PLASTICA ALFA
INNOVATION & WATER TECHNOLOGIES

# FILTRI A RETE
## Screen Filters

Technical Catalogue



www.plasticalfa.it

## APPLICAZIONI

1. Landscaping e agricoltura
2. Eliminare solidi inorganici in sospensione e piccole quantità di sostanze organiche
3. Proteggere il sistema di irrigazione da intasamento e abrasione

## APPLICATION

1. Landscaping and agriculture: Filtration of water for irrigation and recirculation
2. Eliminate suspended inorganic solids and small quantities of organic substances
3. Protection of irrigation systems from clogging and/or abrasion

## INSTALLAZIONE

1.Il filtro può essere installato sia in verticale che in orizzontale.
2. Verificare la corretta direzione di entrata/uscita seguendo le frecce poste sul corpo del filtro.
3. Se la pressione non è sufficientemente sotto controllo, è necessario installare una valvola di sovrappressione prima del filtro.
4. Il diametro del tubo collegato al filtro deve essere maggiore o uguale al diametro d'ingresso del filtro.
5. Per consentire una corretta manutenzione, all'ingresso e all'uscita del filtro possono essere installate valvole di servizio.
6. Usare il teflon sui filetti. Non utilizzare sigillanti liquidi.
7. Per collegare il filtro alla linea, avvitare il filetto del filtro evitando di forzare l'avvitamento.
8. Per avvitare il coperchio del filtro utilizzare l'apposita chiave (non usare chiavi metalliche che possono deformare il coperchio).
9. Installare una linea di bypass se è necessaria una fornitura costante di acqua durante la manutenzione.
10. Quando si installa più di un filtro, lasciare lo spazio sufficiente tra le unità per una facile manutenzione.

## INSTALLATION

1. Filter can be installed either vertically or horizontally.
2. Ensure correct inlet/outlet direction by the arrows on the filter body
3. A pressure release valve must be installed before the filter if the pressure is not sufficiently under control.
4. The diameter of the pipe from the pressure source to the filter must be larger or equal to the filter inlet.
5. Inlet and outlet service valves can be installed to allow proper maintenance.
6. Use Teflon tape on filter threads - Do Not Use Pipe Dope.
7. When connecting filter to pipe, do not over tighten.
8. Tighten the filter cap only with the proper key or similar (do not use metal key that can compromise the shape of the cap).
9. Install bypass line if a constant supply of water is needed during maintenance
10. When installing more than one filter, allow enough room between the units for easier maintenance.

## MANUTENZIONE E PULIZIA

SMONTAGGIO
1. Assicurarsi che la linea non sia alimentata e che non ci sia pressione nella tubazione.
2. Svitare il coperchio dal corpo del filtro.
3. Estrarre la cartuccia.

PULIZIA
Pulire la cartuccia con acqua pulita e un pennello in fibra per rimuovere lo sporco o sciacquare con acqua in pressione. (NON UTILIZZARE SPAZZOLE D'ACCIAIO).

RIASSEMBLAGGIO
1. Lubrificare le guarnizioni con grasso non-aggressivo.
2. Inserire la cartuccia e accertarsi che sia posizionata correttamente.
3. Riposizionare il coperchio.
4. Ruotare il coperchio in senso orario, serrare con l'apposita chiave evitando di forzare l'avvitamento.

## MAINTENANCE AND CLEANING

DISMANTLING
1. Ensure system is turned off and no pressure remains in the pipeline.
2. Unscrew cover from the filter body.
3. Pull out the cartridge.

CLEANING
Clean the screen cartridge with clean water and a fiber brush to remove particles or flush with pressurized water. (NEVER USE A STEEL WIRE BRUSH).

ASSEMBLY
1. Lubricate the rubber rings with non-aggressive grease.
2. Insert the cartridge and make sure it is seated correctly.
3. Replace cap.
4. Turn the cap clockwise, tighten with the proper key and do not over tighten.

## UTILIZZO A BASSE TEMPERATURE

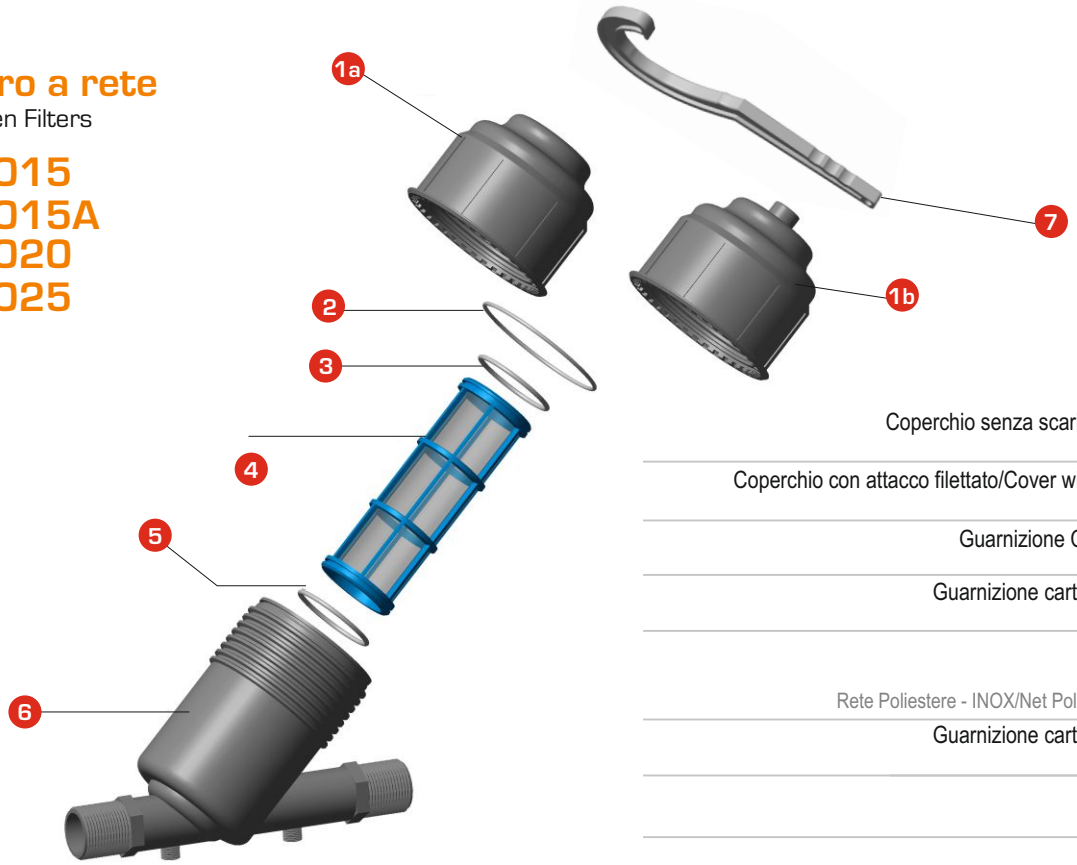
Scaricare tutto l'acqua dal filtro per evitare la rottura a causa di congelamento.

## WINTERIZATION

Drain all the water from the filter to avoid cracking due to freezing.

# Filtro a rete
Screen Filters

## 20015
## 20015A
## 20020
## 20025

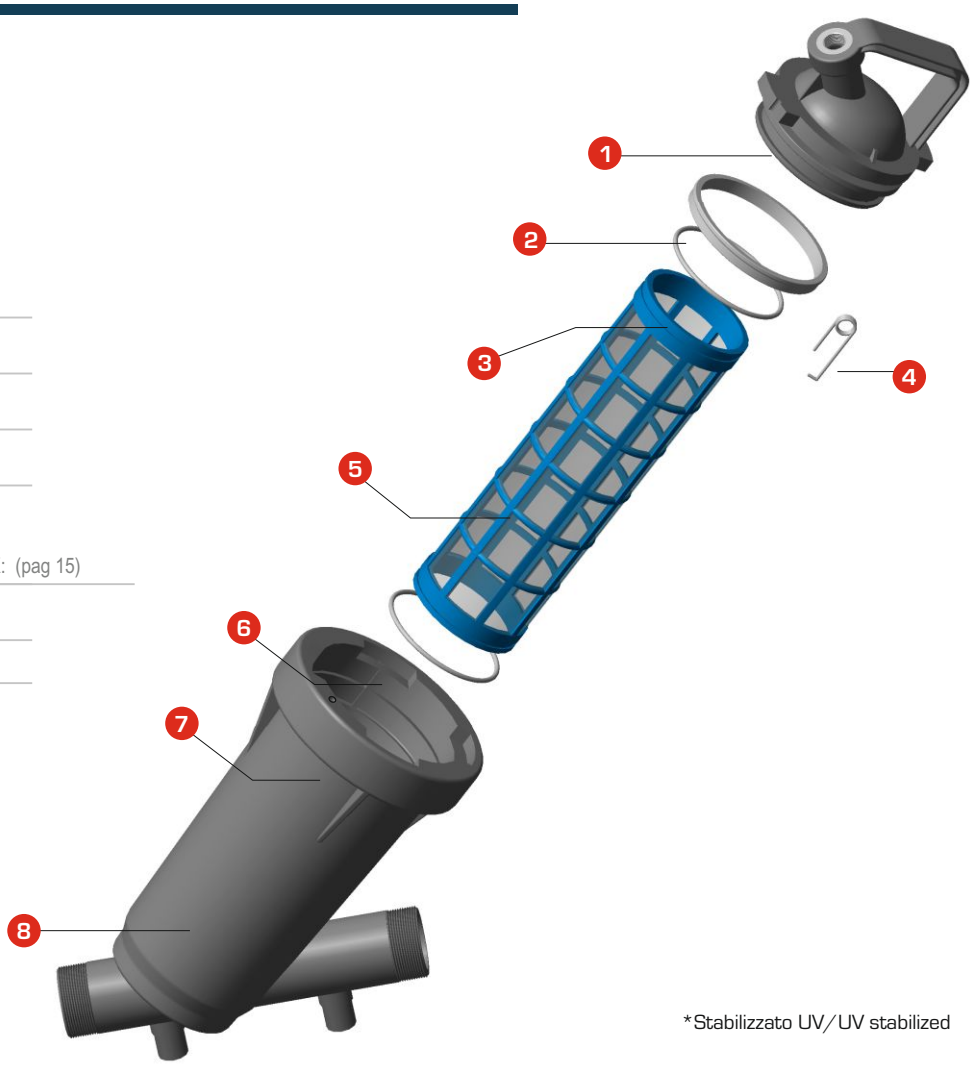



| | | |
|---|---|---|
| Coperchio senza scarico/Cover without bleed<br>PP Nero/Black* | 1a |
| Coperchio con attacco filettato/Cover with threaded connection<br>PP Nero/Black* | 1b |
| Guarnizione Coperchio/O' ring Cover<br>NBR | 2 |
| Guarnizione cartuccia/Cartridge O' Ring<br>NBR | 3 |
| Cartuccia/Cartridge<br>Struttura/structure: PP ●<br>Rete Poliestere - INOX/Net Polyester - INOX: (pag 15) ● | 4 |
| Guarnizione cartuccia/Cartridge O' Ring<br>NBR | 5 |
| Corpo/Body<br>PP Nero/Black* | 6 |
| Chiave /Key<br>PAFV nera /Black PAGF* | 7 |

# Filtro a rete
Screen Filters

## 20920

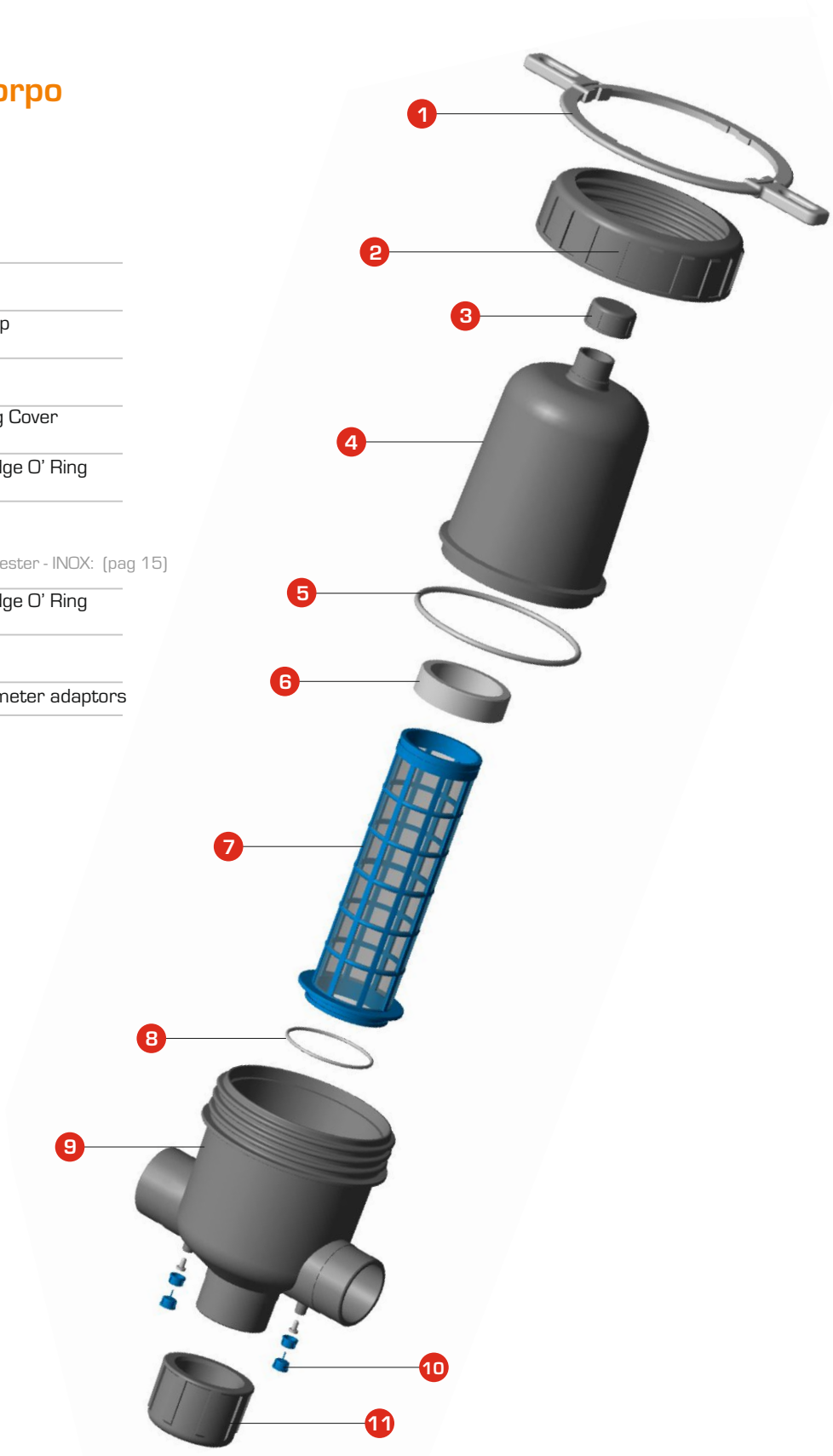
| | |
|---|---|
| 1 | Coperchio con inserto in ottone cromato<br>Cover with brass chromium plated insert<br>ABS Nero/Black ABS* |
| 2 | Guarnizione Coperchio/O' ring Cover<br>NBR |
| 3 | Guarnizione cartuccia/Cartridge O' Ring<br>NBR |
| 4 | Molla di chiusura/Lockpin<br>Acciaio inox/Stainless Steel |
| 5 | Cartuccia/Cartridge<br>● Struttura/structure: PP<br>● Rete Poliestere - INOX/Net Polyester - INOX: (pag 15) |
| 6 | Guarnizione cartuccia/Cartridge O' Ring<br>NBR |
| 7 | Chiusura/Lock |
| 8 | Corpo/Body<br>PP Nero/Black* |




*Stabilizzato UV/UV stabilized

# 20540
## Filtro a rete monocorpo
Screen Filters single body

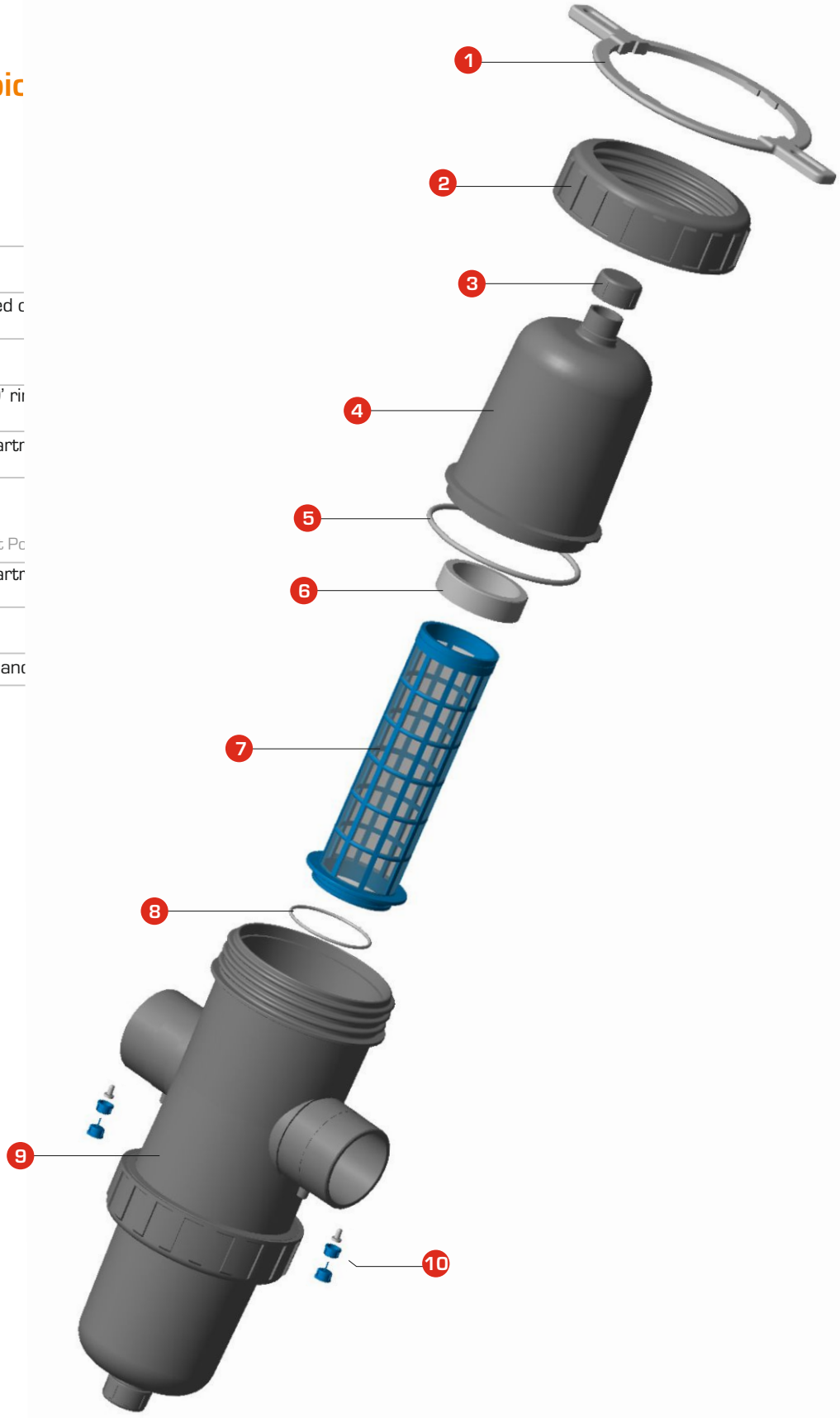
| | |
|---|---|
| 1 | Chiave/Key<br>PAFV nera /Black PAGF* |
| 2 | Ghiera/Nut<br>PAFV nera /Black PAGF* |
| 3 | Calotta Filettata/Threaded cap<br>PP nero /Black PP* |
| 4 | Coperchio/Cover<br>PPFV nero /Black PPGF* |
| 5 | Guarnizione Coperchio/O' ring Cover<br>NBR |
| 6 | Guarnizione cartuccia/Cartridge O' Ring<br>NBR |
| 7 | Cartuccia/Cartridge<br>• Struttura/structure: PP<br>• Rete Poliestere - INOX/Net Polyester - INOX: (pag 15) |
| 8 | Guarnizione cartuccia/Cartridge O' Ring<br>NBR |
| 9 | Corpo/Body<br>PPFV nero /Black PPGF* |
| 10 | Adattatori manometri/Manometer adaptors |
| 11 | Calotta/Cap<br>PP nero /Black PP* |




*Stabilizzato UV/UV stabilized

# 20545
# Filtro a rete doppic
Screen Filters Twin body

| | |
|---|---|
| 1 | Chiave/Key<br>PAFV nera /Black PAGF* |
| 2 | Ghiera/Nut<br>PAFV nera /Black PAGF* |
| 3 | Calotta Filettata/Threaded c<br>PP nero /Black PP* |
| 4 | Coperchio/Cover<br>PPFV nero /Black PPGF* |
| 5 | Guarnizione Coperchio/O' ri<br>NBR |
| 6 | Guarnizione cartuccia/Cartr<br>NBR |
| 7 | Cartuccia/Cartridge<br>• Struttura/structure: PP<br>• Rete Poliestere - INOX/Net Pc |
| 8 | Guarnizione cartuccia/Cartr<br>NBR |
| 9 | Corpo/Body<br>PPFV nero /Black PPGF* |
| 10 | Adattatori manometri/Manc |




*Stabilizzato UV/UV stabilized

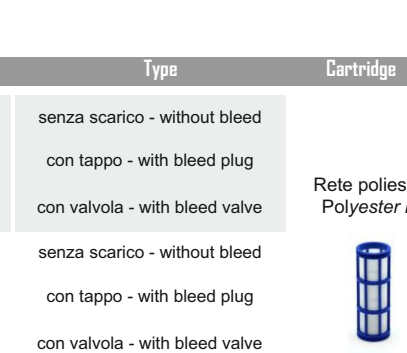
# Filtro a rete MINI

## 20015

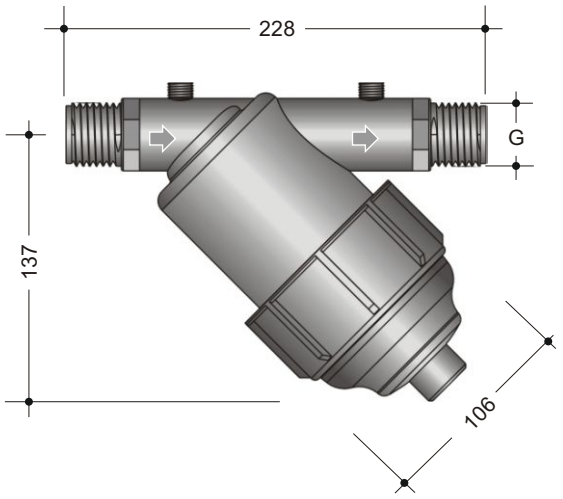
Screen Filters



| Code | Size | Type | Cartridge |
|---|---|---|---|
| 20015-C1S-120 | 3/4" BSP (Gas) | senza scarico - without bleed | Rete poliestere Polyester *net* |
| 20015-C1T-120 | | con tappo - with bleed plug | |
| 20015-C1V-120 | | con valvola - with bleed valve | |
| 20015-D1S-120 | 1" BSP (Gas) | senza scarico - without bleed | |
| 20015-D1T-120 | | con tappo - with bleed plug | |
| 20015-D1V-120 | | con valvola - with bleed valve | |
| 20015-E1S-120 | 1" 1/4 BSP (Gas) | senza scarico - without bleed | |
| 20015-E1T-120 | | con tappo - with bleed plug | |
| 20015-E1V-120 | | con valvola - with bleed valve | |
| C20015-N-120-DP | Cartuccia Rete Poliestere 120 MESH - Polyester *net* cartridge 120 MESH | | |
| 20015-ICS-120 | 3/4" BSP (Gas) | senza scarico - without bleed | Rete INOX Stainless Steel Net |
| 20015-ICT-120 | | con tappo - with bleed plug | |
| 20015-ICV-120 | | con valvola - with bleed valve | |
| 20015-IDS-120 | 1" BSP (Gas) | senza scarico - without bleed | |
| 20015-IDT-120 | | con tappo - with bleed plug | |
| 20015-IDV-120 | | con valvola - with bleed valve | |
| 20015-IES-120 | 1" 1/4 BSP (Gas) | senza scarico - without bleed | |
| 20015-IET-120 | | con tappo - with bleed plug | |
| 20015-IEV-120 | | con valvola - with bleed valve | |
| C20015-I-120 | Cartuccia Rete Inox - *Stainless steel cartridge - 120 MESH* | | |



120 mesh
135 micron






120 mesh
135 micron

Filettature conformi alle norme/Threads complying with standard UNI EN 10226-1,-2; ANSI/ASME B1.20.1

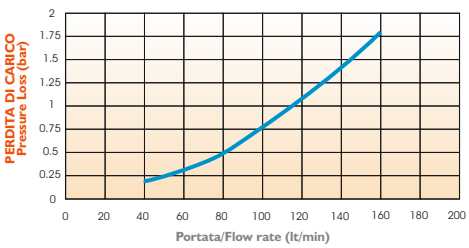
## GRAFICO PERDITA DI CARICO

PRESSURE LOSS GRAPH - COURBES PERTE DE CHARGE - GRAFICO PERDIDA DE CARGA

### Ø 3/4"

Pressione Max : 8 bar
Portata Max consigliata : 80 lt/min (4.8 $m^3$/h)
Superficie filtrante : 120 $cm^2$

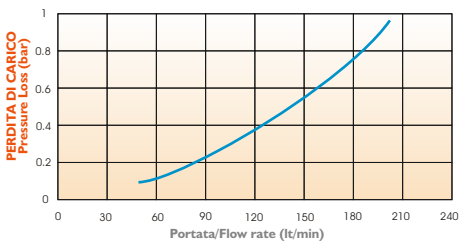
Max Pressure : 116 psi
Max Flow recommended : 21.136 gal/min
Filtering area : 18.60 sq.in




### Ø 1"

Pressione Max : 8 bar
Portata Max consigliata : 130 lt/min (7,8 $m^3$/h)
Superficie filtrante : 120 $cm^2$

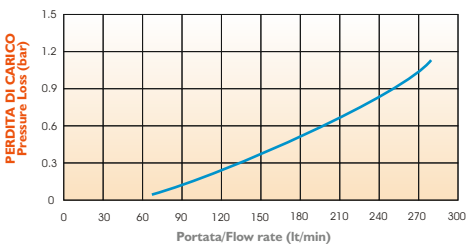
Max Pressure : 116 psi
Max Flow recommended : 34,346 gal/min
Filtering area : 18.60 sq.in




### Ø 1" 1/4

Pressione Max : 8 bar
Portata Max consigliata : 170 lt/min (10.2 $m^3$/h)
Superficie filtrante : 120 $cm^2$

Max Pressure : 116 psi
Max Flow recommended : 44.914 gal/min
Filtering area : 18.60 sq.in




120 mesh
135 micron

# Filtro a rete allungato 20015A

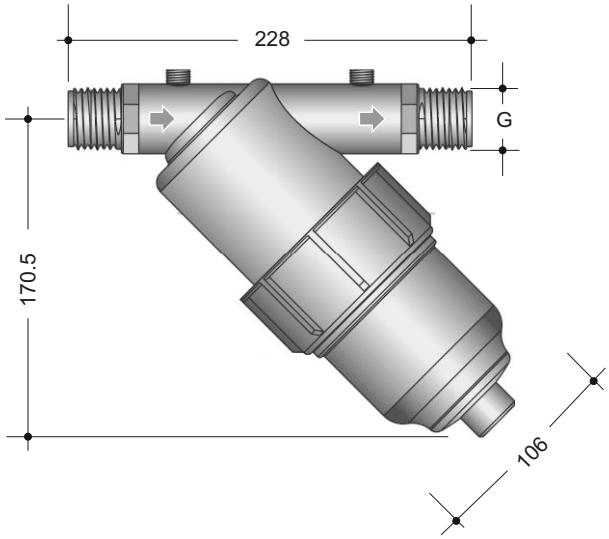
Extended Screen Filters



| Code | Size | Type | Cartridge |
|---|---|---|---|
| 20015-C2S-120 | 3/4" BSP (Gas) | senza scarico - without bleed | Rete poliestere Polyester net |
| 20015-C2T-120 | | con tappo - with bleed plug | |
| 20015-C2V-120 | | con valvola - with bleed valve | |
| 20015-D2S-120 | 1" BSP (Gas) | senza scarico - without bleed | |
| 20015-D2T-120 | | con tappo - with bleed plug | |
| 20015-D2V-120 | | con valvola - with bleed valve | |
| 20015-E2S-120 | 1" 1/4 BSP (Gas) | senza scarico - without bleed | |
| 20015-E2T-120 | | con tappo - with bleed plug | |
| 20015-E2V-120 | | con valvola - with bleed valve | |
| C20015-A-120-DP | Cartuccia a Rete allungata - Polyester net Extended cartridge | | |



120 mesh
135 micron




Filettature conformi alle norme/Threads complying with standard
UNI EN 10226-1,-2; ANSI/ASME B1.20.1

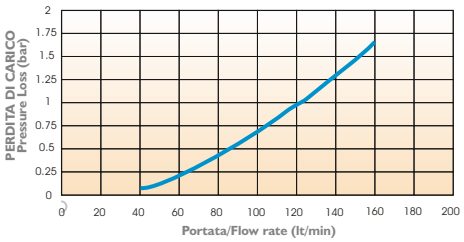
## GRAFICO PERDITA DI CARICO

PRESSURE LOSS GRAPH - COURBES PERTE DE CHARGE - GRAFICO PERDIDA DE CARGA

### Ø 3/4"

Pressione Max : 8 bar
Portata Max consigliata : 90 lt/min (5.4 $m^3$/h)
Superficie filtrante : 170 $cm^2$

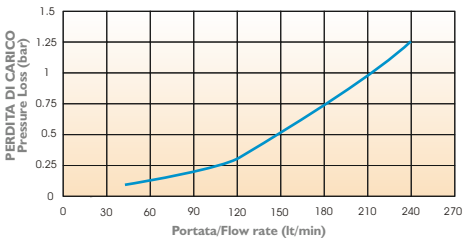
Max Pressure : 116 psi
Max Flow recommended : 23.78 gal/min
Filtering area : 26.35 sq.in




### Ø 1"

Pressione Max : 8 bar
Portata Max consigliata : 150 lt/min (9 $m^3$/h)
Superficie filtrante : 170 $cm^2$

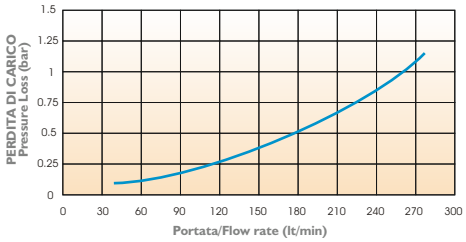
Max Pressure : 116 psi
Max Flow recommended : 39.63 gal/min
Filtering area : 26.35 sq.in




### Ø 1" 1/4

Pressione Max : 8 bar
Portata Max consigliata : 180 lt/min (10.8 $m^3$/h)
Superficie filtrante : 170 $cm^2$

Max Pressure : 116 psi
Max Flow recommended : 47.55 gal/min
Filtering area : 26.35 sq.in



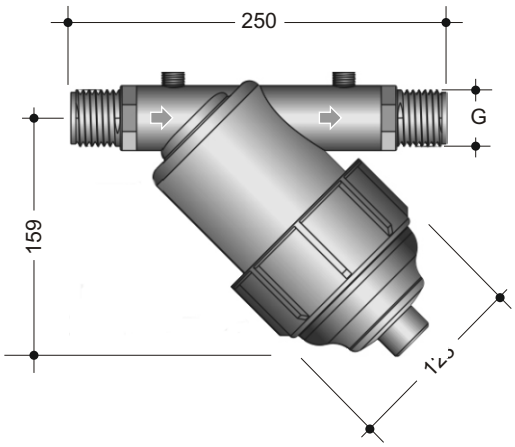

120 mesh
135 micron

# Filtro a rete MEDIUM 20020

Screen Filters

| Code | Size | Type | Cartridge |
|---|---|---|---|
| 20020-E1S-120 | 1"1/4 BSP (Gas) | senza scarico - without bleed | Rete poliestere Polyester *net* |
| 20020-E1T-120 | | con tappo - with bleed plug | |
| 20020-E1V-120 | | con valvola - with bleed valve | |
| 20020-F2S-120 | 1"1/2 BSP (Gas) | senza scarico - without bleed | |
| 20020-F2T-120 | | con tappo - with bleed plug | |
| 20020-F2V-120 | | con valvola - with bleed valve | |
| 20020-F2SN-120 | 1"1/2 NPT | senza scarico - without bleed | 120 mesh 135 micron |
| 20020-F2TN-120 | | con tappo - with bleed plug | |
| 20020-F2VN-120 | | con valvola - with bleed valve | |
| C20020-120-DP | Cartuccia RETE Poliestere - Polyester *net* cartridge | | |
| 20020-IES-120 | 1"1/4 BSP (Gas) | senza scarico - without bleed | Rete INOX Stainless Steel Net |
| 20020-IET-120 | | con tappo - with bleed plug | |
| 20020-IEV-120 | | con valvola - with bleed valve | |
| 20020-IFS-120 | 1"1/2 BSP (Gas) | senza scarico - without bleed | |
| 20020-IFT-120 | | con tappo - with bleed plug | |
| 20020-IFV-120 | | con valvola - with bleed valve | |
| 20020-IFSN-120 | 1"1/2 NPT | senza scarico - without bleed | 120 mesh 135 micron |
| 20020-IFTN-120 | | con tappo - with bleed plug | |
| 20020-IFVN-120 | | con valvola - with bleed valve | |
| C20020-I-120 | Cartuccia Rete Inox - *Stainless steel cartridge - 120 MESH* | | |






Filettature conformi alle norme/Threads complying with standard UNI EN 10226-1,-2; ANSI/ASME B1.20.1

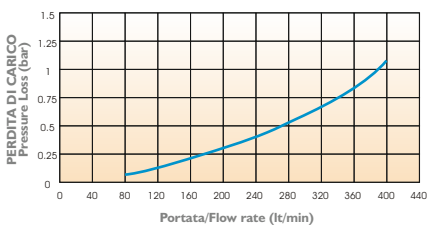
## GRAFICO PERDITA DI CARICO

PRESSURE LOSS GRAPH - COURBES PERTE DE CHARGE - GRAFICO PERDIDA DE CARGA

### Ø 1" 1/4

Pressione Max : 8 bar
Portata Max consigliata : 260 lt/min (15.6 $m^3$/h)
Superficie filtrante : 215 $cm^2$

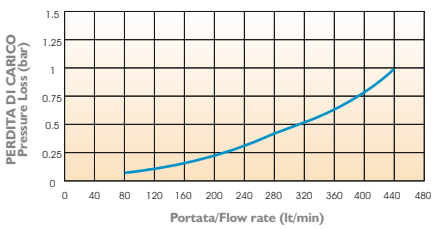
Max Pressure : 116 psi
Max Flow recommended : 68.7 gal/min
Filtering area : 33.33 sq.in




### 1" 1/2

Pressione Max : 8 bar
Portata Max consigliata : 300 lt/min (18 $m^3$/h)
Superficie filtrante : 215 $cm^2$

Max Pressure : 116 psi
Max Flow recommended : 79.26 gal/min
Filtering area : 33.33 sq.in




120 mesh
135 micron

Prove effettuate in Laboratorio utilizzando acqua limpida alla temperatura di 20±1 secondo la norma UNI 10286.
Test carried out using limpid water at 20±1 according to UNI 10286 standard.

# Filtro a rete MAXI 20025

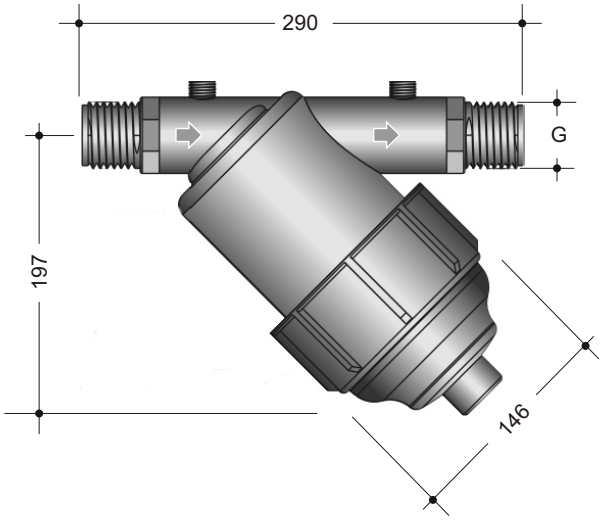
Screen Filters

| Code | Size | Type | Cartridge |
|---|---|---|---|
| 20025-F1S-120<br>20025-F1T-120<br>20025-F1V-120 | 1"1/2 BSP (Gas) | senza scarico - without bleed<br>con tappo - with bleed plug<br>con valvola - with bleed valve | Rete poliestere<br>*Polyester net* |
| 20025-F1SN-120<br>20025-F1TN-120<br>20025-F1VN-120 | 1"1/2 NPT | senza scarico - without bleed<br>con tappo - with bleed plug<br>con valvola - with bleed valve | |
| 20025-G2S-120<br>20025-G2T-120<br>20025-G2V-120 | 2" BSP (Gas) | senza scarico - without bleed<br>con tappo - with bleed plug<br>con valvola - with bleed valve | |
| 20025-G2SN-120<br>20025-G2TN-120<br>20025-G2VN-120 | 2" NPT | senza scarico - without bleed<br>con tappo - with bleed plug<br>con valvola - with bleed valve | |
| C20025-120-DP | Cartuccia Rete Poliestere 120 MESH - Polyester *net* cartridge 120 MESH | | |
| 20025-IFS-120<br>20025-IFT-120<br>20025-IFV-120 | 1"1/2 BSP (Gas) | senza scarico - without bleed<br>con tappo - with bleed plug<br>con valvola - with bleed valve | **Rete INOX Stainless Steel Net** |
| 20025-IFSN-120<br>20025-IFTN-120<br>20025-IFVN-120 | 1"1/2 NPT | senza scarico - without bleed<br>con tappo - with bleed plug<br>con valvola - with bleed valve | |
| 20025-IGS-120<br>20025-IGT-120<br>20025-IGV-120 | 2" BSP (Gas) | senza scarico - without bleed<br>con tappo - with bleed plug<br>con valvola - with bleed valve | |
| 20025-IGSN-120<br>20025-IGTN-120<br>20025-IGVN-120 | 2" NPT | senza scarico - without bleed<br>con tappo - with bleed plug<br>con valvola - with bleed valve | |
| C20025-I-120 | Cartuccia RETE INOX - *Stainless steel cartridge - 120 MESH* | | |





120 mesh
135 micron




Filettature conformi alle norme/Threads complying with standard UNI EN 10226-1,-2; ANSI/ASME B1.20.1

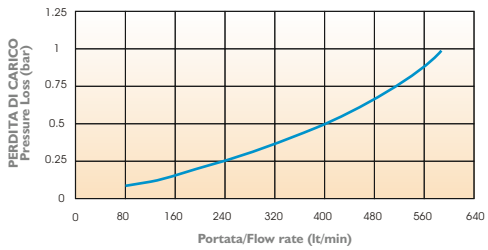
## GRAFICO PERDITA DI CARICO

**PRESSURE LOSS GRAPH - COURBES PERTE DE CHARGE - GRAFICO PERDIDA DE CARGA**

### Ø 1" 1/2

Pressione Max : 8 bar
Portata Max consigliata : 400 lt/min (24 $m^3$/h)
Superficie filtrante : 340 $cm^2$

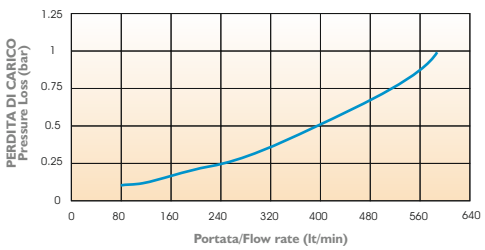
Max Pressure : 116 psi
Max Flow recommended : 105.7 gal/min
Filtering area : 57.70 sq.in




### 2"

Pressione Max : 8 bar
Portata Max consigliata : 430 lt/min (3.40 $m^3$/h)
Superficie filtrante : 340 $cm^2$

Max Pressure : 116 psi
Max Flow recommended : 113.6 gal/min
Filtering area : 52.70 sq.in

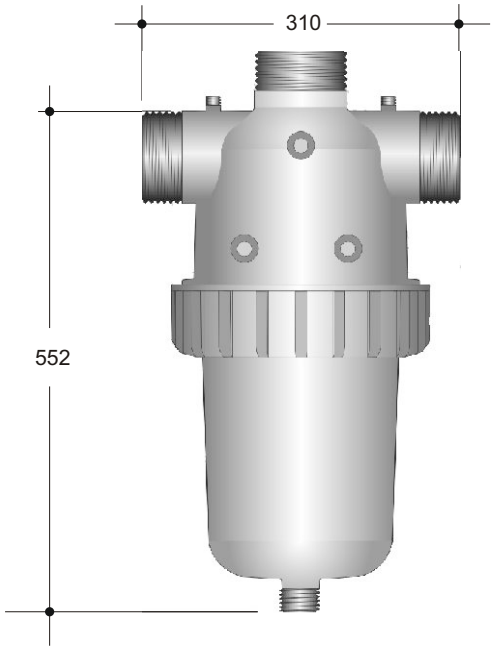



120 mesh
135 micron

Prove effettuate in Laboratorio utilizzando acqua limpida alla temperatura di 20±1 secondo la norma UNI 10286.
Test carried out using limpid water at 20±1 according to UNI 10286 standard.

# Filtro a rete monocorpo allungato 20540

Screen Filters - Extended Single Body






| Code | Size | Type | Cartridge |
|---|---|---|---|
| 20540-IG-120-2.0<br>20540-IGN120-2.0<br>20540-IGV120-2.0 | 2" BSP (Gas)<br>2" NPT<br>2" ALFARAPID | Con tappo<br>With Cap | Rete Inox<br>Stainless Steel<br>Net |
| 20540-IVG-120-2.0<br>20540-IVGN-120-2.0<br>20540-IVGV-120-2.0 | 2" BSP (Gas)<br>2" NPT<br>2" ALFARAPID | Con Valvola<br>with Valve | |
| 20540-IL-120-2.0<br>20540-ILN-120-2.0<br>20540-ILV-120-2.0 | 2" BSP (Gas)<br>2" NPT<br>2" ALFARAPID | Con tappo<br>With Cap | |
| 20540-IVL-120-2.0<br>20540-IVLN-120-2.0<br>20540-IVLV-120-2.0 | 2" BSP (Gas)<br>2" NPT<br>2" ALFARAPID | Con Valvola<br>with Valve | 120 mesh<br>135 micron |

| | |
|---|---|
| C20540-I-120 | Cartuccia INOX allungata - Extended stainless steel cartridge - 120 MESH |

Filettature conformi alle norme/Threads complying with standard
UNI EN 10226-1,-2; ANSI/ASME B1.20.1

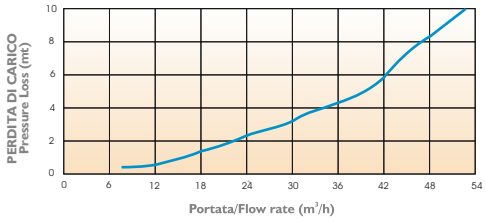
## GRAFICO PERDITA DI CARICO

PRESSURE LOSS GRAPH - COURBES PERTE DE CHARGE - GRAFICO PERDIDA DE CARGA

### Ø 2"
Mono-corps allongè - Extended single-body - Monocuerpo extendido

Pressione max: 8 bar
Portata max consigliata: 580 lt/min (34,8 $m^3/h$)
Superficie filtrante: 635 $cm^2$

Max pressure: 116 bar
Max Flow recommended : 153.2 gal/min
Filtering area: 98,43 sq.in



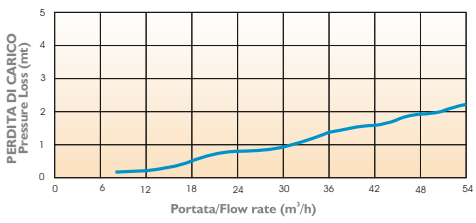




### Ø 3"
Mono-corps allongè - Extended single-body - Monocuerpo extendido

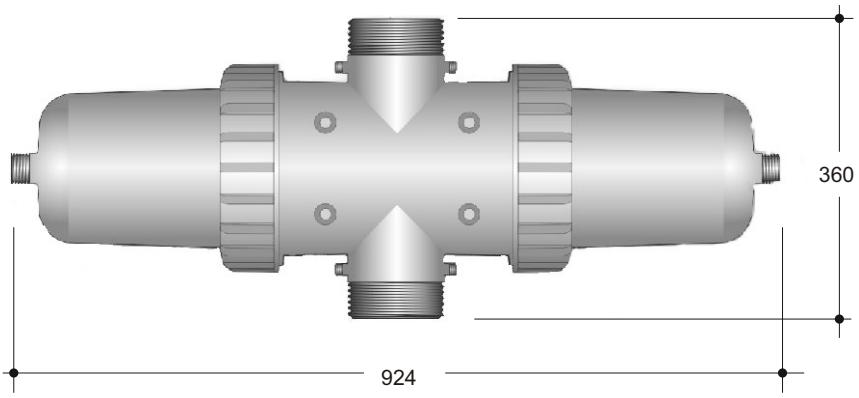
Pressione max: 8 bar
Portata max consigliata: 790 lt/min (47,4 $m^3/h$)
Superficie filtrante: 635 $cm^2$

Max pressure: 116 bar
Max Flow recommended : 153.2 gal/min
Filtering area: 98,43 sq.in



# Filtro a rete doppiocorpo allungato 20550

Screen Filters - Twin body Extended






| Code | Size | Type | Cartridge |
|---|---|---|---|
| 20550-IL-120-2.0<br>20550-ILN-120-2.0<br>20550-ILV-120-2.0 | 3" BSP (Gas)<br>3" NPT<br>3" ALFARAPID | Con tappo<br>With Cap | Rete Inox<br>Stainless Steel<br>Net |
| 20550-IVL-120-2.0<br>20550-IVLN-120-2.0<br>20550-IVLV-120-2.0 | | Con Valvola<br>with Valve |  |
| 20550-IM-120-2.0<br>20550-IMN-120-2.0<br>20550-IMV-120-2.0 | 4" BSP (Gas)<br>4" NPT<br>4" ALFARAPID | Con tappo<br>With Cap | |
| 20550-IVM-120-2.0<br>20550-IVMN-120-2.0<br>20550-IVMV-120-2.0 | 4" BSP (Gas)<br>4" NPT<br>4" ALFARAPID | Con Valvola<br>with Valve | **120 mesh**<br>135 micron |

| | |
|---|---|
| C20540-I-120 | Cartuccia INOX allungata - Extended stainless steel cartridge - 120 MESH |

Filettature conformi alle norme/Threads complying with standard
UNI EN 10226-1,-2; ANSI/ASME B1.20.1

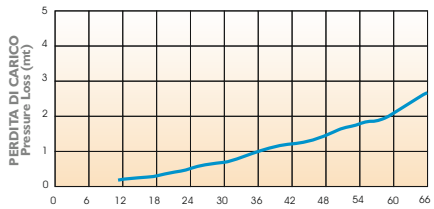
## GRAFICO PERDITA DI CARICO

**PRESSURE LOSS GRAPH - COURBES PERTE DE CHARGE - GRAFICO PERDIDA DE CARGA**

### Ø 3"
**Single-body - Monocorpo - Mono-corps - Monocuerpo**

Pressione max: 8 bar
Portata max consigliata: 1020 lt/min (61,2 $m^3$/h)
Superficie filtrante: 1270 $cm^2$

Max pressure: 116 bar
Max Flow recommended : 153.2 gal/min
Filtering area: 196,88 sq.in



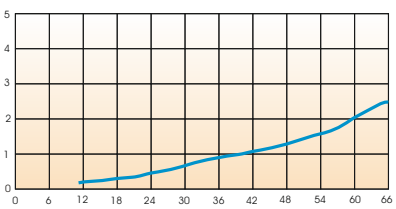




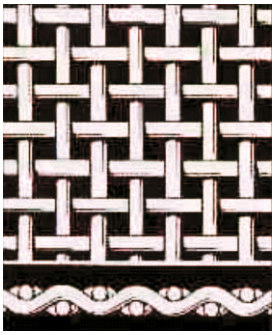
### Ø 4"
**Single-body - Monocorpo - Mono-corps - Monocuerpo**

Pressione max: 8 bar
Portata max consigliata: 1200 lt/min (72 $m^3$/h)
Superficie filtrante: 1270 $cm^2$

Max pressure: 116 bar
Max Flow recommended : 317 gal/min
Filtering area: 196,88 sq.in



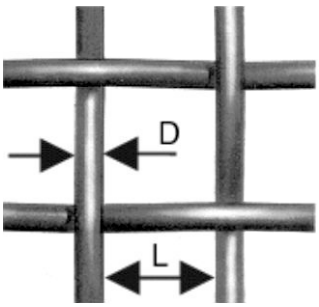
## CARATTERISTICHE CARTUCCE A RETE - NET CARTRIDGE TECHNICAL FEATURES





### *rete poliestere - polyester net*

| Colore *Colour* | Mesh | Materiale Material | Diametro filo Wire diameter (μm) | Apertura maglia Mesh opening (μm) | A%* |
|---|---|---|---|---|---|
| | 75 | polyester | 121 | 200 | 39 |
| | 100 | polyester | 83 | 175 | 46 |
| | 120 | polyester | 86 | 135 | 37,5 |
| | 150 | polyester | 77 | 100 | 32 |






### *rete inox - stainless steel net*

| Colore *Colour* | Mesh | Materiale *Material* | Diametro filo *Wire diameter (μm)* | Apertura maglia *Mesh opening (μm)* | A%* |
|---|---|---|---|---|---|
| | 120 | AISI 304 | 80 | 135 | 39 |

* Rapporto % tra la superficie delle aperture e la superficie totale della rete
* Percentage ratio between mesh opening area and mesh total area

## GARANZIA/WARRANTY

1.Plastica Alfa S.R.L. agrees formally either to replace any defective component or to repair any manufacturing or assembly defect if those of exclusively responsibility of Plastica Alfa S.R.L. the buyer must inform Plastica Alfa S.R.L. about the defects in a maximum period of one year from the delivery date. Once the period has expired, either refunds or claims due to those reasons will not be accepted. The warranty will cover no cost of displacement, neither of materials freight, nor the expenses of assembly or disassembling of products.

2. The express warranty provided herein is effective only if claim is made by written notice within the applicable warranty period and sent within thirty days after the notice of the defect on which the claim is based.

3. This warranty will not cover any defects or damages that result either from a wrong installation of the products and materials or a lack of maintenance or inadequate maintenance of the products and materials, to the wearing of the same, to the use of consumable materials not recommended by Plastica Alfa, and in general any other type of irregularities not involved with the operation of the same.

4. This warranty will not cover the damage or harm caused by operating the products in places, installations, environments or aims, without suitable conditions and characteristics to obtain an optimal output of the product.

5. Repairs made during the warranty period will not extend the time of the warranty.

6. This warranty will not cover the products and materials; components or accessories which have not been manufactured by Plastica Alfa S.R.L. or have not been directly bought from Plastica Alfa S.R.L. This warranty is not a consumer or final users warranty and does not extend to anyone other than those trade costumers who directly purchase from Plastica Alfa S.R.L.

7. It is excluded from this warranty damages and failures in the sold materials that result from fortuitous facts and force majeure, such as those caused by inadequate working conditions within the recommended intervals made by Plastica Alfa SRL so much of working pressure, water quality, voltage and exposure conditions to aggressive environments (saline, acid, basic and others).

8. Plastica Alfa S.R.L. will be allowed to check the defects caused by the buyer by the means that may be considered to be appropriate, in any case and previously. The purchaser is not allowed to obstruct the proceedings of the people authorized by Plastica Alfa S.R.L. for verifying the facts.

9. This warranty will not cover those defects which can be attributable to alterations, modifications, or handling made by non-authorized personnel without the previous knowledge or without following the instructions given by Plastica Alfa S.R.L.

10. Plastica Alfa S.R.L. is not liable for direct, indirect, incidental, or consequential damages, including but not limited to possible damages in the system where the filtration equipment is integrated during defective working periods. Neither Plastica Alfa S.R.L. is liable for any loss of damage and property damage resulting from the inadequate installation and /or maintenance operations.

11. No person or organization is authorized to introduce any modification, nor verbal or written, in the present warranty. Except for the obligations specifically set forth in this warranty statement, in no event shall Plastica Alfa S.R.L. be liable for other incidental, damages or compromises.