PLASTICA ALFA
INNOVATION & WATER TECHNOLOGIES

FILTRI A DISCHI
Disk Filters

Technical Catalogue

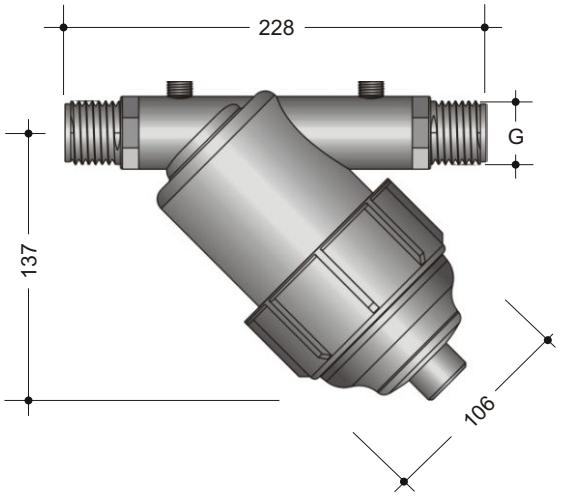


www.plasticalfa.it

Filtro a dischi - MINI

Disk Filters

20015-D





Code	Size	Type	Cartridge
20015-C1S-D-120	3/4" BSP (Gas)	senza scarico *without bleed*	**120 mesh** 130 micron
20015-D1S-D-120	1" BSP (Gas)		
20015-E1S-D-120	1"1/4 BSP (Gas)		
C20015-D-120	Cartuccia a dischi - *Disks cartridge + 120 MESH*		

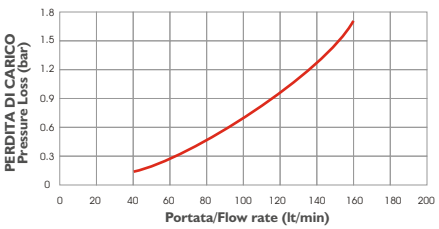
GRAFICO PERDITA DI CARICO

PRESSURE LOSS GRAPH

Ø 3/4"

Pressione Max : 8 bar
Portata Max consigliata : 90 lt/min (5,4 m^3/h)
Superficie filtrante : 184,5 cm^2

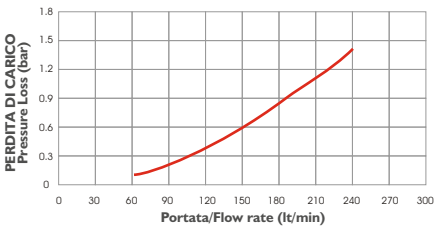
Max Pressure : 116 psi
Max Flow recommended : 23.775 gal/min
Filtering area : 28,6 sq.in



Ø 1"

Pressione Max : 8 bar
Portata Max consigliata : 140 lt/min (8,4 m^3/h)
Superficie filtrante : 184.5 cm^2

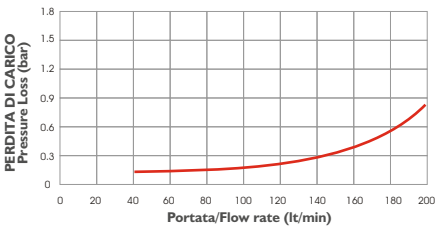
Max Pressure : 116 psi
Max Flow recommended : 37 gal/min
Filtering area : 28,6 sq.in



Ø 1" 1/4

Pressione Max : 8 bar
Portata Max consigliata : 180 lt/min (10.8 m^3/h)
Superficie filtrante : 184.5 cm^2

Max Pressure : 116 psi
Max Flow recommended : 47.55 gal/min
Filtering area : 28.6 sq.in



120 mesh
130 micron

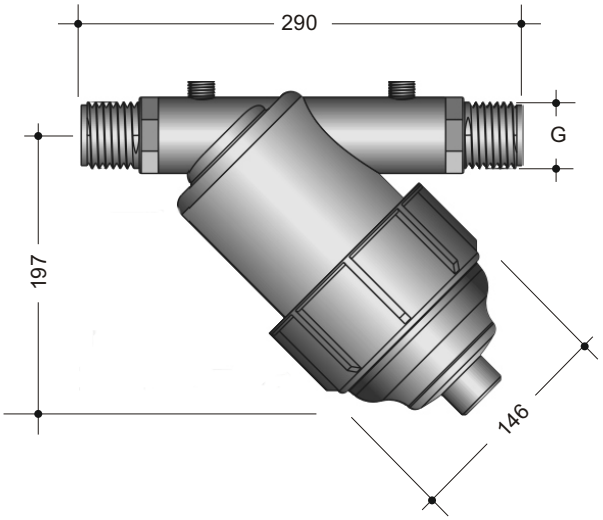
Filettature conformi alle norme/Threads complying with standard
UNI EN 10226-1,-2; ANSI/ASME B1.20.1

Filtro a dischi - MAXI

Disk Filters

20025-D





Code	Size	Type	Cartridge
20025-F1S-D	1"1/2 BSP (Gas)	senza scarico *without bleed*	**120 mesh** 130 micron
20025-F1SN-D	1"1/2 NPT		
20025-G2S-D	2" BSP (Gas)		
20025-G2SN-D	2" NPT		
C20025-D-120	Cartuccia a dischi - *Disks cartridge + 120 MESH*		

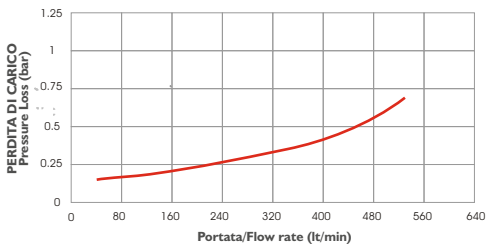
GRAFICO PERDITA DI CARICO

PRESSURE LOSS GRAPH

Ø 1" 1/2

Pressione Max : 8 bar
Portata Max consigliata : 460 lt/min (27,6 m^3/h)
Superficie filtrante : 490 cm^2

Max Pressure : 116 psi
Max Flow recommended : 121 gal/min
Filtering area : 75,95 sq.in

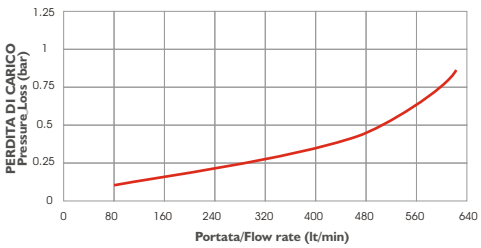




Ø 2"

Pressione Max : 8 bar
Portata Max consigliata : 500 lt/min (30.0 m^3/h)
Superficie filtrante : 490 cm^2

Max Pressure : 116 psi
Max Flow recommended : 132.1 gal/min
Filtering area : 75.95 sq.in



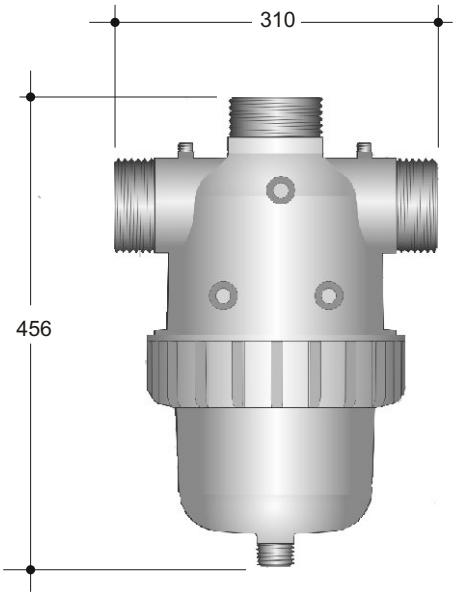
Filettature conformi alle norme/Threads complying with standard
UNI EN 10226-1,-2; ANSI/ASME B1.20.1

Filtro a dischi monocorpo

Disk Filters - Single Body

20535







C20535-75	C20535-150	C20535-X-75	C20535-X-150
75 mesh 200 micron	150 mesh 100 micron	VORTIX	

Code	Size	Cartridge
20535-G-120-2.0 20535-GN-120-2.0 20535-GV-120-2.0	2" BSP (Gas) 2" NPT 2" ALFARAPID	 120 mesh 130 micron
20535-L-120-2.0 20535-LN-120-2.0 20535-LV-120-2.0	3" BSP (Gas) 3" NPT 3" ALFARAPID	
20535-XG-120-2.0 20535-XGN-120-2.0 20535-XGV-120-2.0	2" BSP (Gas) 2" NPT 2" ALFARAPID	Dischi - *disks* VORTIX 
20535-XL-120-2.0 20535-XLN-120-2.0 20535-XLV-120-2.0	3" BSP (Gas) 3" NPT 3" ALFARAPID	



C20535-120 — Cartuccia Dischi - *Disks cartridge: 120 MESH*



C20535-X-120 — Cartuccia VORTIX - *Vortix disks cartridge: 120 Mesh*

GRAFICO PERDITA DI CARICO

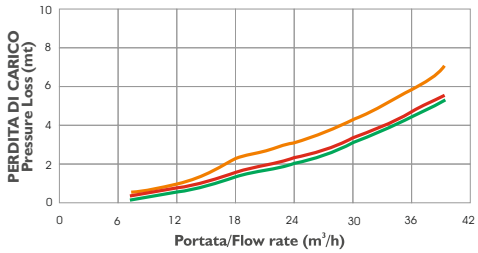
PRESSURE LOSS GRAPH

Ø 2"

Monocorpo - Single-body

Pressione Max : 8 bar
Portata Max consigliata : 530 lt/min (31.8 m^3/h)
Superficie filtrante : 878 cm^2

Max Pressure : 116 psi
Max Flow recommended : 140 gal/min
Filtering area : 136 sq.in



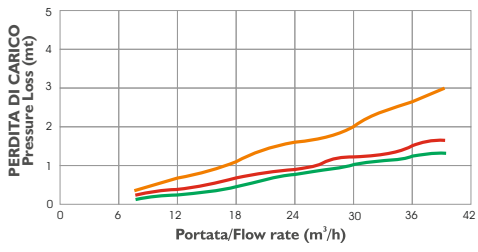


Ø 3"

Monocorpo - Single-body

Pressione Max : 8 bar
Portata Max consigliata : 715 lt/min (42.9 m^3/h)
Superficie filtrante : 878 cm^2

Max Pressure : 116 psi
Max Flow recommended : 188.88 gal/min
Filtering area : 136 sq.in



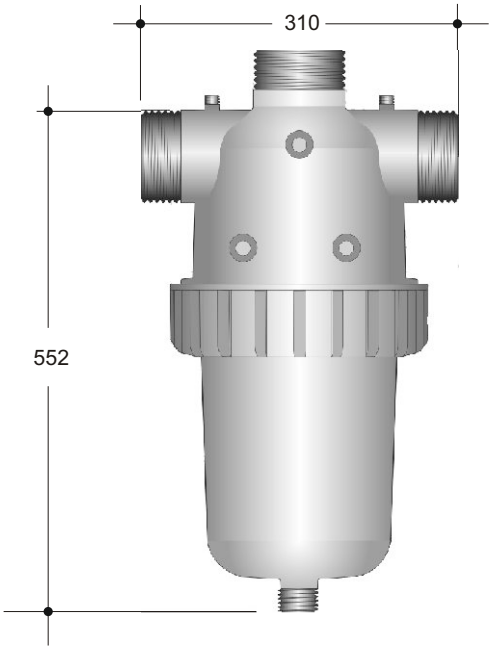
Filettature conformi alle norme/Threads complying with standard UNI EN 10226-1,-2; ANSI/ASME B1.20.1

Filtro a dischi monocorpo allungato

Disk Filters - Extended Single Body

20540







C20540-75	C20540-150	C20540-X-75	C20540-X-150
75 mesh 200 micron	150 mesh 100 micron	VORTIX	

Code	Size	Cartridge
20540-G-120-2.0	2” BSP (Gas)	 120 mesh 130 micron
20540-GN-120-2.0	2” NPT	
20540-GV-120-2.0	2” ALFARAPID	
20540-L-120-2.0	3” BSP (Gas)	
20540-LN-120-2.0	3” NPT	
20540-LV-120-2.0	3” ALFARAPID	
20540-XG-120-2.0	2” BSP (Gas)	Dischi - *disks* VORTIX 
20540-XGN-120-2.0	2” NPT	
20540-XGV-120-2.0	2” ALFARAPID	
20540-XL-120-2.0	3” BSP (Gas)	
20540-XLN-120-2.0	3” NPT	
20540-XLV-120-2.0	3” ALFARAPID	

 C20540-120 — Cartuccia Dischi - *Disks cartridge: 120 MESH*

 C20540-X-120 — Cartuccia VORTIX - *Vortix disks cartridge: 120 Mesh*

GRAFICO PERDITA DI CARICO

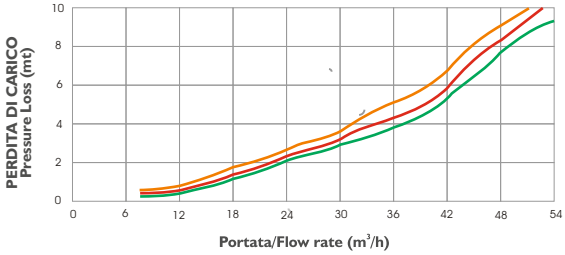
PRESSURE LOSS GRAPH

Ø 2”

Monocorpo allungato - Extended single-body

Pressione Max : 8 bar
Portata Max consigliata : 580 lt/min (34.8 m^3/h)
Superficie filtrante : 1245 cm^2

Max Pressure : 116 psi
Max Flow recommended : 153.2 gal/min
Filtering area : 193 sq.in



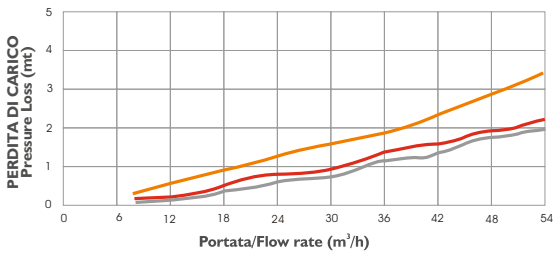


Ø 3”

Monocorpo allungato - Extended single-body

Pressione Max : 8 bar
Portata Max consigliata : 790 lt/min (47,4 m^3/h)
Superficie filtrante : 1245 cm^2

Max Pressure : 116 psi
Max Flow recommended : 208.7 gal/min
Filtering area : 193 sq.in



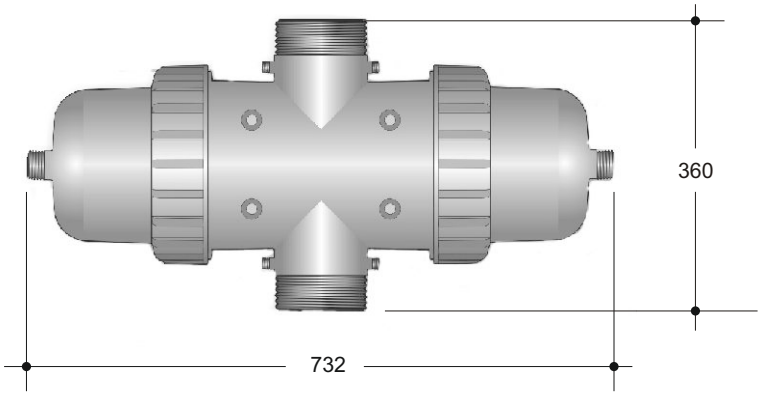
Filettature conformi alle norme/Threads complying with standard UNI EN 10226-1,-2; ANSI/ASME B1.20.1

Filtro a dischi - Doppiocorpo

Disk Filters - Twin Body

20545





Code	Size	Cartridge
20545-L-120-2.0	3" BSP (Gas)	 120 mesh 130 micron
20545-LN-120-2.0	3" NPT	
20545-LV-120-2.0	3" ALFARAPID	
20545-M-120-2.0	4" BSP (Gas)	
20545-MN-120-2.0	4" NPT	
20545-MV-120-2.0	4" ALFARAPID	
20545-XL-120-2.0	3" BSP (Gas)	Dischi - *disks* VORTIX 
20545-XLN-120-2.0	3" NPT	
20545-XLV-120-2.0	3" ALFARAPID	
20545-XM-120-2.0	4" BSP (Gas)	
20545-XMN-120-2.0	4" NPT	
20545-XMV-120-2.0	4" ALFARAPID	


C20535-75
75 mesh
200 micron


C20535-150
150 mesh
100 micron

C20535-X-75 C20535-X-150
VORTIX


C20535-120 Cartuccia Dischi - *Disks cartridge: 120 MESH*


C20535-X-120 Cartuccia VORTIX - *Vortix disks cartridge: 120 Mesh*

GRAFICO PERDITA DI CARICO

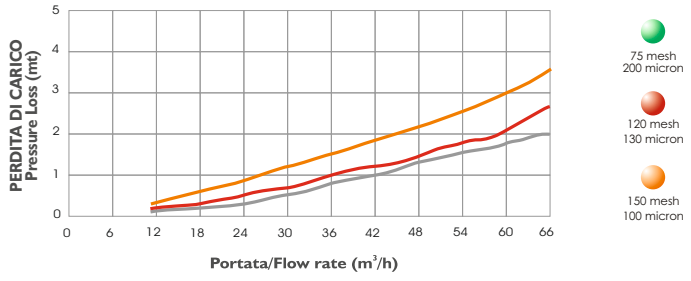
PRESSURE LOSS GRAPH

Ø 3"

Doppiocorpo -Twin Body

Pressione Max : 8 bar
Portata Max consigliata : 960 lt/min (57.6 m^3/h)
Superficie filtrante : 1756 cm^2

Max Pressure : 116 psi
Max Flow recommended : 253.6 gal/min
Filtering area : 272 sq.in

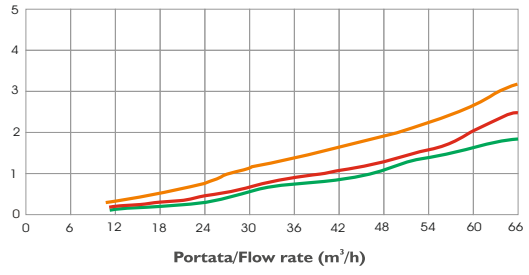


Ø 4"

Doppiocorpo -Twin Body

Pressione Max : 8 bar
Portata Max consigliata : 1140 lt/min (68.4 m^3/h)
Superficie filtrante : 1756 cm^2

Max Pressure : 116 psi
Max Flow recommended : 301.15 gal/min
Filtering area : 272 sq.in



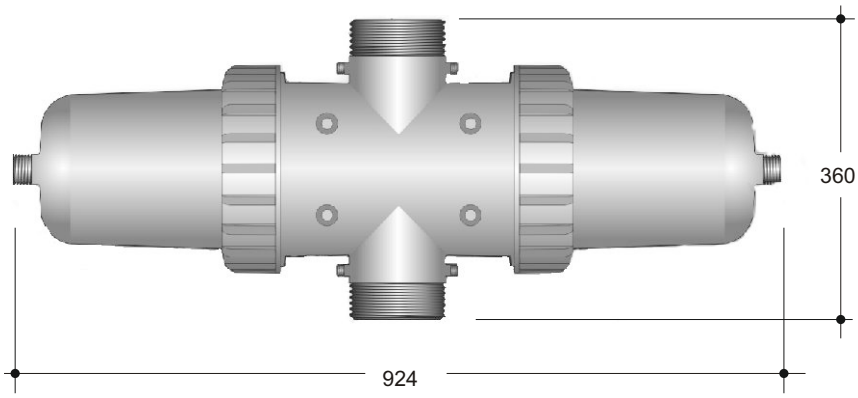
Filettature conformi alle norme/Threads complying with standard
UNI EN 10226-1,-2; ANSI/ASME B1.20.1

Filtro a dischi - Doppiocorpo allungato

20550

Disk Filters - Extended Twin Body





Code	Size	Cartridge
20550-L-120-2.0	3" BSP (Gas)	120 mesh 130 micron
20550-LN-120-2.0	3" NPT	
20550-LV-120-2.0	3" ALFARAPID	
20550-M-120-2.0	4" BSP (Gas)	
20550-MN-120-2.0	4" NPT	
20550-MV-120-2.0	4" ALFARAPID	
20550-XL-120-2.0	3" BSP (Gas)	Dischi - *disks* VORTIX
20550-XLN-120-2.0	3" NPT	
20550-XLV-120-2.0	3" ALFARAPID	
20550-XM-120-2.0	4" BSP (Gas)	
20550-XMN-120-2.0	4" NPT	
20550-XMV-120-2.0	4" ALFARAPID	


C20540-75
75 mesh
200 micron


C20540-150
150 mesh
100 micron


C20540-X-75


C20540-X-150

VORTIX


C20540-120 Cartuccia Dischi - *Disks cartridge: 120 MESH*


C20540-X-120 Cartuccia VORTIX - *Vortix disks cartridge: 120 Mesh*

GRAFICO PERDITA DI CARICO

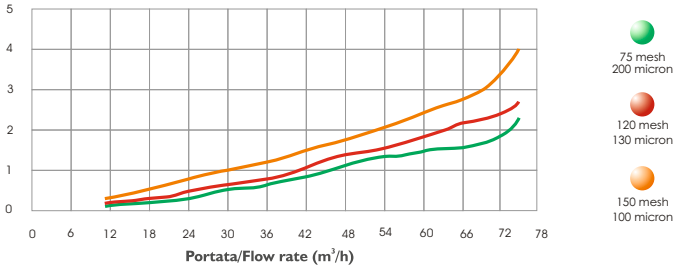
PRESSURE LOSS GRAPH

Ø 3"

Doppiocorpo allungato - Extended single-body

Pressione Max : 8 bar
Portata Max consigliata : 1020 lt/min (61.2 m^3/h)
Superficie filtrante : 2490 cm^2

Max Pressure : 116 Psi
Max Flow recommended : 269.45 gal/min
Filtering area : 386 sq.in

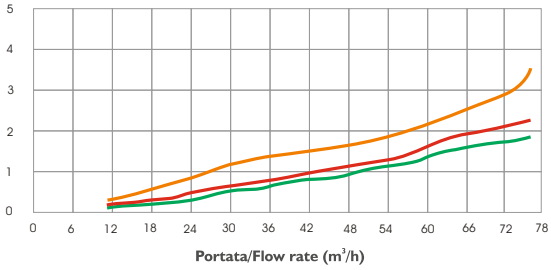


Ø 4"

Doppiocorpo allungato - Extended single-body

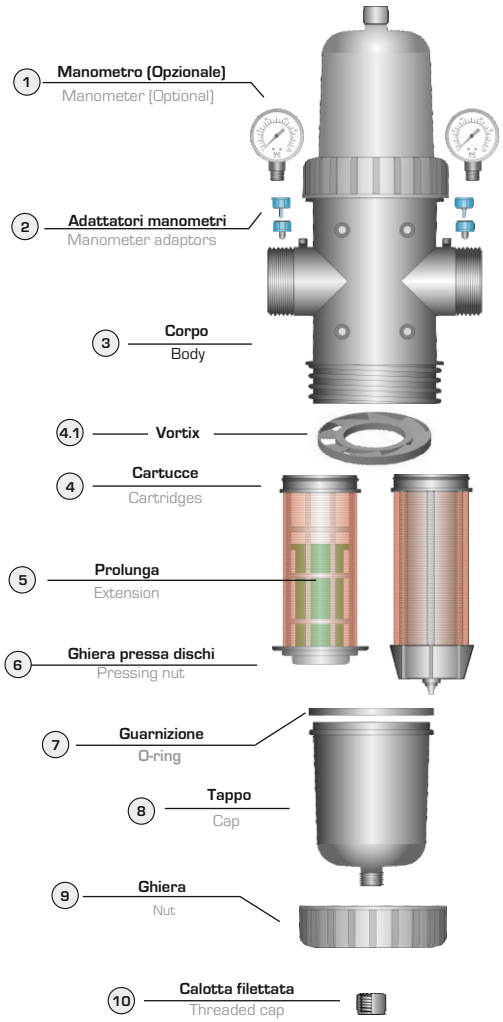
Pressione Max : 8 bar
Portata Max consigliata : 1200 l/m (72 m^3/h)
Superficie filtrante : 2490 cm^2

Max Pressure : 116 psi
Max Flow recommended : 317 gal/min
Filtering area : 386 sq.in



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

COMPONENTI
Components

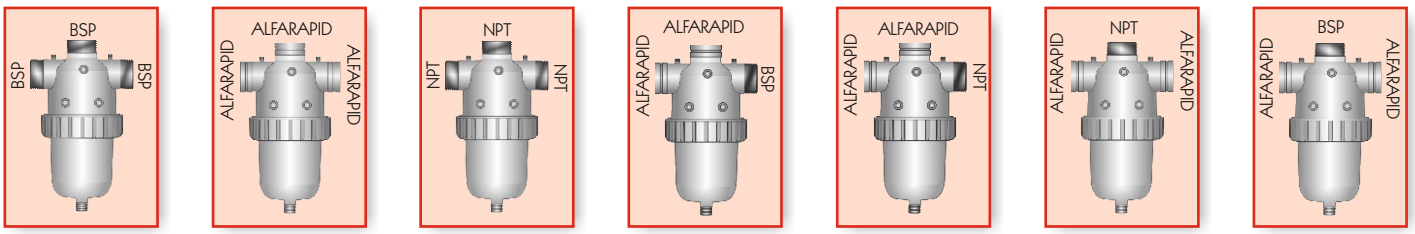


ISTRUZIONI DI MONTAGGIO
Assembly instructions

1. Inserire la cartuccia (4) nelle apposite sedi all'interno del corpo filtro (3);
2. Inserire la guarnizione (7) sul tappo (8);
3. Adagiare il tappo (8) sul corpo (3);
4. Stringere il tappo e il corpo mediante la ghiera (9) con l'ausilio di una chiave a nastro ;
5. Per il controllo della pressione in entrata e in uscita utilizzare due manometri (1) opzionali, da inserire negli appositi adattatori forniti a corredo (2).

1. Insert the cartridge (4) in the proper seat inside the body (3);
2. Insert the o-ring (7) on the cap (8);
3. Put down the cap(8) with care on the body (3);
4. Tighten the cap screwing the nut (9) by a strap wrench;
5. Use two manometers (1) optional - to be connected to the adaptors (2) to control the inlet and outlet pressure.

Attacchi disponibili - Connections available

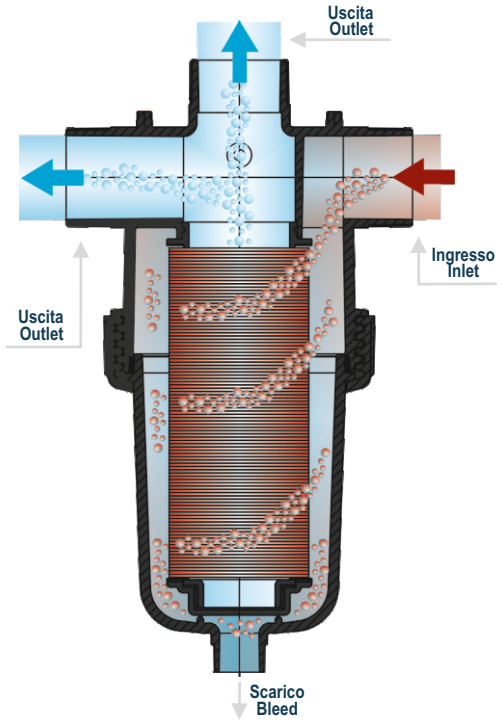


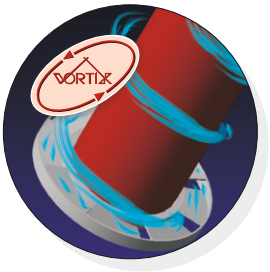
PRINCIPIO DI FUNZIONAMENTO

OPERATING SCHEME

L'acqua da filtrare viene pompata all'interno del filtro e la pressione contribuisce a tenere i dischi compressi l'uno sull'altro aumentando l'efficienza di filtrazione. Le scanalature sulla superficie dei dischi si incrociano e formano una fitta rete che intrappola le impurità; la filtrazione avviene sia sulla superficie esterna della cartuccia che attraverso tutta la profondità delle scanalature dei dischi e l'acqua filtrata fuoriesce dall'interno della cartuccia.
I filtri possono essere puliti manualmente, rimuovendo la cartuccia e spruzzando acqua sui dischi, oppure in maniera automatica. (vedi filtri autopulenti ALFAMATIC).

Dirty water is pumped into the filter and water pressure helps to keep the disks compressed each other, thus increasing filtering efficiency. Grooves on the disks surface cross paths, forming a network that traps impurities; filtering occurs both on the outer surface of the cartridge and through the entire depth of the disk grooves and clean water exits from the inside of the cartridge.
Filters can easily be cleaned manually by removing the element and spraying the disks with water.



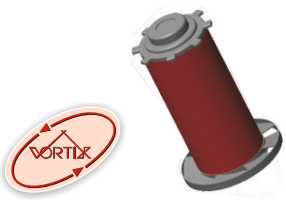


I filtri a dischi Plastica Alfa possono anche essere dotati di un sistema che trasferisce all'acqua un movimento elicoidale: il sistema Vortix, che convoglia le impurità sulle pareti del filtro permettendo così di ridurre notevolmente il numero di lavaggi e quindi il consumo di acqua ed energia.
Plastica Alfa disk filters can also be provided with a device causing an helical movement of the water, the Vortix system that makes the impurities deposit on the inside wall of the filter reducing this way the number of washings and consequently the water and energy consumption.

Tipologia cartucce - Cartridge Types



Cartuccia a dischi
Disk cartridge



Cartuccia a dischi Vortix
Disk cartridge Vortix



Cartuccia ALFAMATIC
Alfamatic cartridge