

Screenguard™ SEMI-AUTO DOUBLE SCREEN FILTERS

Installation, Operation & Maintenance Instructions



Netafim 3" and 4" 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

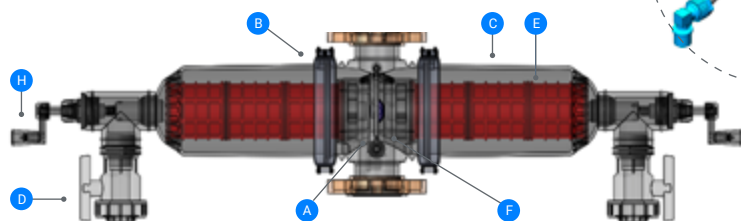
- Use Teflon tape on filter body inlet & outlet threads – do not use pipe dope
- Ensure correct water flow direction (as per arrow marking on filter)
- Flanged configuration includes anti rotation mechanism to allow installing at any required angle. When using flange - align filter position (angle) before 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 0.5 Bar, 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-AUTOMATIC 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 MAINTENING

- 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"	
	REGULAR	JUMBO	REGULAR	JUMBO
MAX WORKING PRESSURE	8 BAR/115 PSI			
MAX RECOMMENDED FLOW*	45 M³/H	50 M³/H	60 M³/H	75 M³/H
FILTRATION SURFACE AREA	2,420 CM²	3,220 CM²	2,420 CM²	3,220 CM²
CONNECTION TYPES	BSP/NPT/UNF/VIC		UNF/VIC	
DRAIN VALVE DIAMETER	1½"			

	A (MM)	B (MM)		D** (MM)	E (MM)	WEIGHT (KG)	
		THREADS /VIC	UNF			THREADS /VIC	UNF
3" REGULAR	1,535	365	370	350	410	12.5	13.5
3" JUMBO	1,775			465		14	15
4" REGULAR	1,535			350		12.5	13.5
4" JUMBO	1,775			465		14	15

* Maximum flow rate depends on water quality | Flange thickness - 35mm

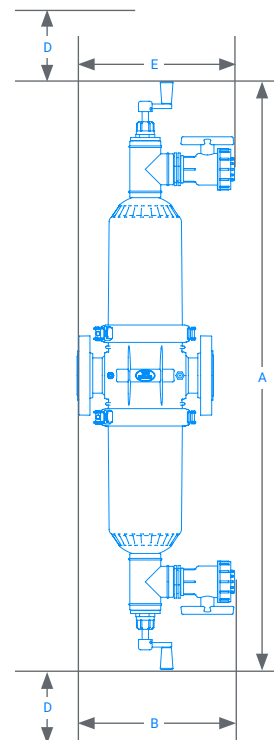
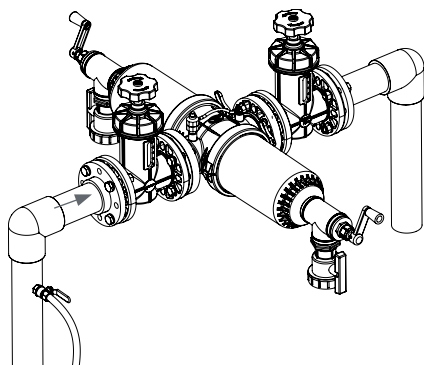
** Distance required to open the filter

→ PART LIST

#	DESCRIPTION	3" DOUBLE REGULAR	3" DOUBLE JUMBO	4" DOUBLE REGULAR	4" DOUBLE JUMBO
1	FILTER BODY BSPT	71975 000122	71975 000122	-	-
	FILTER BODY NPT	71975 000123	71975 000123	-	-
	FILTER BODY FLANGED	71975 000254	71975 000254	71975 000252	71975 000252
	FILTER BODY VIC	71975 000255	71975 000255	71975 000253	71975 000253
2^	FILTER COVER	71975 000401	71975 000402	71975 000401	71975 000402
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
5^	FINE SCREEN 100 MIC	71975 000383	71975 000386	71975 000383	71975 000386
	FINE SCREEN 130 MIC	71975 000384	71975 000387	71975 000384	71975 000387
	FINE SCREEN 200 MIC	71975 000385	71975 000388	71975 000385	71975 000388
6^	COLLECTOR PIPE KIT FOR S.AUTO FILTER	71975 000520	71975 000521	71975 000520	71975 000521
6.1^	NOZZLE KIT FOR S.AUTO FILTER	71975 000450	71975 000450	71975 000450	71975 000450
7	CLOGGING INDICATOR	71975 000560	71975 000560	71975 000560	71975 000560
8^	FILTER DRAIN KIT	71975 000522	71975 000522	71975 000522	71975 000522
8.1^	FILTER DRAIN VALVE	77450-000103	77450 000103	77450 000103	77450 000103
9^	HANDLE KIT FOR S.AUTO FILTER	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

^ The above parts are assembled in both sides of the double filter

→ TYPICAL INSTALLATION



MESH	MICRON	COLOR
150	100	BLACK
120	130	RED
80	200	YELLOW

