei pagamenti, anche per precedenti forniture.  
La sospensione della consegna per i motivi di cui sopra può essere evitata o revocata solo se l'acquirente presta idonea garanzia; in caso contrario l'acquirente non potrà pretendere dalla venditrice alcun risarcimento di danni.
- 4. MINIMO FATTURABILE.** Il valore netto merce minimo fatturabile deve essere di Euro 100,00. Se d'importo inferiore verranno addebitati Euro 25,00 per oneri amministrativi.
- 5. SPEDIZIONI.** Le spedizioni sono eseguite sempre per conto, a spese e a rischio dell'acquirente (Resa FCA CENTALLO - Incoterms 2010 ICC) e, in mancanza di istruzioni da parte di quest'ultimo, col mezzo ritenuto più opportuno dalla venditrice.  
Per i paesi Extra-UE la merce è resa sdoganata all'esportazione secondo la condizione FCA CENTALLO - Incoterms 2010 ICC, con relativo addebito in fattura, escluse le spedizioni con corrieri espresso.  
**La merce viaggia ad esclusivo rischio dell'acquirente anche se pattuita e spedita franco destino.**  
Salvo espressa pattuizione contraria redatta per iscritto e sottoscritta da entrambi le parti, le spese di imballaggio, assicurazione, trasporto, giacenza ecc. sono a completo carico dell'acquirente.  
La merce viene assicurata dalla venditrice soltanto dietro tempestiva richiesta scritta dell'acquirente che dovrà assumersene le spese, indicare le condizioni di massima dell'assicurazione ed esonerare la venditrice da ogni responsabilità.
- 6. GARANZIA.** La merce venduta è coperta da garanzia generica di buona qualità dei materiali, di solidità di costruzione e di regolarità di funzionamento per il periodo di dodici mesi dalla data di consegna.  
Durante il periodo di garanzia la venditrice si impegna alla sostituzione gratuita dei pezzi che, a suo insindacabile giudizio, vengano ritenuti difettosi, purché i vizi o difetti non siano ricollegabili ad un cattivo uso o conservazione del prodotto o ad un impiego dello stesso non razionale, appropriato e conforme alle istruzioni tecniche fornite dalla venditrice.  
Sono altresì esclusi dalla garanzia i prodotti modificati, riparati, montati o manomessi dall'acquirente o da terzi.  
Le sostituzioni avverranno franco stabilimento venditrice e le spese di spedizione e ritorno saranno a carico dell'acquirente.  
Il costo della manodopera necessaria per la sostituzione dei pezzi ritenuti difettosi è a carico dell'acquirente.  
La risoluzione del contratto e l'eventuale risarcimento del danno non potranno essere richiesti dall'acquirente se non in caso di colpa grave da provarsi dall'acquirente stesso.  
L'acquirente decade dal diritto di garanzia allorché non rispetti i modi e i tempi di pagamento pattuiti.
- 7. RECLAMI E RESI.** L'acquirente ha l'obbligo di controllare la merce alla consegna. Eventuali reclami devono giungere entro 8 giorni. ASJ comunica al cliente la presa in carico del reclamo entro 5 giorni lavorativi dalla ricezione. I resi sono possibili solo previa autorizzazione scritta del fornitore **con addebito del 20%** per spese di immagazzinaggio accreditabili dopo il controllo del materiale reso.
- 8. DENUNCIA DEI VIZI DELLA MERCE.** Gli acquirenti e gli utilizzatori dei prodotti ASJ hanno la responsabilità esclusiva di determinare l'idoneità e l'adeguatezza dei prodotti medesimi, per le applicazioni per cui sono usati.  
La denuncia dei vizi o difetti della merce dovrà essere fatta entro otto giorni dal ricevimento della stessa ovvero dalla loro scoperta per i vizi occulti in forma scritta, mediante lettera raccomandata.  
Nessun reclamo potrà essere fatto valere, neppure in via d'eccezione, in sede giudiziaria se non avrà avuto luogo il regolare pagamento della merce alla quale il reclamo si riferisce.  
Eventuali reclami riguardanti una singola consegna di merce non esonerano l'acquirente dall'obbligo di ritirare la restante quantità di merce entro i limiti dell'ordinazione.
- 9. PREZZI.** Salvo pattuizioni contrarie, si applicano i prezzi di listino in vigore al momento della consegna o spedizione della merce e i prezzi stessi s'intendono per contanti e per merce resa franco stabilimento venditrice.  
La venditrice si riserva comunque il diritto di modificare in qualsiasi momento i prezzi accettati, in caso di variazione del costo di costruzione non dipendenti dalla sua volontà.

## GENERAL SALES CONDITIONS

- 1. CONTRACT CONCLUSION.** The sales contract is understood to be concluded when the vendor accepts the purchase order.  
The orders received through trade auxiliaries or intermediaries are understood as being assumed "except for approval by the main office".  
Execution of the supply by the vendor is considered as tacit acceptance of the order.  
The offers, verbal or written, coming from the vendor, are not binding for said vendor.
- 2. PRODUCT MODIFICATIONS.** Between the order confirmation date and the execution date, the vendor reserves the right to make changes, without affecting the use and initial functions, that are deemed necessary for the best operation of the parts and equipment to be supplied; this does not constitute a reason for the buyer to withdraw from the contract or to claim compensations or reimbursements of any kind.
- 3. DELIVERY OF GOODS.** Delivery of goods is always considered to be free vendor's works, unless other written agreements are reached. The delivery terms are merely indicative and are not binding for the vendor.  
Any delay in delivery or eventual partial execution of such delivery will not give the buyer the right to resolve the contract nor to claim compensation for direct or indirect damages, nor to delay, with respect to the agreed upon deadlines, the payment of the supplies already invoiced.  
The vendor reserves the right to extend the delivery periods and to resolve the contract without owing anything to the other party due to causes of force majeure.  
In addition, the vendor reserves the right to suspend the delivery of the goods at any time if information is received indicating that the buyer is in a financial position that would create any doubts about his solvency. The vendor reserves a similar right if the buyer has delayed the payments, also for previous supplies.  
The suspension of the delivery for the reasons described above can be avoided or revoked only if the buyer provides a suitable security; if not, the buyer cannot claim any compensation for damages from the vendor.
- 4. MINIM. NET AMOUNT.** The minim. net amount each invoice Euro 100,00. For lower amount we are forced to add Euro 25,00 to management costs.
- 5. SHIPMENTS.** The shipments are always carried out for, at the expense and risk of the buyer (FCA CENTALLO - Incoterms 2010 ICC) and, if no instructions are provided by said buyer, with the means considered most appropriate by the vendor.  
For the Extra-EU countries the goods is delivered already cleared with FCA CENTALLO - Incoterms 2010 ICC, adding charges on the invoice, except for the shipments with Express Courier.  
**The goods travel at the exclusive risk of the buyer even if agreed and shipped carriage free.**  
Unless otherwise agreed upon in writing and signed by both parties, the buyer will be responsible for all for packing, insurance, transport, stock expenses, etc.  
The goods are insured by the vendor only when timely requested in writing by the buyer who shall bear the expenses, indicate the general insurance conditions and exonerate the vendor from all responsibilities.
- 6. WARRANTY.** The goods sold are covered by a general warranty that ensures the good quality of the materials, solid construction and regular operation for twelve months from the date of delivery.  
During the warranty period, the vendor pledges to replace, free of charge, the parts which, in his unquestionable judgement, are considered defective, provided that the flaws and defects cannot be attributed to poor use or maintenance of the product or an unreasonable, inappropriate and unsuitable use of such a product with respect to the technical instructions supplied by the vendor.  
The warranty also excludes the products that are modified, repaired, mounted or tampered with by the buyer or by third parties.  
The replacements will be made free vendor's works and the buyer will be responsible for all shipping and return expenses.  
The buyer will be responsible for the costs of the labour needed to replace the parts considered defective. The resolution of the contract and any compensation for damage cannot be claimed by the buyer except for serious fault to be proven by said buyer.  
The warranty will no longer be extended to the buyer if he does not respect the agreed upon payment procedures and deadlines.
- 7. CLAIMS AND RETURNS.** The buyer must check the goods at arrival. Possible claims must reach the vendor within 8 days. The claim will be followed up within 5 working days from its receipt. Returns are possible only after previous written approval of the vendor **with 20% charge** for re-stocking costs refundable after checking the goods.
- 8. REPORTING DEFECTS IN GOODS.** Purchasers and users of ASJ products have the sole responsibility for determining the fitness and suitability of said products for the applications for which they are used.  
The claim for flaws or defects in the goods shall be submitted within eight days from when such goods are received, or from when hidden defects are discovered, in writing, by means of a registered letter.  
No claim can be made, nor as an exception, in a court of law if the goods for which the claim is submitted have not been regularly paid.  
Any claims concerning a single delivery of goods will not exonerate the buyer from his obligation to pick-up the remaining quantity of goods within the limits of the order.
- 9. PRICES.** Unless otherwise agreed, the list prices in effect at the time of delivery or shipment of the goods will be applied and the prices are understood to refer to cash and for goods delivered free vendor works. In any case, the vendor reserves the right to change the accepted prices at any time, for the case involving a variation in the construction cost for which he has no control.

## CONDICIONES GENERALES DE VENTA

- 1. CELEBRACIÓN DEL CONTRATO.** El contrato de venta se considera celebrado en el momento de la aceptación del pedido de compra por parte de la empresa vendedora.  
Los pedidos presentados mediante auxiliares o intermediarios del comercio se consideran aceptados "salvo aprobación de la empresa".  
La ejecución del suministro por parte de la empresa vendedora constituye aceptación tácita del pedido.  
Las ofertas, verbales o escritas procedentes de la empresa vendedora, no son vinculantes para la misma.
- 2. MODIFICACIONES AL PRODUCTO.** Entre la fecha de confirmación del pedido y la de ejecución, la empresa vendedora se reserva el derecho a realizar, sin perjudicar su uso y sus funciones iniciales, modificaciones que se consideren necesarias para mejorar el funcionamiento de los componentes y de los equipos por suministrar; esto no constituye motivo para el comprador de rescindir el contrato o de pretender resarcimientos o indemnizaciones de cualquier tipo.
- 3. ENTREGA DE LA MERCANCÍA.** La entrega de la mercancía se considera siempre franco planta de la empresa vendedora, salvo otros acuerdos por escritos.  
Los plazos de entrega son meramente indicativos y no vinculan a la empresa vendedora.  
El eventual retraso en la entrega o la eventual ejecución parcial de la misma no atribuyen al comprador el derecho a rescindir el contrato ni a pretender resarcimientos por daños directos o indirectos, ni a atrasarse, respecto a los plazos acordados, en el pago de los suministros ya facturados.  
La empresa vendedora se reserva la facultad de prorrogar los plazos de entrega y de rescindir el contrato sin deberle nada a la controparte en caso de causas de fuerza mayor.  
La empresa vendedora se reserva, además, la facultad de suspender en cualquier momento la entrega de la mercancía si tomara conocimiento de que las condiciones patrimoniales del comprador pusieran en duda de su solvencia.  
La misma facultad se reserva a la empresa vendedora en caso que el comprador se retrase en los pagos, incluso para suministros anteriores.  
La suspensión de la entrega por alguno de los motivos antes mencionados se puede evitar o revocar sólo si el comprador presenta la garantía apropiada; de lo contrario el comprador no podrá exigir a la empresa vendedora ningún resarcimiento por daños.
- 4. VALOR MINIMO NETO POR FACTURA.** El valor mínimo neto por factura tiene que ser Euro 100,00. Si menor tenemos que facturar Euro 25,00 como gastos de administración.
- 5. ENVÍOS.** Los envíos son realizados siempre por cuenta, bajo la responsabilidad y con gastos a cargo del comprador (termino FCA CENTALLO - Incoterms 2010 ICC) y, si el mismo no brinda las instrucciones necesarias para el envío, los envíos serán realizados con el medio que la empresa vendedora considere conveniente.  
Por naciones Extra-EU la mercadería viajará ya aclaranzada con condición FCA CENTALLO - Incoterms 2010 ICC, con relativos gastos en factura, excepto por los despachos con Express Courier.  
**La mercancía viaja a riesgo exclusivo del comprador, incluso si fuera pactada y enviada franco destino.**  
Salvo otro acuerdo expreso, redactado por escrito y firmado por ambas partes, los gastos de embalaje, seguro, transporte, almacenamiento, etc. están completamente a cargo del comprador.  
La mercancía es asegurada por la empresa vendedora sólo tras solicitud oportuna por escrito presentada por el comprador, cuyos gastos estarán a su cargo y deberá indicar las condiciones generales del seguro y exonerar a la empresa vendedora de toda responsabilidad.
- 6. GARANTÍA.** La mercancía vendida está cubierta por garantía de buena calidad de los materiales, de solidez de fabricación y de regularidad de funcionamiento por el periodo de doce meses a partir de la fecha de entrega.  
Durante el periodo de garantía la empresa vendedora se compromete a sustituir de forma gratuita las piezas que, según su incuestionable criterio, se consideren defectuosas, siempre que los vicios o defectos no estén vinculados a un mal uso o mala conservación del producto o a un uso no racional, inapropiado y no conforme a las instrucciones técnicas provistas por la empresa vendedora.  
También están excluidos de la garantía los productos modificados, reparados, montados o adulterados por el comprador o por terceros.  
Las sustituciones se realizarán franco planta de la empresa vendedora y los gastos de envío y retorno estarán a cargo del comprador.  
El coste de la mano de obra necesaria para la sustitución de las piezas consideradas defectuosas está a cargo del comprador.  
La rescisión del contrato y el eventual resarcimiento del daño no podrán ser solicitados al comprador, salvo en caso de culpa grave la cual deberá ser probada por el mismo comprador.  
El comprador pierde el derecho a la garantía en caso que no respete los modos y los tiempos de pago acordados.
- 7. RECLAMOS Y DEVOLUCIONES.** El comprador tiene la obligación de controlar la mercancía en el momento de la entrega. Eventuales reclamos deben ser recibidos dentro de los 8 días. ASJ comunica al cliente la aceptación del reclamo dentro de los 5 días laborales posteriores a la recepción del mismo. Las devoluciones son posibles sólo previa autorización por escrito del proveedor **con carga del 20%** para gastos de almacenamiento, dicho valor será acreditado después del control del material devuelto.
- 8. DENUNCIA DE VICIOS DE LA MERCANCÍA.** Los compradores y los usuarios de los productos ASJ tienen la responsabilidad exclusiva de determinar la idoneidad y la adecuación de los productos mismos, para las aplicaciones para las cuales son usadas. La denuncia por vicios o defectos de la mercancía se deberá realizar dentro de los ocho días de la recepción de la misma o bien del descubrimiento de los vicios ocultos, la misma se deberá realizar en forma escrita, mediante carta certificada.  
Ningún reclamo tendrá validez, ni siquiera como excepción, en sede judicial en caso que no se hubiera realizado el pago regular de la mercancía a la cual el reclamo se refiere.  
Eventuales reclamos inherentes a cada una de las entregas de la mercancía no exonerarán al comprador de la obligación de retirar la restante cantidad de mercancía dentro de los límites determinados en el pedido.
- 9. PRECIOS.** Salvo acuerdos contrarios, se aplican los precios de la lista de precios vigente en el momento de la entrega o envío de la mercancía, y dichos precios se consideran en efectivo para la mercancía entregada franco planta de la empresa vendedora.  
De todos modos, la empresa vendedora se reserva el derecho a modificar en cualquier momento los precios aceptados, en caso de variación del coste de fabricación sin que dependa de su voluntad.

- 10. PAGAMENTI.** I pagamenti si considerano liberatori solo se effettuati nella sede della venditrice, alle scadenze ed alle condizioni indicate nella fattura. L'accettazione di pagamento eseguiti in luoghi diversi non costituisce deroga al suddetto principio.
- Le spese d'incasso si intendono a carico dell'acquirente.
- Il mancato pagamento di una singola rata o di una singola fattura scaduta, o, comunque, il parziale inadempimento nei pagamenti sarà ritenuta condizione sufficiente perché il debitore decada dal beneficio del termine; in questo caso la venditrice si riserva il diritto di richiedere immediatamente l'integrale pagamento del suo credito scaduto od in scadenza.
- L'inadempienza totale o parziale da parte dell'acquirente attribuisce comunque alla venditrice sia la facoltà di risolvere i contratti in corso e chiedere il risarcimento dei danni subiti, sia il diritto di risolvere tutti gli altri contratti stipulati con lo stesso acquirente, ma la cui esecuzione non ha ancora avuto luogo.
- Il pagamento del corrispettivo è senz'altro dovuto nel caso in cui le merci ordinate e messe a disposizione dell'acquirente presso la sede della venditrice non vengano per qualsiasi motivo da esso ritirate.
- L'eventuale acconto versato verrà acquisito a titolo di indennizzo, salvo richiesta di maggiori danni.
- 11. INTERESSI DI MORA.** In caso di mancato o ritardato pagamento del prezzo pattuito o di parte di esso e senza che occorran particolari comunicazioni al riguardo, decorreranno automaticamente dalle scadenze determinate nelle condizioni particolari di vendita, gli interessi moratori a favore della venditrice nella misura del cinque per cento in più rispetto al tasso ufficiale di sconto in vigore al momento del mancato o ritardato pagamento totale o parziale.
- 12. BREVETTI.** La venditrice non è responsabile per spese o danni qualsiasi subiti dall'acquirente, derivanti da azioni legali o procedimenti nei confronti del compratore, basati su reclami relativi al fatto che: (a) l'uso di un prodotto, o parte di esso, fornito alle presenti condizioni, in combinazione a prodotti non forniti dalla venditrice o (b) un processo di fabbricazione o altro processo per cui si utilizza un prodotto o qualsiasi parte di esso, fornito alle presenti condizioni, costituiscono un'infrazione diretta o indiretta di qualsiasi brevetto o marchio.
- L'acquirente salverà la venditrice da qualsiasi spesa o perdita causata da infrazione di brevetti o marchi depositati derivanti dal fatto che la venditrice ha adattato il suo disegno in base a specifiche o istruzioni dell'acquirente.
- 13. FORO COMPETENTE.** Per ogni controversia sarà competente il Foro di Cuneo.
- 14. VALIDITÀ ED ACCETTAZIONE.** Le presenti condizioni sono da ritenersi valide ed applicate fino ad emissione ed invio all'acquirente di successiva revisione; si riterranno inoltre accettate anche senza la firma dell'acquirente dopo trenta giorni dalla data di spedizione all'acquirente.

- 10. PAYMENTS.** The payments are considered as released only if made at the vendor's offices, at the deadlines and under the conditions indicated in the invoice. Acceptance of payments made in different locations does not constitute a waiver of the aforementioned principle.
- The buyer will be responsible for any collection expenses.
- A default in payment of a single instalment or of a single overdue invoice or, in any case, the partial non-compliance in payments will be considered sufficient cause for the debtor to lose the benefit of the term; in this case, the vendor reserves the right to request immediate and full payment of his overdue or falling due credit.
- In any event, the total or partial default by the buyer gives the vendor the right to resolve the contracts in progress and claim compensation for the damages incurred in addition to the right to resolve all the other contracts stipulated with the same buyer, but which have not yet been executed.
- The payment of the fee is without any doubt owed for the case in which the goods ordered and made available to the buyer at the vendor's works are not picked up for any reason.
- Any down payment paid will be collected as reimbursement, without affecting the claim for greater damages.
- 11. OVERDUE INTEREST.** For the case involving the lack or delayed payment of the agreed upon price or part of it and without any special communications to such regard being required, overdue interest in favour of the vendor will be owed automatically from the expiration specified in the special sales conditions, determined as five percent more than the official discount rate in effect at the time of lack or delayed total or partial payment.
- 12. PATENTS.** The vendor will not be responsible for any expenses or damage incurred by the buyer, deriving from law suits or legal proceedings against the buyer, based on claims relative to the fact that: (a) the use of a product, or part of it, supplied under these conditions, together with products not supplied by the vendor or (b) a manufacturing process or the process for which a product or any part of it is used, supplied under these conditions, constitute a direct or indirect violation of any patent or trademark.
- The buyer will safeguard the vendor against any expense or loss caused by a violation of registered patents or trademarks deriving from the fact that the vendor has adapted his design based on specifications or buyer instructions.
- 13. COMPETENT COURT.** The Court of Cuneo will have legal jurisdiction for any and all disputes.
- 14. VALIDITY AND ACCEPTANCE.** These conditions are to be considered valid and applied up to the issue and sending to the buyer of a subsequent version. In addition, they will be considered accepted even without the buyer's signature thirty days after the date they are sent to the buyer.

- 10. PAGOS.** Los pagos se consideran liberatorios sólo si son realizados en la sede de la empresa vendedora, en los plazos y en las condiciones indicadas en la factura. La aceptación de pagos realizados en otros lugares no deroga el principio antes mencionado.
- Los gastos de cobro se consideran a cargo del comprador.
- La falta de pago de una sola cuota o de una sola factura vencida o, en cualquier caso, el incumplimiento parcial de los pagos se considerará condición suficiente para que el deudor pierda el beneficio del plazo; en este caso la empresa vendedora se reserva el derecho a solicitar de inmediato el pago total de su crédito vencido o en vencimiento.
- El incumplimiento total o parcial por parte del comprador atribuye, de todos modos, a la empresa vendedora la facultad de rescindir los contratos existentes y solicitar el resarcimiento por daños sufridos, como así también el derecho a rescindir todos los otros contratos celebrados con el mismo comprador, los cuales aún no han sido ejecutados.
- La retribución se debe pagar sin lugar a dudas en caso en que las mercancías pedidas y puestas a disposición del comprador en la sede de la empresa vendedora, por cualquier motivo, no sean retiradas por el mismo.
- El eventual pago desembolsado será adquirido en concepto de indemnización, salvo solicitud de resarcimiento por daños mayores.
- 11. INTERESES POR MORA.** En caso de incumplimiento o retraso en el pago del precio acordado o de parte del mismo y sin que sean necesarias comunicaciones particulares al respecto, serán efectivos automáticamente a partir de los plazos determinados en las condiciones particulares de venta, los intereses moratorios a favor de la empresa vendedora en la medida del cinco por ciento más respecto a la tasa oficial de descuento vigente en el momento del incumplimiento o retraso del pago total o parcial.
- 12. PATENTES.** La vendedora no es responsable por gastos o daños sufridos por el comprador, derivados de acciones legales o procedimientos del comprador, basados en reclamos correspondientes al hecho que: (a) el uso de un producto, o de parte del mismo, suministrado según las presentes condiciones, combinado con productos no suministrados por la empresa vendedora o (b) un proceso de fabricación u otro proceso para el cual se utiliza un producto o cualquier parte del mismo, suministrado según las presentes condiciones, constituyan una infracción directa o indirecta de cualquier patente o marca.
- El comprador protegerá a la empresa vendedora de cualquier gasto o pérdida causada por infracción de patentes o marcas registradas que deriven del hecho que la empresa vendedora ha adaptado su diseño en base a especificaciones o instrucciones del comprador.
- 13. FORO COMPETENTE.** Ante cualquier conflicto será competente el Foro de Cuneo.
- 14. VALIDEZ Y ACEPTACIÓN.** Las presentes condiciones se deben considerar válidas y aplicadas hasta la emisión y el envío al comprador de la sucesiva revisión; además se considerarán aceptadas incluso sin la firma del comprador transcurridos treinta días de la fecha de envío al comprador.

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7,569 Longitude

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