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Self-cleaning filter with
pressurized water jets
Covered by patent application



**MAX
PRESSURE**
10 bar



**FILTRATION
DEGREE**
10-810 micron



**MAX FLOW
RATE**
8-30 m³/h



**FILTER
TYPE**
Automatic

TYPE



AUTOMATIC

CLEANING

SPRAY
NOZZLES

CHARACTERISTICS



STOP FLOW

DIFFERENTIAL
PRESSURE KIT

APPLICATIONS



INDUSTRY



HVAC/R

COOLING
WATERWASTE WATER
TREATMENT

VENT VALVE

Automatic PP vent valve included on all models.

FILTRATION ELEMENT

Filtration cartridge available either in polyester/nylon with AISI 316L support or entirely in AISI 316L.

PRESSURE TRANSMITTER

Inlet-outlet pressure transmitter included as standard for pressure check.

CHECK VALVE

Check valve avoids potential counter flow during washing phase. AISI 304 or AISI 316 stainless steel versions included in supply.

IN >

Raw water inlet.

WATERJET SHUTTER

Exclusive cleaning system with PVC shutter especially engineered to ensure efficient internal filtration element cleaning (Patent by SATI s.r.l.).

OUT >

Filtered water outlet.

GASKET

Lid gasket in EPDM or, alternatively, in NBR.

EMPTYING AND DRAIN

ACQUASPEED drain connection ensures water output during washing phase.

SUPPLY VALVE AND PISTON

Water-fed valve ensures piston movement.

TECHNICAL SPECIFICATIONS

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GENERAL DATA

FILTER SIZE	F1	F2
MAX FLOW RATE	16 m³/h - 70 US gpm	30 m³/h - 132 US gpm
FILTRATION AREA	280 cm² / 43 in²	530 cm² / 82 in²
FILTRATION DEGREE	810 - 400 - 200 - 120 - 80 - 53 - 25 - 10 µm / REPS: 110 - 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	2 m³/h	2,5 m³/h
FILTER DRAIN FLOW RATE	5,5 L	7 L
CLEANING CYCLE TIME	8 - 10 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 cartridge -Double-layer REPS cartridge (AISI 316)
CARTRIDGE GASKETS	NBR

POWER SUPPLY AND CONTROL

POWER SUPPLY	230 Vac 50/60 Hz
CONTROL VOLTAGE	12 Vdc

MATERIALS

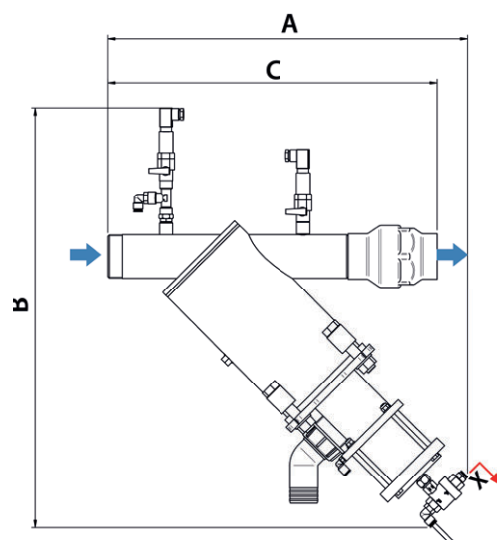
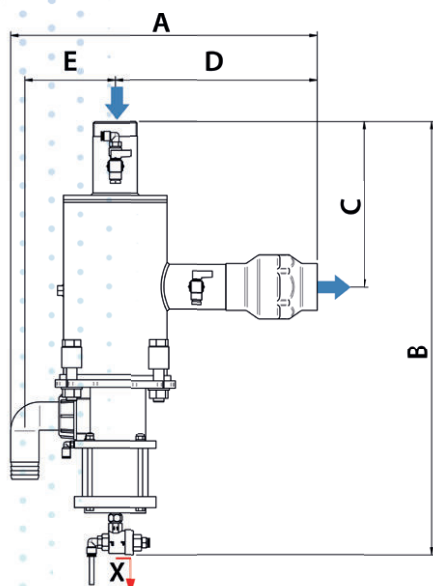
FILTER BODY	AISI 304L / AISI 316L / DUPLEX SAF 2205
LID	AISI 304L / AISI 316L / DUPLEX SAF 2205
MESH SUPPORT	AISI 316L
GASKETS	EPDM / NBR
SURFACE TREATMENT	Pickling

ON REQUEST

- Other filtration degrees;
- Other pressure range.

DIMENSIONS

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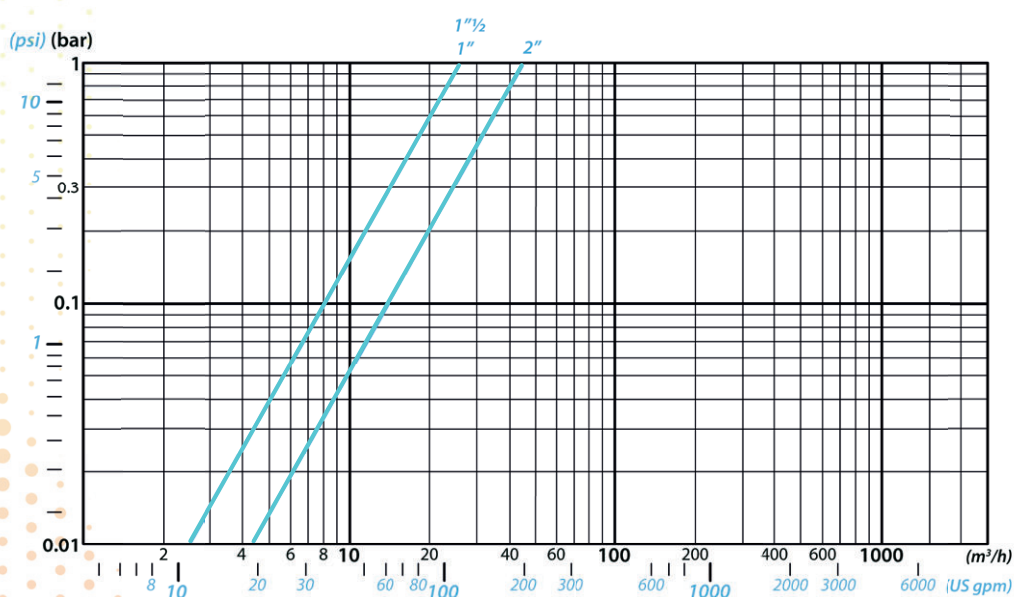
MODEL	IN/OUT	DRAIN	FILTRATION AREA		Qmax*		DIMENSIONS (mm)						WEIGHT** Kg
			cm ²	in ²	m ³ /h	US gpm	A	B	C	D	E	X	
AS F1 L 1"	1" BSPP	1" 1/2	280	43	8	35	400	550	185	255	125	400	10
AS F1 L 1"1/2	1"1/2 BSPP	1" 1/2	280	43	16	70	400	550	185	255	125	400	10
AS F2 L 2"	2" BSPP	1" 1/2	530	82	30	132	415	590	225	275	125	450	15
AS F1 Y 1"	1" BSPP	1" 1/2	280	43	8	35	425	495	355	-	-	400	10
AS F1 Y 1"1/2	1"1/2 BSPP	1" 1/2	280	43	16	70	440	520	370	-	-	400	10
AS F2 Y 2"	2" BSPP	1" 1/2	530	82	30	132	455	555	455	-	-	450	15

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.