

ScreenGuard™ Semi-Auto Dual Screen Filters

Installation, Operation & Maintenance Instructions



Netafim 3", 4", and 6" Semi-Automatic plastic double screen filters are design to operate as both primary and secondary filter unit's dependent on the applications. The filters are available with multiple screen area and connection type to address any application needs. The filter body is made from durable plastic material for extra strength and longevity.

Installation

- Use Teflon tape on filter body inlet & outlet threads – do not use pipe dope
- Ensure correct water flow direction (as per arrow marking on filter)
- Flanged configuration includes anti rotation mechanism to allow installing at any required angle. When using flange – align filter position (angle) before tightening the bolts
- **DO NOT ROTATE FILTER AFTER BOLTS ARE IN PLACE**
- Assemble drain valves on the filter covers (O-rings included)
- Place rotation handles on the shafts, align holes and insert the plastic pins
- Ensure adequate space for operation and maintenance of the filter (See dimensional drawings)

Routine Inspection

- The semi-automatic filter includes automatic clogging indicator (F)
- When pressure difference between filter inlet and outlet reaches 7 psi, the red indicator (R) pops out and becomes visible
- This is an indication that the filter should be cleaned
- After cleaning, pressure difference returns to normal value, and the red indicator (R) retreats back automatically

Semi-Auto Cleaning Operation

- Open drain valve (D)
- Rotate handle (H) slowly all the way out and then back in
- NOTE – while working with low quality water or low-pressure application, it is advised to perform the cleaning operation while the downstream valve is closed
- Close drain valve (D)
- Repeat the process on the 2nd half of the filter

Dismantling the Filter

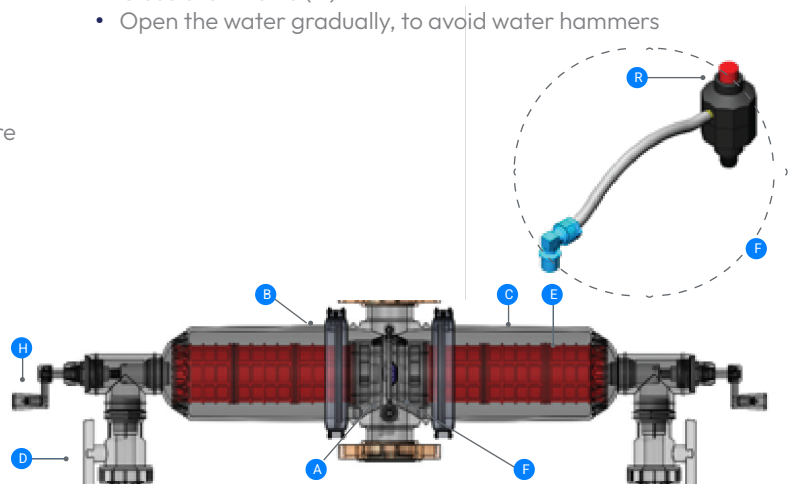
- Turn off the water to the filter
- Open the drain valves (D) to release any remaining pressure
- Open filter body clamps (B) and remove filter covers (C) from filter body (A)
- Pull out screen elements (E) from filter body (A)

Cleaning and Maintenance

- Use pressure hose to thoroughly clean screen elements
- If needed use soft nylon brush to help with cleaning to screen
- Do not use any abrasive tools
- Inspect nozzle cleaning assembly and make sure all nozzles are intact

Assembly

- Ensure the screen element (E) is clean and that both O-rings are in place
- Rotate the suction mechanism clockwise all the way in
- Push screen element (E) into filter body (A)
- Place filter covers (C), make sure the suction pipes are inside the lower bushings
- Push the filter covers (C) to place
- Lock with filter body clamps (B) using the clamp levers
- Close drain valve (D)
- Open the water gradually, to avoid water hammers



WARNINGS

Do not open the filter under pressure
During winter season, drain the filter to avoid freezing damage
Do not backflow water through the filter

Technical Data

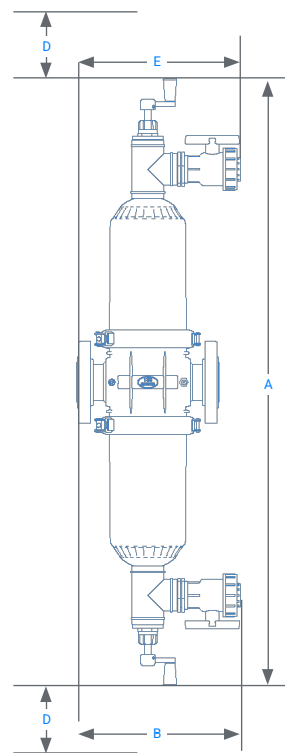
	3"		4"		6"
	REGULAR	JUMBO	REGULAR	JUMBO	JUMBO
MAX WORKING PRESSURE (psi)	145				
MAX RECOMMENDED FLOW (gpm)*	198	220	264	330	528
FILTRATION SURFACE AREA (in²)	375	500	375	500	853
CONNECTION TYPES	NPT/GRV/FLG		GRV/FLG		GRV/FLG
DRAIN VALVE DIAMETER (in)	1.5"				

* Maximum flow rate depends on water quality.

	A (In)	B (In)		D** (In)	WEIGHT (lbs)		
		NPT/GRV	UNF*			NPT/GRV	UNF*
3" REGULAR	60.4	14.4	14.6	13.8	16.1	27.5	29.7
3" JUMBO	70.0			18.3	16.1	30.8	33.0
4" REGULAR	60.4			13.8	16.1	27.5	29.7
4" JUMBO	70.0			18.3	16.1	30.8	33.0
6" JUMBO	99.9	18.2	18.3	23.5	23.5	53.2	55.4

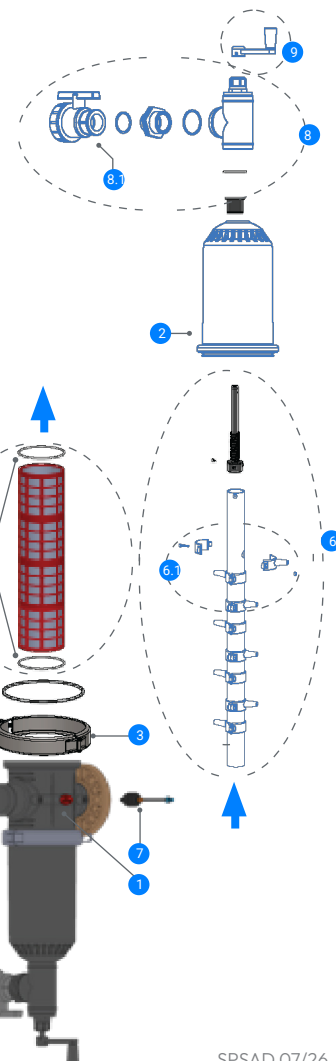
* Flange Thickness = 1.38 inch

** Distance required to open the filter

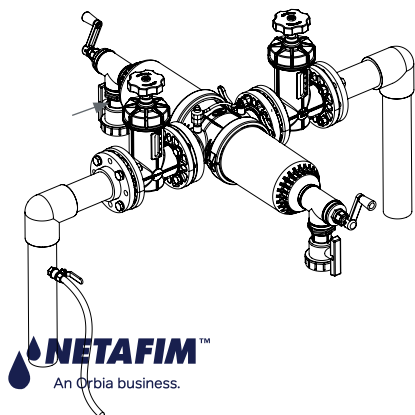


Part List

#	DESCRIPTION	3" REGULAR	3" JUMBO	4" REGULAR	4" JUMBO	6" JUMBO
1	FILTER BODY NPT	71975-000123	71975-000123	-	-	-
	FILTER BODY VIC	71975-000225	71975-000225	71975-000253	71975-000253	-
2	FILTER COVER	71975-000401	71975-000402	71975-000401	71975-000402	71975-000013
3	FILTER CLAMP	71975-000480	71975-000480	71975-000480	71975-000480	-
4	FILTER COVER O-RING	71975-000260	71975-000260	71975-000260	71975-000260	-
4+5.1	FILTER MAIN O-RING KIT	71975-000463	71975-000463	71975-000463	71975-000463	71975-000013
5	FINE SCREEN 200 MESH	71975-000580	71975-000590	71975-000580	71975-000590	-
	FINE SCREEN 150 MESH	71975-000383	71975-000386	71975-000383	71975-000386	71975-000007
	FINE SCREEN 120 MESH	71975-000384	71975-000387	71975-000384	71975-000387	71975-000008
	FINE SCREEN 80 MESH	71975-000385	71975-000388	71975-000385	71975-000388	71975-000009
	FINE SCREEN 50 MESH	71975-000581	71975-000591	71975-000581	71975-000591	-
	FINE SCREEN 35 MESH	71975-000022	71975-000592	71975-000022	71975-000592	-
6	COLLECTOR PIPE KIT	71975-000520	71975-000521	71975-000520	71975-000521	-
6.1	NOZZLE KIT	77450 000450	77450 000450	77450 000450	77450 000450	77450 000450
7	CLOGGING INDICATOR	71975-000560	71975-000560	71975-000560	71975-000560	71975-000560
8	FILTER DRAIN KIT	71975-000522	71975-000522	71975-000522	71975-000522	71975-000522
8.1	FILTER DRAIN VALVE	77450 000103	77450 000103	77450 000103	77450 000103	77450 000103
9	HANDLE KIT	71975-000462	71975-000462	71975-000462	71975-000462	71975-000462
10	3" UNIVERSAL FLANGE KIT	71975-000440	71975-000440	-	-	-
	4" UNIVERSAL FLANGE KIT	-	-	71975-000441	71975-000441	-
	6" UNIVERSAL FLANGE KIT	-	-	-	-	-



Typical Installation



Mesh	Micron	Color
200	80	Black
120	180	Red
80	200	Yellow
50	300	Blue
35	500	Green

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