



SIMPLEX

Cartridge filter



**MAX
PRESSURE**
10 bar



**FILTRATION
DEGREE**
10-2000 micron



**MAX FLOW
RATE**
10-600 m³/h



**FILTER
TYPE**
Manual

TYPE



MANUAL

CLEANING



BY OPERATOR

CHARACTERISTICS

POTABLE
WATERDIFFERENTIAL
PRESSURE KIT

QUICK LOCK

MAGNETIC
KIT

APPLICATIONS



INDUSTRY



MUNICIPALITIES

POOLS
& SPORT

DESALINATION

WASTE WATER
TREATMENT

IN >

Raw water inlet.

MANOMETER

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

OUT >

Filtered water outlet.

FILTRATION ELEMENT

Filtration cartridge available in polyester / nylon with AISI 316L / DUPLEX SAF2205 / TITANIUM support, or entirely in AISI 316L.

FASTENING SYSTEM

Locking system with bushes welded onto the filter body, clamping with bolt and nut in AISI 304L and AISI 316L stainless steel. Eyebolt and screw available on request.

GASKET

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

DRAIN VALVE

Drain valve in BRASS or AISI 316L stainless steel, downstream of the filtration element to discharge the filter and recover the filtrate in case of ordinary or extraordinary maintenance.

***Non-standard features available upon request.**

The company reserves the right to make partial or total changes to products without prior notice and declines all liability.

TECHNICAL SPECIFICATIONS

SIMPLEX

GENERAL DATA

FILTER SIZE	/5	/10A	/20	/35	/40P	/50	/80
MAX FLOW RATE	15 m³/h 66 US gpm	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	600 cm² 93 in²	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						
MAX PRESSURE	10 bar (145 psi)						
MAX TEMPERATURE	80°C (176°F)						
SALINITY	< 10.000 ppm TDS						
ACIDITY	pH 3 ÷ 9						

FILTRATION ELEMENT

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

MATERIALS

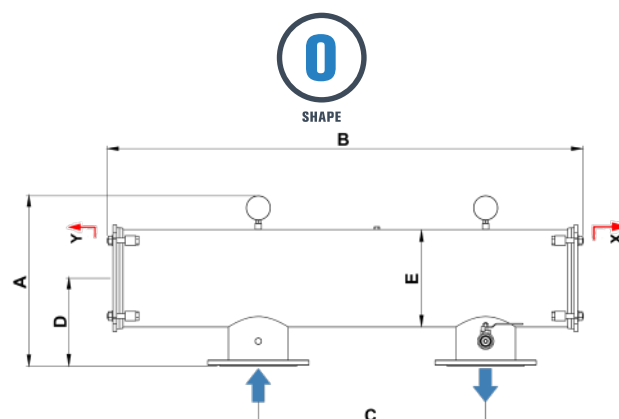
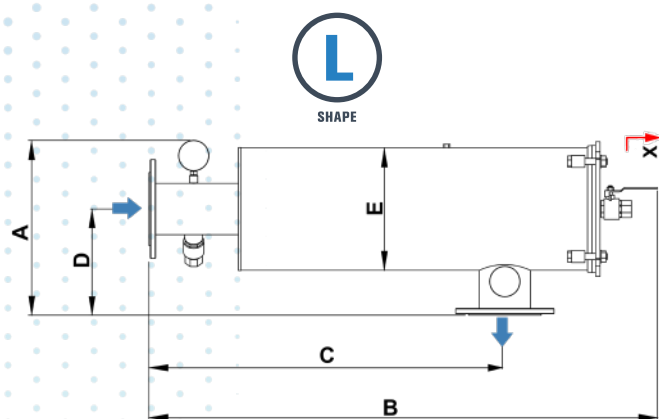
FILTER BODY	AISI 304L / AISI 316L / DUPLEX SAF 2205
LID	AISI 304L / AISI 316L / DUPLEX SAF 2205
MESH SUPPORT	AISI 316L / DUPLEX SAF 2205 / TITANIUM
BODY GASKETS	EPDM / NBR / VITON / PTFE / SILICON
SURFACE TREATMENT	Pickling and passivation

ON REQUEST

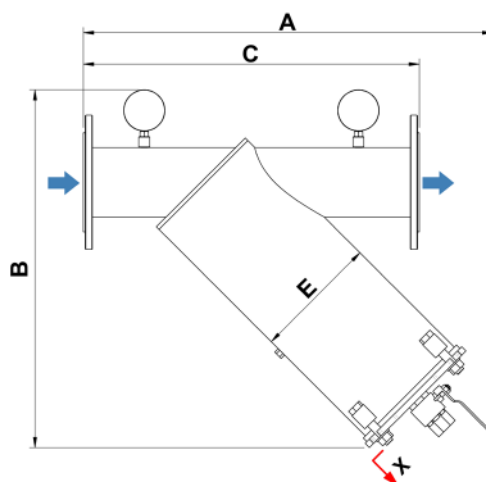
- Other filtration degrees;
- Other constructive pressures;
- Other filtration sizes.

DIMENSIONS

SIMPLEX



MODEL	IN/OUT	DRAIN	FILTRATION AREA		Qmax*		DIMENSIONS (mm)							WEIGHT** kg
			cm ²	in ²	m ³ /h	US gpm	A	B	C	D	E	X	Y	
L	1"/5	1"BSPP	600	93	10	44	430	385	280	-	114	300	-	7
	1" 1/2 /5	1" 1/2 BSPP	600	93	15	66	430	390	275	-	114	300	-	8
	2"/10A	2"BSPP	1500	233	30	132	315	625	296	203	206	500	-	16
	3"/10A	3"BSPP	1500	233	60	264	315	625	296	203	206	500	-	16
	80/10A	DN80	1500	233	60	264	345	625	296	203	206	500	-	21
	100/10A	DN100	1500	233	100	440	355	675	346	203	206	500	-	22
	3"/20	3"BSPP	2200	341	60	264	345	800	456	203	206	650	-	20
	80/20	DN80	2200	341	60	264	345	800	456	203	206	650	-	24
	100/20	DN100	2200	341	120	528	355	830	506	203	206	650	-	25
	100/35	DN100	3300	512	130	572	390	830	506	236	273	650	-	34
	150/35	DN150	3300	512	230	1012	415	830	506	236	273	650	-	37
	100/40P	DN100	5400	837	140	616	390	1140	796	236	273	1000	-	39
	150/40P	DN150	5400	837	250	1100	415	1140	796	236	273	1000	-	44
	200/40P	DN200	5400	837	400	1761	440	1140	796	236	273	1000	-	48
	200/50	DN200	6800	1100	450	1981	445	1340	900	236	273	1200	-	50
	250/50	DN250	6800	1100	500	2201	545	1340	900	312	324	1200	-	78
	200/80	DN200	8100	1256	450	1981	545	1340	900	328	356	1200	-	82
	250/80	DN250	8100	1256	600	2641	545	1340	900	328	356	1200	-	86
O	2"/10A	2"BSPP	1500	233	30	132	410	880	450	213	206	500	650	28
	3"/10A	3"BSPP	1500	233	60	264	410	880	450	213	206	500	650	30
	80/10A	DN80	1500	233	60	264	410	880	450	213	206	500	650	34
	100/10A	DN100	1500	233	100	440	410	880	450	213	206	500	650	35
	3"/20	3"BSPP	2200	341	60	264	410	880	450	213	206	650	500	30
	80/20	DN80	2200	341	60	264	410	880	450	213	206	650	500	34
	100/20	DN100	2200	341	120	528	410	880	450	213	206	650	500	35
	100/35	DN100	3300	512	130	572	480	1340	640	246	273	650	500	57
	150/35	DN150	3300	512	230	1012	480	1340	640	246	273	650	500	59
	100/40P	DN100	5400	837	140	616	480	1340	640	246	273	1000	650	58
	150/40P	DN150	5400	837	250	1100	480	1340	640	246	273	1000	650	60
	200/40P	DN200	5400	837	400	1761	520	1340	640	286	273	1000	650	66
	200/50	DN200	6800	1100	450	1981	520	1540	670	286	273	1200	650	73
	250/50	DN250	6800	1100	500	2201	575	1570	670	317	324	1200	650	105
	200/80	DN200	8100	1256	450	1981	550	1570	900	328	356	1200	650	118
	250/80	DN250	8100	1256	600	2641	550	1570	900	328	356	1200	650	120



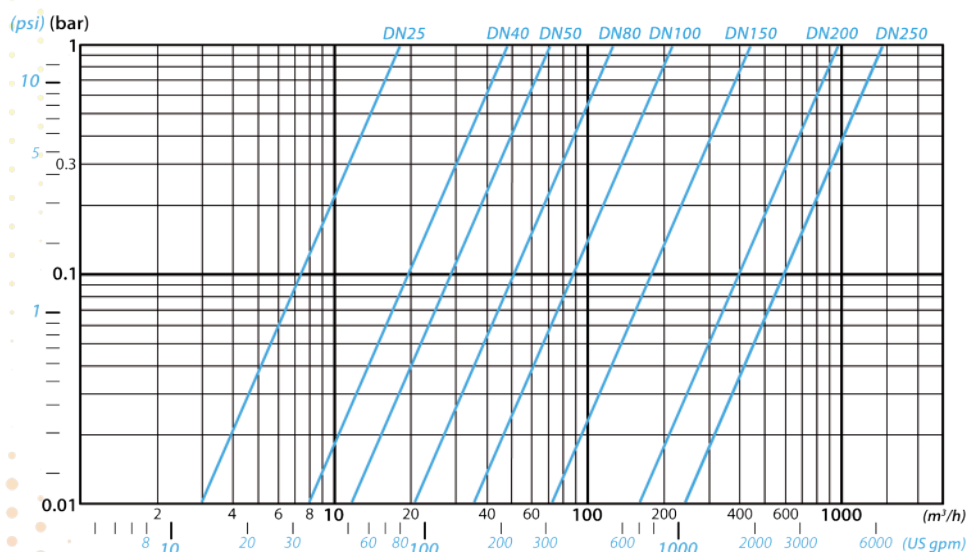
MODEL	IN/OUT	DRAIN	FILTRATION AREA		Qmax*		DIMENSIONS (mm)						WEIGHT** kg	
			cm²	in²	m³/h	US gpm	A	B	C	D	E	X		
Y	1"/5	1"BSPP	1"BSPP	600	93	10	44	225	520	200	157	114	300	7
	1" 1/2 /5	1" 1/2 BSPP	1"BSPP	600	93	15	66	225	520	200	157	114	300	8
	2"/10A	2"BSPP	1"BSPP	1500	233	30	132	500	450	400	-	206	500	15
	3"/10A	3"BSPP	1"BSPP	1500	233	60	264	520	465	450	-	206	500	17
	80/10A	DN80	1"BSPP	1500	233	60	264	520	465	450	-	206	500	20
	100/10A	DN100	1"BSPP	1500	233	100	440	560	480	555	-	206	500	22
	3"/20	3"BSPP	1"BSPP	2200	341	60	264	630	570	450	-	206	650	20
	80/20	DN80	1"BSPP	2200	341	60	264	630	570	450	-	206	650	24
	100/20	DN100	1"BSPP	2200	341	120	528	670	590	555	-	206	650	25
	100/35	DN100	1"BSPP	3300	512	130	572	670	610	600	-	273	650	34
	150/35	DN150	1"BSPP	3300	512	230	1012	750	640	750	-	273	650	40
	100/40P	DN100	1"BSPP	5400	837	140	616	890	830	600	-	273	1000	42
	150/40P	DN150	1"BSPP	5400	837	250	1100	960	860	750	-	273	1000	45

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 filter mesh and clean water.