

PROCESS FILTER HOUSING - PF

DESCRIPTION

PF process filter housings have been specifically developed for applications in process industry, where the risk for corrosion of compressed air⁽¹⁾ system components is very high. To meet the required compressed air quality⁽³⁾ appropriate filter element must be installed into filter housing.



APPLICATIONS⁽²⁾

- Packing industry
- Biotechnology
- Breweries
- Chemical industry
- Diaries
- Fermentation processes
- Food & beverage industry
- Pharmaceutical industry
- Hospitals

⁽¹⁾For any other technical gas please contact us or your local dealer

⁽²⁾PF process filter housing can be used in variety of applications. For applications not listed please contact us or your local dealer.

⁽³⁾For oil removal, coalescing filter element must be installed and flow direction inside-out must be provided. General arrangement is filter head on top and filter bowl on bottom.

FILTER HOUSING RATING ACCORDING TO ISO8573-1

Solid particles	Water	Oil
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TECHNICAL SPECIFICATION

Operating temperature	0 - 150 °C*	32 - 302 °F
Operating pressure	0 – 10 (12, 16) bar(g)	0 – 145 (174, 232) psi

*Actual operating temperature depend on sealing material

MATERIALS

Housing material	Stainless steel (quality 1.4301; on request 1.4404)
Sealing	EPDM (Optional FKM or SILICONE)
Housing finishes	Polished down to grade Ra1.6
Lubricant	(Optional Shell cassida grease RLS 2)

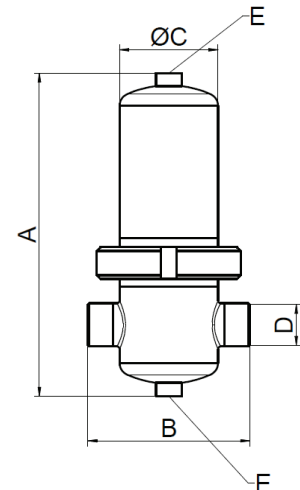
SIZES

FILTER HOUSING	PIPE SIZE-D [inch]	FILTER ELEMENT	OPERATING PRESSURE	FLOW CAPACITY		DIMENSIONS [mm]				VOLUME [l]	WEIGHT [kg]
				[Nm ³ /h]	[scfm]	A	B	C	E		
PF 005	1/4"	1X0310	16	75	129	200	116	76,1	¼"	0,71	1,7
PF 007	3/8"	1X0410	16	105	180	231	120	76,1	¼"	0,84	1,9
PF 010	1/2"	1X0420	16	150	257	231	125	76,1	¼"	0,84	1,9
PF 018	3/4"	1X0520	16	225	386	253	125	76,1	¼"	0,93	2,0
PF 030	1"	1X0525	16	315	540	272	136	88,9	¼"	1,4	2,6
PF 047	1 1/4"	1X0725	16	420	720	334	155	88,9	¼"	1,74	3,0
PF 070	1 1/2"	1X0730	16	600	1029	386	180	114,3	¼"	3,4	4,3
PF 094	2"	1X1030	16	900	1544	453	180	114,3	¼"	4,1	4,8
PF 150	2"	1X1530	16	1260	2161	580	180	114,3	¼"	5,3	5,3
PF 175	2 1/2"	1X2030	16	1680	2881	740	224	139,7	¼"	10,2	9,0
PF 200	3"	1X3030	12	2400	4116	1008	224	139,7	¼"	14	10,8
PF 240	3"	1X3050	12	3600	6174	1040	255	168,3	¼"	21	16,2
PF 450	DN100	3X2030	10	5040	8644	986	410	219,1	1"	34	45
PF 600	DN100	3X3030	10	6720	11525	1240	410	219,1	1"	43	46
PF 900	DN150	4X3030	10	9600	16464	1300	480	273,0	1"	70	70
PF 1200	DN150	6X3030	10	13440	23050	1350	540	323,9	1"	103	80
PF 1800	DN200	8X3030	10	17280	29635	1500	660	406,4	1"	180	135
PF 2000	DN200	10X3030	10	21120	36221	1500	660	406,4	1"	180	135

Flow capacity at 7 bar(g), 20°C

PRESSURE EQUIPMENT DIRECTIVE PED 97/23/CE (Fluid group 2)

PF 005 - PF 047	Not required
PF 070 - PF 200	Category 1, Module A
PF 240 - PF 900	Category 2, Module H
PF 1200-PF 2000	Category 3, Module H



CORRECTION FACTORS

To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).

CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C_{OP}


OPERATING PRESSURE

[bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
C _{OP}	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

MAINTENANCE

Replace filter element at least every 12 months or follow the instructions for specific filter element. Change the sealing when you disassemble filter housing. Once per year make a visual check of filter housing and make sure there is no visual damage.

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	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2000 Reg. number: 200285
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