

AUTOMATIC STAINLESS STEEL PRESSURISED WATER JET FILTERS - FAA

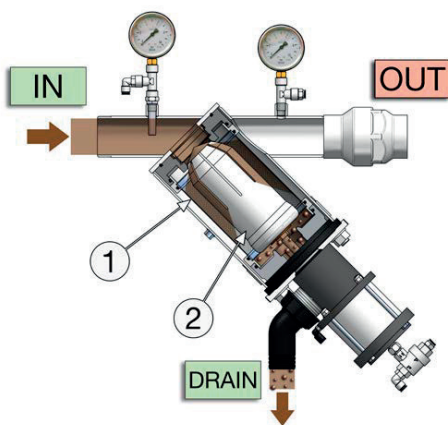
FAA filters are self-cleaning mesh filters for low flow rates (< 40 m³/h) with stainless steel bodies, and are equipped with an internal filter cartridge which is automatically cleaned by our proprietary system that transforms incoming water into pressurised tangential blade jets. Cleaning cycles last a few seconds during which the filtrate supply is stopped. The filters are supplied with a non-return valve automation unit at the outlet and two pressure gauges.

SPECIFICATIONS

- Construction in Stainless Steel AISI 304 (M1) or 316 (M2)
- Filtration from 53 to 400 µm
- Automatic cleaning system using spray nozzles
- Polyester/AISI 316 filter elements
- Fittings 1" to 2"
- Compliant with PED Directive 2014/68/EU (Pressure Equipment)
- Compliant with Directive 2006/37/EC (applicable to installation if filter is connected to a PLC system)

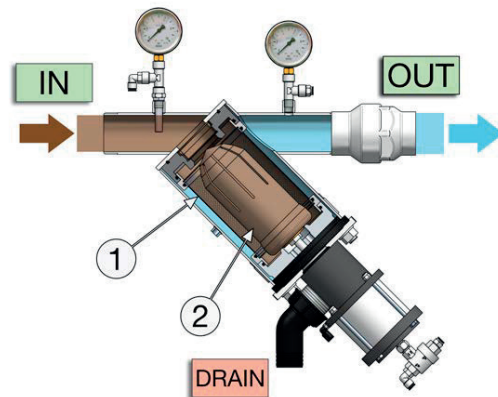
Technical data

- Max. operating pressure: 10 bar
- Max. temperature: 60°C
- Minimum cleaning pressure: 2.0 bar
- Salinity and Acidity: <10000 ppm TDS, pH 3-9
- Connections: BSP ANSI 150
NPT threaded



Filtration

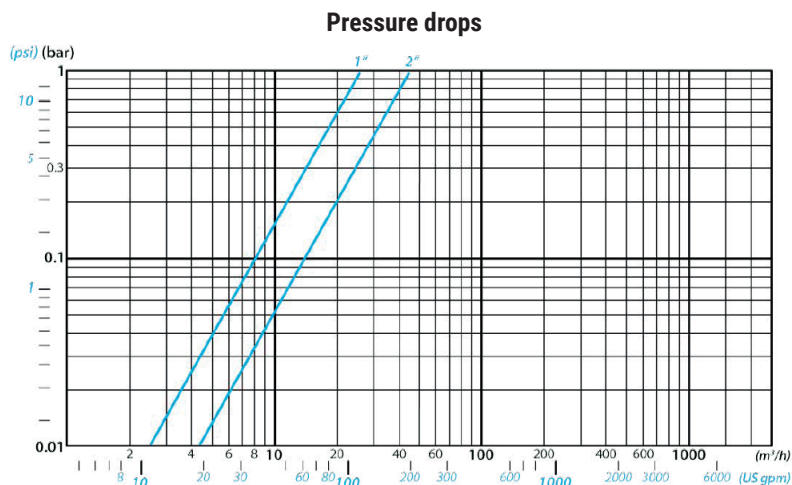
The water to be treated feeds the filter via the connection (IN), flows through the filter element (1) which retains the suspended solids internally and flows filtered out of the outlet (OUT).



Cleaning

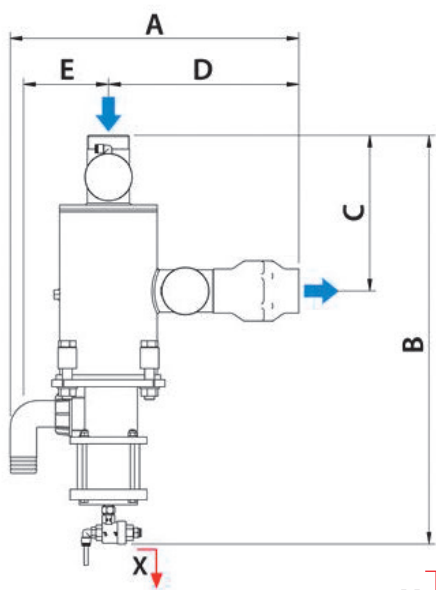
Cleaning of the filter cartridge is performed automatically when the gradual build-up of retained solids causes an excessive pressure difference between the inlet and outlet. This is detected by the supplied pressure switch, which triggers the cycle to start.

A flared-head actuator with longitudinal grooves (2) is pushed by the untreated water pressure towards the inlet, forcing the flow into the grooves, which produce a series of tangential blade jets that regenerate the cartridge, discharging (DRAIN) all retained solids.

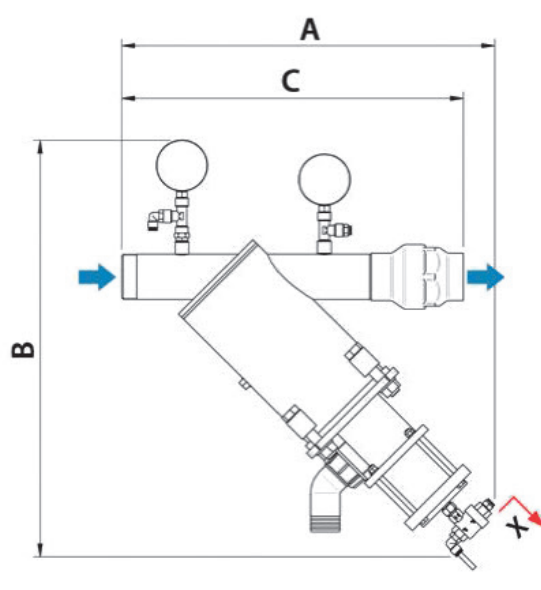


Pressure drops refer to filters with 120 µm filter mesh and clean water

"L" CONFIGURATION



"Y" CONFIGURATION



X ↓ Disassembly gap

Model	Filtering Surface Area	Max. flow rate*	Connections		Dimensions (mm)					Weight	
	cm ²	m ³ /h	In/Out	Drain	A	B	C	D	E	X	kg
FAA L 1"	280	8	1"	1" 1/2	365	550	185	255	125	400	10
FAA L 2"	530	30	2"	1" 1/2	400	580	225	275	125	450	15
FAA Y 1"	280	8	1"	1" 1/2	425	495	355	-	-	400	10
FAA Y 2"	530	30	2"	1" 1/2	455	555	455	-	-	450	15

*Flow rates refer to filters with 120 µm filter mesh and water at 20 °C with NTU < 1.