

3/4" & 1" Plastic Filters with Disc Elements

Features

- Disc filters consist of a body, cover and grooved disc cylinders stacked on a plastic spine, forming a cylindrical filter element. The discs are compressed together inside the filter housing by a spring located at the bottom of the filter cover to provide three-dimensional filtration
- Sediments accumulate on the outer face of the stacked discs, allowing clean water to flow through the discs and out the middle of the filter
- Disc elements provide in-depth filtration to retain organic matter
- During operation, the disc elements are tightly pressed together by pressure and the spring, providing high filtration efficiency
- Discs have excellent resistance to most common chemicals
- Easy maintenance – the discs can be extracted for cleaning
- Interchangeable color-coded discs and stainless-steel screen elements provide a wide range of filtration degrees and options
- Constructed of UV-resistant, durable plastic material to withstand the most adverse conditions

Filter and Disc Materials

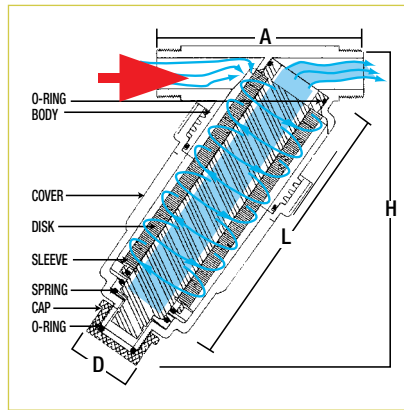
- Housing and discs: polypropylene
- O-ring: EPDM
- Pressure testing ports: polypropylene
- Pressure testing seals: natural rubber BR
- Disc cylinder assembly:

polypropylene / PBT

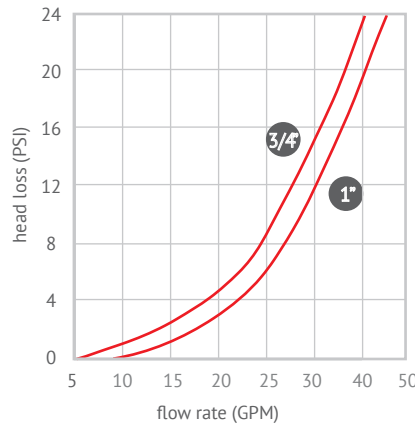
- Spring: stainless steel 304

Specifications

- Operating pressure: up to 120 PSI (8.4 BAR)
- Flow rates: 3/4" & 1": up to 18 GPM (4 m³/h)
- Temperature range: up to 130°F (54°C)
- Inlet and outlet size: 3/4" and 1" MNPT



Head loss (PSI)



Surface area & flow rate

Size	Filtration surface area		Maximum recommended flow rates		
	in	mm	sq. in	cm ²	GPM
3/4	20	27.9	180	13	3
1	25	27.9	180	18	5

Filtration degree & material

Mesh	Micron	Material	Color
80	180	Polypropylene	Yellow
120	130	Polypropylene	Red
150	100	Polypropylene	Black

How to specify

Model	Description	Color
17-432	80-mesh disc set	Yellow
17-433	120-mesh disc set	Red
17-434	150-mesh disc set	Black

P30-XXXX 3/4" MNPT w/disc elements and flush cap

P31-XXXX 1" MNPT w/disc elements and flush cap

XXX = Filter mesh

example: P30-XXXX	080-80 mesh
↓↓↓	120-120 mesh
P30-120D	150-150 mesh

Dimension & weight

Size	A		B		C		D		WT
	in	mm	in	mm	in	mm	in	mm	lbs
3/4"	4.71	120	1.5	38	6	152	7	177	.644
1"	4.74	120	1.5	38	6	152	7	177	.638

1 1/2" & 2" Plastic Filters with Disc Elements

Features

- Sediments accumulate on the outer face of the stacked discs, allowing clean water to flow through the discs and out the middle of the filter
- Disc elements provide in-depth filtration to retain organic matter
- During operation, the disc elements are tightly pressed together by pressure and the spring, providing high filtration efficiency
- Discs have excellent resistance to most common chemicals
- Easy maintenance – the discs can be extracted for cleaning
- Interchangeable color-coded discs and stainless-steel screen elements provide a wide range of filtration degrees and options
- Constructed of UV-resistant, durable plastic material to withstand the most adverse conditions

Specifications

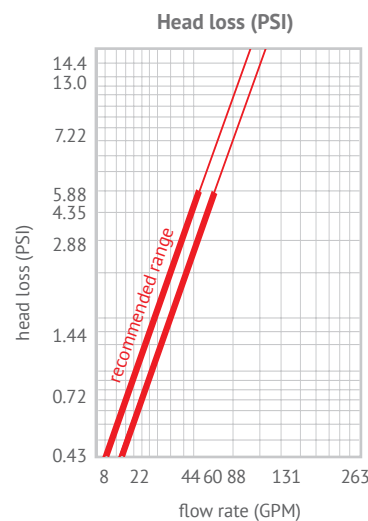
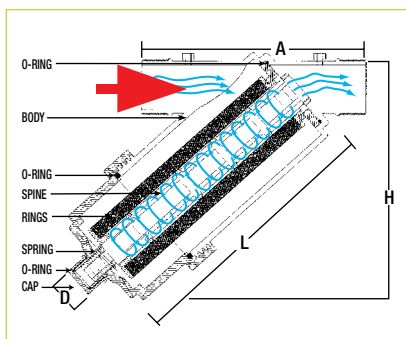
- Operating pressure: up to 120 PSI (8.4 BAR)
- Flow rates: 1 1/2" & 2": up to 60 GPM (13.6 m³/h)
- Inlet and outlet size: 1 1/2", 2" MNPT
- Temperature range: up to 130°F (54°C)

Filter and Disc Materials

- Housing and discs: polypropylene
- O-ring: EPDM
- Pressure-testing ports: polypropylene
- Pressure-testing seals: natural rubber BR
- Disc cylinder assembly: polypropylene / PBT
- Spring: stainless steel 304

Filter Cover Tool

- Used to open and remove the 1 1/2" and 2" cover



Dimension & weight

Size	A		B		C		D		WT
	in	mm	in	mm	in	mm	in	mm	lbs
1 1/2"	10.1	257	3.1	80	8.6	220	9.4	240	2.3
2"	10.1	257	3.1	80	10.4	265	10.6	270	2.6



Surface area & flow rate

Size	Filtration surface area		Maximum recommended flow rates		
	in	mm	sq in	cm ²	GPM
1 1/2"	38	59.7	385	60	15
2"	50	75.6	488	80	20

Filtration degree & material

Mesh	Micron	Material	Color
40	400	Polypropylene	Blue
80	180	Polypropylene	Yellow
120	130	Polypropylene	Red
150	100	Polypropylene	Black

How to specify

Model	Description	Color
17-040D	40 mesh • 1 1/2" disc set	Blue
17-041D	80 mesh • 1 1/2" disc set	Yellow
17-042D	120 mesh • 1 1/2" disc set	Red
17-043D	150 mesh • 1 1/2" disc set	Black
17-044D	40 mesh • 2" disc set	Blue
17-045D	80 mesh • 2" disc set	yellow
17-046D	120 mesh • 2" disc set	Red
17-047D	150 mesh • 2" disc set	Black
P75-XXXDLI	1 1/2" (long) MNPT disc filter	
P80-XXXD	2" MNPT disc filter	
17-034	filter cover tool	

XXX = Filter mesh

example:
P80-XXXD 080-80 mesh
P80-120D 120-120 mesh
150-150 mesh