HIGH PRESSURE PROCESS FILTER HOUSING - HPF

DESCRIPTION

HPF 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] HPF 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.

TECHNICAL SPECIFICATION

Operating temperature[4]	-20 - 150 °C	-4 - 302 °F
Short duration (15min) temp limit	Up to 200 °C	Up to 392 °F
Operating pressure	0 – 50 bar(g)	0-725 psi

[4] Actual operating temperature depends on sealing material and type of filter element.

MATERIALS

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

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SIZES

FILTER HOUSING	PIPE SIZE D [inch]	FILTER ELEMENT	FLOW CAPACITY [Nm³/h]	FLOW CAPACITY [scfm]	DIMENSIONS A	DIMENSIONS B	DIMENSIONS C	VOLUME [l]	WEIGHT [kg]
HPF 010	1/2”	0420	150	88	243	121	76,1	0,84	2,5
HPF 018	3/4”	0520	225	132	267	129	76,1	0,93	2,7
HPF 030	1”	0525	315	185	286	143	88,9	1,4	3,4
HPF 047	1 1/4”	0725	420	247	355	160	88,9	1,74	3,9
HPF 070	1 1/2”	0730	600	353	400	182	114,3	3,4	5,6
HPF 094	2”	1030	900	530	481	180	114,3	4,1	9,2
HPF 150	2”	1530	1260	742	607	180	114,3	5,3	10,9
HPF 200	3”	3030	2400	1413	1018	228	139,7	14	11,5

Flow capacity at 7 bar(g), 20°C
Standard is BSP pipe connection, other pipe connection on request.

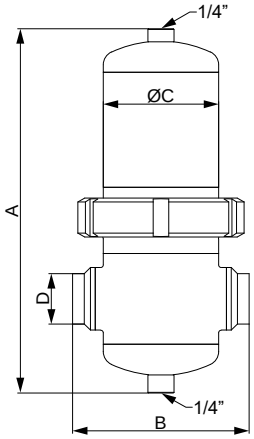
PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 2)

HPF 010/50 - HPF 018	Article 4.3
HPF 030/50 - HPF 094	Category 2, Module H
HPF 150/50 - HPF 200	Category 3, Module H

PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 1)[6]

HPF 010/50 - HPF 018	Article 4.3
HPF 030/50 - HPF 070	Category 2, Module H
HPF 094/50 - HPF 200	Category 3, Module H

[5] Fluid group must be specified in the order, if not standard fluid group 2 is selected.



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]	3	5	7	10	13	16	20	30	40	50
[psi]	44	72	100	145	189	232	290	435	580	725
C_{OP}	0,50	0,75	1	1,38	1,75	2,13	2,63	3,88	5,13	6,38

MAINTENANCE

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

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2015
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