



Manual Disc Filter

Process Filtration



Filter-Concept is keen to deliver highest level of quality product to their customer & with endeavor to that; FCPL has introduced Disc Filters to cater demanding application of various Water and Waste Water with Irrigation requirements. They are very useful for applications where suspended solid load is comparatively high and they have to cater a high flow rate.

Manual Disc Filter is again bifurcated with respect to the available design type, are “Y” Type manual disc filter and “T” type disc filter. We can get bigger flow rate in “T” type disc filter compare to “Y” Type disc filter. Availability of micron rating in Manual Disc Filter is 50 micron, 100 micron, 130 micron, 200 micron, 400 micron.

Operation

The design of Disc filter is suitable to mount the filter system directly in process line. The fluid come inside of disc filter through inlet. Fluid passes through the filter discs from outside to inside flow direction. In general, these discs are made up of polypropylene and stacked on to a supportive core. They have grooves on both the surfaces as per filtration rating requirement. With specific arrangement of filter discs, the solid particles are trapped within grooves on outer surface. The fluid is being filtered and comes out through inner core surface of filter disc arrangement.

As the debris are collected on outer surface of discs, the system shows the pressure difference. When the pressure difference between inlet and outlet comes to a specific value of dirty pressure drop, we have to clean the discs.

Cleaning

One has to unlock the main filter body from the end connection side. By loosening filter disc from inner supportive core of disc arrangement, the discs are being cleaned thoroughly. We can get the range of filtration rating by means of change of discs.

"Y" TYPE MANUAL DISC FILTER:

FILTER SIZE	¾"	1"	1½"	2"
Inlet – Outlet Size	20 NB	25 NB	40 NB	50 NB
Max. Flow Rate* (m³/Hr)	5	6	20	25
Max. Working Pressure	3 - 4 kg/cm²	3 - 4 kg/cm²	3 - 4 kg/cm²	3 - 4 kg/cm²
Max. Working Temp.	70° C	70° C	70° C	70° C
Filtration Rating	120 Mesh	120 Mesh	120 Mesh	120 Mesh
Body Material	Polypropylene	Polypropylene	Polypropylene / Nylon	Polypropylene / Nylon
Disc Material	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Size (mm)	180 x 180 x 100	180 x 180 x 100	250 x 220 x 120	290 x 260 x 150
Empty Wt. (Kg)	0.38 Kg	0.38 Kg	0.97 Kg	1.3 Kg

* Max. Flow rate detail is optimum detail w.r.t. general operating conditions.

Features & Benefits

- » Depth filtration is available.
- » Organic debris can be trapped within grooves of disc filter
- » Completely corrosion resistance and highly durable
- » Easy to handle and clean manually
- » Suitable to cater high flow rates
- » Highly cost effective

Applications

- » Water & waste water filtration
- » Irrigation
- » Chiller line application
- » Air condensation

"T" TYPE MANUAL DISC FILTER

FILTER SIZE	1½"	2"	2½"	3"
Inlet – Outlet Size	40 NB	50 NB	63 NB	80 NB
Max. Flow Rate* (m³/Hr)	20	30	40	50
Max. Working Pressure	3 - 4 kg/cm²	3 - 4.5 kg/cm²	3 - 4.5 kg/cm²	3 - 4.5 kg/cm²
Max. Working Temp.	70° C	70° C	70° C	70° C
Filtration Rating	120 Mesh	120 Mesh	120 Mesh	120 Mesh
Body Material	Polypropylene / Nylon	Polypropylene / Nylon	Polypropylene / Nylon	Polypropylene / Nylon
Disc Material	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Size (mm)	270 x 210 x 135	630 x 350 x 225	630 x 350 x 225	750 x 350 x 225
Empty Wt. (Kg)	0.97 Kg	6.4 Kg	6.4 Kg	7.5 Kg



Filter Concept Pvt. Ltd.

ISO 9001 : 2008
ISO 14001: 2004
OHSAS : 18001 : 2007

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The National Board Of Boiler
& Vessel Inspectors 'R' & NB
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