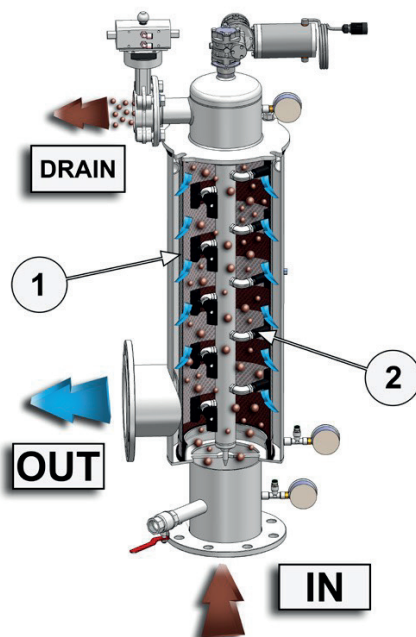


## **AUTOMATIC STAINLESS STEEL FILTERS WITH SUCTION PADS – FAR-HP**

FAR-HP filters are self-cleaning mesh filters suitable for the treatment of fluids containing suspended solids, including those of a colloidal nature. Special suction pads ensure effective cleaning of the filter element with low water consumption and no interruption in flow. FAR filters are unlike other filters because they have a stainless steel body and cleaning unit, which makes them highly resistant and durable. Depending on installation requirements, 3 different construction configurations Y, L and O can be selected. The inner cartridge is available with filter fabric in polyester (PES) sandwiched between two AISI 316 stainless steel mesh supports or completely in AISI 316 stainless steel in the REPS triple layer version. These solutions provide a range of filtration from 810 up to 25 µm. The filters are supplied ready for use with valves, pressure gauges and electronic controller.

### SPECIFICATIONS

- Construction in Stainless Steel AISI 304 (M1) or 316 (M2)
- Filtration from 25 to 810 µm
- Automatic cleaning system using suction pads
- **Cleaning with no interruption in flow**
- Polyester/AISI 316 filter elements
- Threaded connections (B) 2" to 3"
- Flanged couplings (F) ISO PN16 from DN80 to DN200
- 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 /16 bar option
- Max. temperature: 80°C
- Minimum cleaning pressure: 3.0 bar
- Salinity and Acidity: <10000 ppm TDS, pH 3-9
- Connections: ISO PN16/10 – BSP  
ANSI 150 -NPT

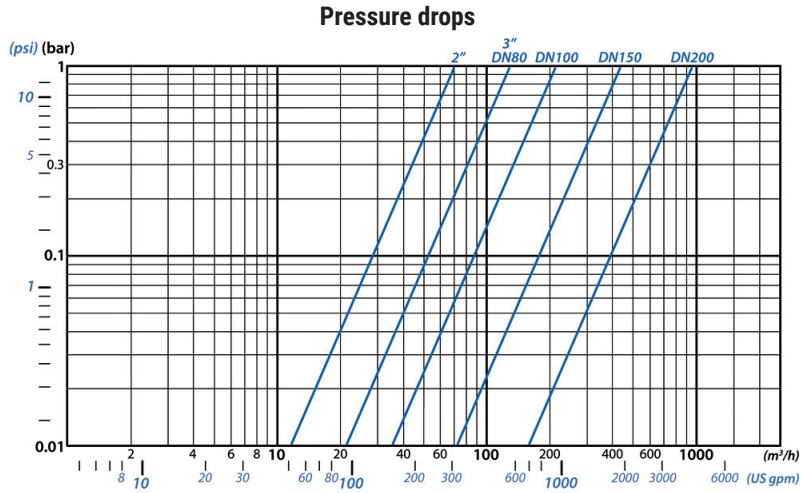
### Filtration

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

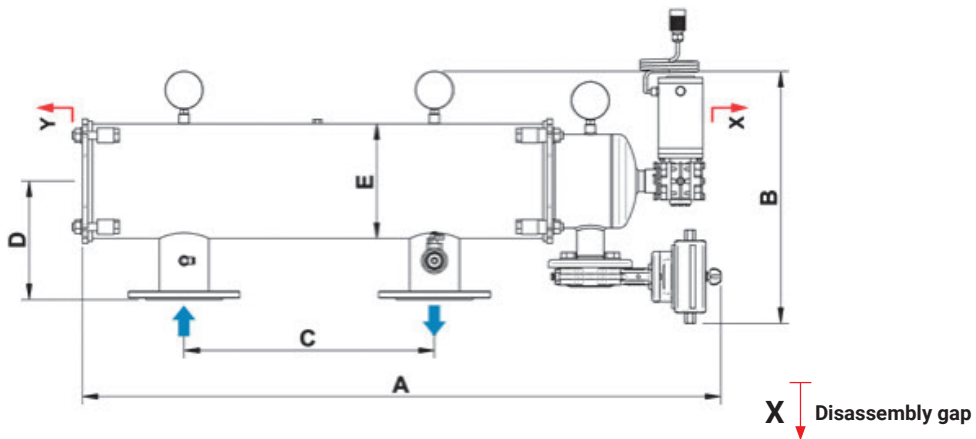
Cleaning of the filter element can be carried out at predetermined time intervals or when the gradual build-up of suspended solids causes an excessive pressure difference (0.8 bar) between filter inlet and outlet. During this stage the drain valve (DRAIN) opens, triggering suction of the pads (2) which are simultaneously rotated.

A tight fit between the suction pads and the inner surface of the filter cartridge ensures full suction of the solids retained by the filter, expelling them externally.



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

**"O" CONFIGURATION**

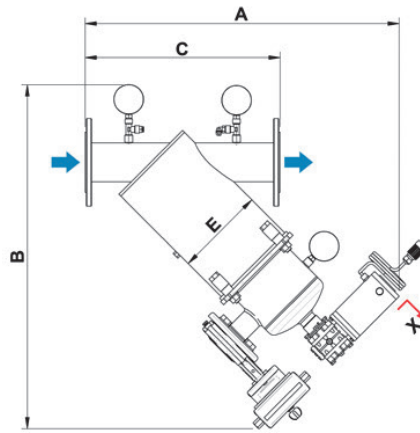


Model	Filtering Surface Area	Max. flow rate*	Connections		Dimensions (mm)						Weight	
	cm <sup>2</sup>		In/Out	Drain	A	B	C	D	E	X		Y
FAR-HP O 2"/2	1500	40	2"	DN40	1150	450	450	213	206	500	650	41
FAR-HP O 3"/2	1500	80	3"	DN40	1150	450	450	213	206	500	650	41
FAR-HP O 80/2	1500	80	DN80	DN40	1150	450	450	213	206	500	650	45
FAR-HP O 100/2	1500	100	DN100	DN40	1150	450	450	213	206	500	650	46
FAR-HP O 3"/3	2200	80	3"	DN40	1150	450	450	213	206	650	500	42
FAR-HP O 80/3	2200	80	DN80	DN40	1150	450	450	213	206	650	500	47
FAR-HP O 100/3	2200	130	DN100	DN40	1150	450	450	213	206	650	500	47
FAR-HP O 100/4	3300	140	DN100	DN50	1630	510	640	246	273	650	1000	72
FAR-HP O 150/4	3300	250	DN150	DN50	1630	510	640	246	273	650	1000	76
FAR-HP O 100/5	5400	150	DN100	DN50	1630	510	640	246	273	1000	650	74
FAR-HP O 150/5	5400	300	DN150	DN50	1630	510	640	246	273	1000	650	78
FAR-HP O 200/5	5400	400	DN200	DN50	1630	510	640	286	273	1000	650	84

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

# TECHNICAL DATA AND DIMENSIONS – FAR-HP

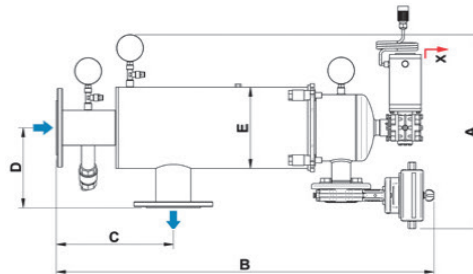
"Y" CONFIGURATION



X ↓ Disassembly gap

Model	Filtering Surface Area	Max. flow rate*	Connections		Dimensions (mm)						Weight
	cm <sup>2</sup>		In/Out	Drain	A	B	C	D	E	X	kg
FAR-HP Y 2"/2	1500	40	2"	DN40	690	770	395	-	206	500	26
FAR-HP Y 3"/2	1500	80	3"	DN40	720	790	450	-	206	500	27
FAR-HP Y 80/2	1500	80	DN80	DN40	720	790	450	-	206	500	31
FAR-HP Y 100/2	1500	100	DN100	DN40	760	800	550	-	206	500	33
FAR-HP Y 3"/3	2200	80	3"	DN40	830	890	450	-	206	650	31
FAR-HP Y 80/3	2200	80	DN80	DN40	830	890	450	-	206	650	35
FAR-HP Y 100/3	2200	130	DN100	DN40	870	900	550	-	206	650	36
FAR-HP Y 100/4	3300	140	DN100	DN50	870	930	600	-	273	650	45
FAR-HP Y 150/4	3300	250	DN150	DN50	950	960	745	-	273	650	51
FAR-HP Y 100/5	5400	150	DN100	DN50	1090	1150	600	-	273	1000	54
FAR-HP Y 150/5	5400	300	DN150	DN50	1160	1180	745	-	273	1000	61

"L" CONFIGURATION



X ↓ Disassembly gap

Model	Filtering Surface Area	Max. flow rate*	Connections		Dimensions (mm)						Weight
	cm <sup>2</sup>		In/Out	Drain	A	B	C	D	E	X	kg
FAR-HP L 2"/2	1500	40	2"	DN40	500	800	296	203	206	500	27
FAR-HP L 3"/2	1500	80	3"	DN40	500	800	296	203	206	500	27
FAR-HP L 80/2	1500	80	DN80	DN40	500	800	296	203	206	500	32
FAR-HP L 100/2	1500	100	DN100	DN40	500	850	346	203	206	500	33
FAR-HP L 3"/3	2200	80	3"	DN40	500	960	296	203	206	650	31
FAR-HP L 80/3	2200	80	DN80	DN40	500	960	296	203	206	650	35
FAR-HP L 100/3	2200	130	DN100	DN40	500	1010	346	203	206	650	36
FAR-HP L 100/4	3300	140	DN100	DN50	550	1025	346	236	273	650	45
FAR-HP L 150/4	3300	250	DN150	DN50	550	1025	346	236	273	650	49
FAR-HP L 100/5	5400	150	DN100	DN50	550	1330	346	236	273	650	54
FAR-HP L 150/5	5400	300	DN150	DN50	550	1330	346	236	273	1000	58
FAR-HP L 200/5	5400	400	DN200	DN50	550	1330	366	236	273	1000	63

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