



ROTOR

Self-cleaning filter with Flex-Suction skids
Patent filed



**MAX
PRESSURE**
10 bar



**FILTRATION
DEGREE**
10-2000 micron



**MAX FLOW
RATE**
30-600 m³/h



**FILTER
TYPE**
Automatic

TYPE



AUTOMATIC

CLEANING

FLEXIBLE
SUCTION PAD

CHARACTERISTICS

NON - STOP
FLOWDIFFERENTIAL
PRESSURE KIT

APPLICATIONS



MUNICIPALITIES



HVAC/R



DESALINATION



INDUSTRY

SEA WATER
TREATMENTWASTE WATER
TREATMENT

MANOMETER

Inlet-outlet manometer included as standard for visual pressure check.

IN >

Raw water inlet.

OUT >

Filtered water outlet.

DRAIN SHAFT

PVC drain shaft communicates Flex-Suction skids with drain chamber.

FILTRATION ELEMENT

Filtration cartridge available in polyester / nylon with AISI 316L / DUPLEX SAF 2205 / TITANIUM support, or entirely in AISI 316L.

FLEX-SUCTION SKIDS

Cleaning of filtration element is done by "Suction Scanning" technology. Flex-Suction skids generate the principle of venturi tube and remove dirt from mesh. [patent SATI S.r.l.]

GASKET

Lid gasket in EPDM or, alternatively, in NBR. Also available in VITON, PTFE, SILICON for special applications.

MOTION SYSTEM

Automatic motion system with PP drain chamber and gearmotor.

HYDROVALVE

PVC drain hydrovalve connected to Flex-Suction skids through the hollow shaft for dirt discharge during the washing phase and for possible drain in case of maintenance.

TECHNICAL SPECIFICATIONS

ROTOR

GENERAL DATA

FILTER SIZE	/10A	/20	/35	/40P	/50	/80
MAX FLOW RATE	100 m³/h 440 US gpm	120 m³/h 528 US gpm	230 m³/h 1012 US gpm	400 m³/h 1761 US gpm	500 m³/h 2201 US gpm	600 m³/h 2641 US gpm
FILTRATION AREA	1500 cm² 233 in²	2200 cm² 341 in²	3300 cm² 512 in²	5400 cm² 837 in²	6800 cm² 1100 in²	8100 cm² 1256 in²
FILTRATION DEGREE	2000 - 1000 - 810 - 580 - 400 - 200 - 120 - 80 - 53 - 25 - 10 µm REPS: 800 - 400 - 200 - 120 - 55 µm					
MIN PRESSURE	2 bar (29 psi)					
MAX PRESSURE	10 bar (145 psi)					
MAX TEMPERATURE	60°C (140° F)					
SALINITY	< 10.000 PPM TDS					
ACIDITY	pH 3 ÷ 9					

CLEANING CYCLE

MIN CLEANING CYCLE FLOW	6 m³/h 40 US gpm	9 m³/h 57 US gpm	9 m³/h 57 US gpm	15 m³/h 88 US gpm	20 m³/h 110 US gpm	20 m³/h 110 US gpm
FILTER DRAIN FLOW RATE	15 L	25 L	25 L	66 L	90 L	90 L
CLEANING CYCLE TIME	8 - 16 s					
DRAIN VALVE (BSPP)	1" 1/2					
CLEANING CYCLE START	Differential pressure (0.8 bar), time intervals, manually					

FILTRATION ELEMENT

FILTRATION MESH	Polyester / nylon fabric sandwich cartridge Triple-layer REPS cartridge (AISI 316L)
CARTRIDGE GASKETS	EPDM / NBR / VITON / PTFE / SILICON

POWER SUPPLY AND CONTROL

POWER SUPPLY	230 Vac 50/60Hz
CONTROL VOLTAGE	230 Vac

MATERIALS

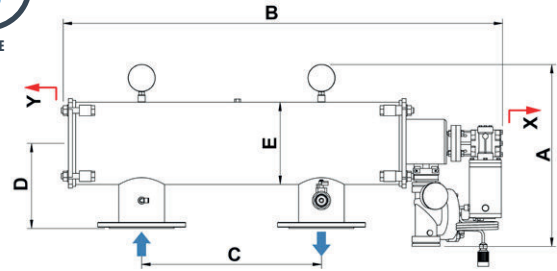
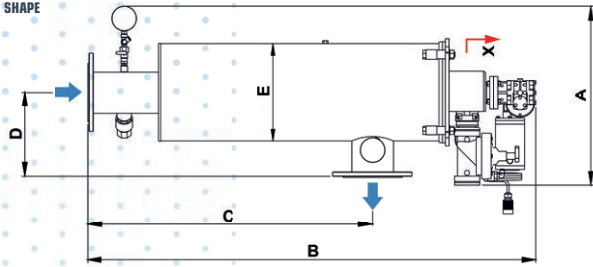
FILTER BODY	AISI 304L / AISI 316L / DUPLEX SAF 2205
LID	AISI 304L / AISI 316L / DUPLEX SAF 2205
MESH SUPPORT	AISI 316L / DUPLEX SAF 2205 / TITANIUM
GASKETS	EPDM / NBR / VITON / PTFE / SILICON
SURFACE TREATMENT	Micro shot-peening and passivation

ON REQUEST

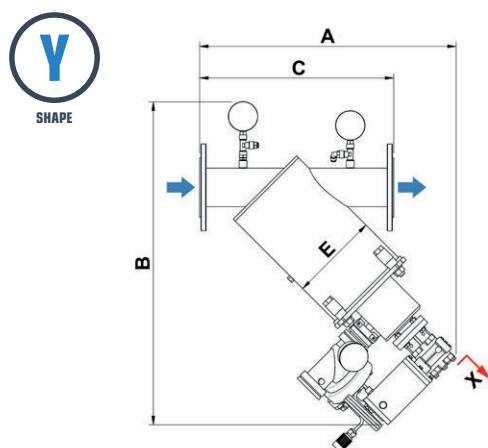
- Other filtration degrees;
- Other constructive pressures.

DIMENSIONS

ROTOR



MODEL		IN/OUT	DRAIN	FILTRATION AREA		Qmax*		DIMENSIONS (mm)							WEIGHT** kg
				cm²	in²	m³/h	US gpm	A	B	C	D	E	X	Y	
L	2"/10A	2"BSPP	1"BSPP	1500	233	30	132	490	810	296	203	206	500	-	24
	3"/10A	3"BSPP	1"BSPP	1500	233	60	264	490	810	296	203	206	500	-	25
	80/10A	DN80	1"BSPP	1500	233	60	264	490	810	296	203	206	500	-	29
	100/10A	DN100	1"BSPP	1500	233	100	440	500	860	346	203	206	500	-	30
	3"/20	3"BSPP	1½"BSPP	2200	341	60	264	490	965	456	203	206	650	-	28
	80/20	DN80	1½"BSPP	2200	341	60	264	490	965	456	203	206	650	-	32
	100/20	DN100	1½"BSPP	2200	341	120	528	500	1015	506	203	206	650	-	33
	100/35	DN100	1½"BSPP	3300	512	130	572	500	1015	506	236	273	650	-	42
	150/35	DN150	1½"BSPP	3300	512	230	1012	530	1015	506	236	273	650	-	46
	100/40P	DN100	1½"BSPP	5400	837	140	616	500	1295	796	236	273	1000	-	52
	150/40P	DN150	1½"BSPP	5400	837	250	1100	530	1295	796	236	273	1000	-	56
	200/40P	DN200	1½"BSPP	5400	837	400	1761	550	1295	796	236	273	1000	-	60
	200/50	DN200	1½"BSPP	6800	1100	450	1981	550	1500	900	236	273	1200	-	68
	250/50	DN250	1½"BSPP	6800	1100	500	2201	640	1510	900	312	324	1200	-	87
	200/80	DN200	1½"BSPP	8100	1256	450	1981	640	1510	900	328	356	1200	-	90
	250/80	DN250	1½"BSPP	8100	1256	600	2641	655	1510	900	328	356	1200	-	105
O	2"/10A	2"BSPP	1"BSPP	1500	233	30	132	490	1175	450	213	206	500	650	38
	3"/10A	3"BSPP	1"BSPP	1500	233	60	264	490	1175	450	213	206	500	650	38
	80/10A	DN80	1"BSPP	1500	233	60	264	490	1175	450	213	206	500	650	43
	100/10A	DN100	1"BSPP	1500	233	100	440	490	1175	450	213	206	500	650	44
	3"/20	3"BSPP	1½"BSPP	2200	341	60	264	490	1175	450	213	206	650	500	39
	80/20	DN80	1½"BSPP	2200	341	60	264	490	1175	450	213	206	650	500	43
	100/20	DN100	1½"BSPP	2200	341	120	528	490	1175	450	213	206	650	500	44
	100/35	DN100	1½"BSPP	3300	512	130	572	490	1640	640	246	273	650	1000	72
	150/35	DN150	1½"BSPP	3300	512	230	1012	490	1640	640	246	273	650	1000	76
	100/40P	DN100	1½"BSPP	5400	837	140	616	490	1610	640	246	273	1000	650	73
	150/40P	DN150	1½"BSPP	5400	837	250	1100	490	1610	640	246	273	1000	650	78
	200/40P	DN200	1½"BSPP	5400	837	400	1761	525	1610	640	286	273	1000	650	83
	200/50	DN200	1½"BSPP	6800	1100	450	1981	525	1810	670	286	273	1200	650	90
	250/50	DN250	1½"BSPP	6800	1100	500	2201	580	1830	670	317	324	1200	650	125
	200/80	DN200	1½"BSPP	8100	1256	450	1981	580	1830	900	328	356	1200	650	135
	250/80	DN250	1½"BSPP	8100	1256	600	2641	580	1830	900	328	356	1200	650	140



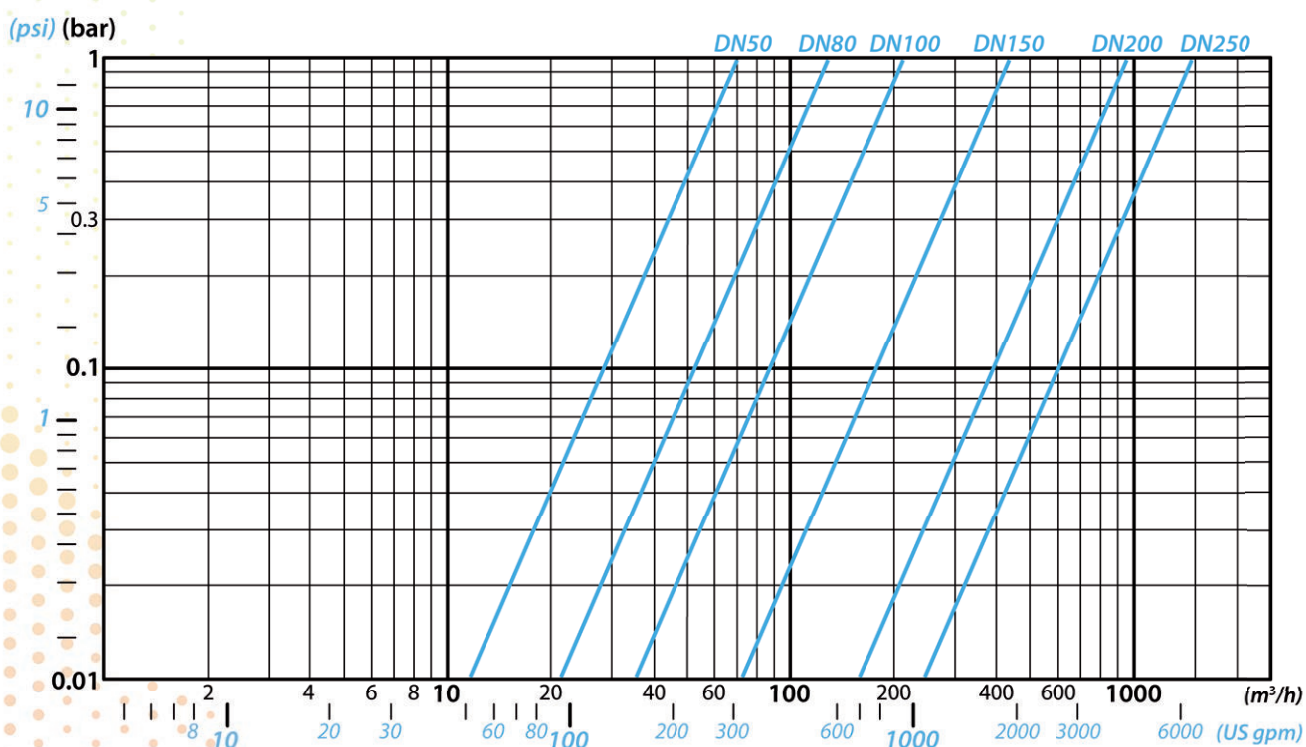
MODEL			IN/OUT	DRAIN	FILTRATION AREA		Qmax*		DIMENSIONS (mm)						WEIGHT** kg
					cm²	in²	m³/h	US gpm	A	B	C	D	E	X	
Y	2"/10A	2"BSPP	1"BSPP	1500	233	30	132	720	730	400	-	206	500	22	
	3"/10A	3"BSPP	1"BSPP	1500	233	60	264	745	740	450	-	206	500	23	
	80/10A	DN80	1"BSPP	1500	233	60	264	750	740	450	-	206	500	28	
	100/10A	DN100	1"BSPP	1500	233	100	440	785	760	555	-	206	500	29	
	3"/20	3"BSPP	1½"BSPP	2200	341	60	264	860	850	450	-	206	650	27	
	80/20	DN80	1½"BSPP	2200	341	60	264	860	850	450	-	206	650	31	
	100/20	DN100	1½"BSPP	2200	341	120	528	900	860	550	-	206	650	33	
	100/35	DN100	1½"BSPP	3300	512	130	572	900	864	600	-	273	650	41	
	150/35	DN150	1½"BSPP	3300	512	230	1012	970	890	745	-	273	650	47	
	100/40P	DN100	1½"BSPP	5400	837	140	616	970	1140	600	-	273	1000	51	
	150/40P	DN150	1½"BSPP	5400	837	250	1100	1045	1160	745	-	273	1000	57	

Dimensions are indicative. We advise to contact SATI technical support for further information.

* Qmax flow rates are referred to filters with 120 µm filtration degree and 20 °C, NTU < 1 water.

** Weight excluding automation and packaging.

PRESSURE LOSS



Pressure drop is referred to filters with 120 µm filtration degree and clean water.