

**50 bar**

operating pressure

150 to 2400 Nm³/h

volume flow rate

1/2" to 3"

connections

1,5 to 150 °C

operating temperature range

stainless steel 1.4404-standard**stainless steel 1.4301**-option
material

DESCRIPTION

HPF process filters are designed for high pressure applications in process industry, where the risk for corrosion of compressed air system components is very high.

Required compressed air quality according to standard ISO 8571-1 can be achieved with 9 different grades of filter elements.

HPF process filter housing can be used in variety of applications. For applications not listed please contact producer or your local distributor.

For any other technical gas please contact producer or your local distributor.

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

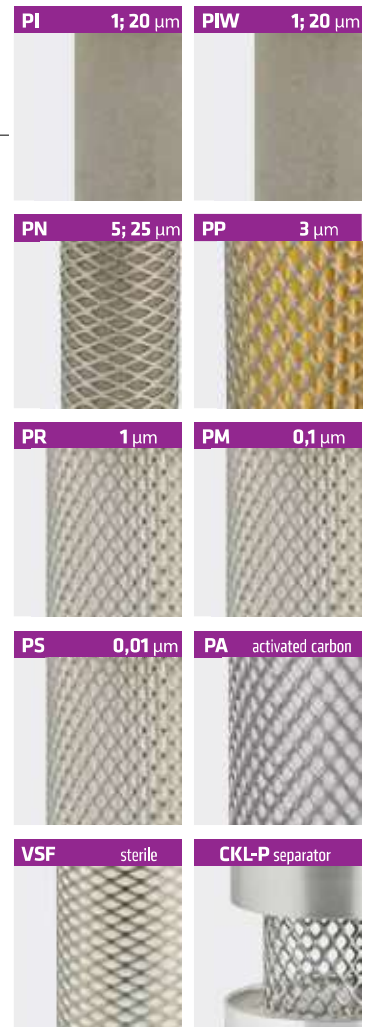
Fluid group 1 on request.

APPLICATIONS

- Packing industry
- Biotechnology
- Breweries
- Chemical industry
- Dairies
- Fermentation processes
- Food and beverage industry
- Pharmaceutical industry
- Hospitals

HPF SERIES

HIGH PRESSURE STAINLESS STEEL PROCESS FILTERS

**AOK 50SS**

page 117

TD 420M

page 112



TECHNICAL DATA									FILTER ELEMENTS									
Filter housing size	Pipe size D	Oper. press.	Flow rate at 7 bar(g), 20 °C		Dimensions [mm]			Mass kg	PI prefilter 1; 20 µm	PIW prefilter 1; 20 µm	PN prefilter 5; 25 µm	PP prefilter 3 µm	PR prefilter 1 µm	PM microfilter 0,1 µm	PS microfilter 0,01 µm	PA activated carbon	CKL-P	
	inch		bar/psi	Nm ³ /h	scfm	A	B		C									
HPF 010	1/2"	50/725	150	88	243	121	76,1	2,5	0420 PI	0420 PIW	0420 PN	0420 PP	0420 PR	0420 PM	0420 PS	0420 PA	0420 CKL-P	
HPF 018	3/4"	50/725	225	132	267	129	76,1	2,7	0520 PI	0520 PIW	0520 PN	0520 PP	0520 PR	0520 PM	0520 PS	0520 PA	0520 CKL-P	
HPF 030	1"	50/725	315	185	286	143	88,9	3,4	0525 PI	0525 PIW	0525 PN	0525 PP	0525 PR	0525 PM	0525 PS	0525 PA	0525 CKL-P	
HPF 047	1 1/4"	50/725	420	247	336	160	88,9	3,9	0725 PI	0725 PIW	0725 PN	0725 PP	0725 PR	0725 PM	0725 PS	0725 PA	0725 CKL-P	
HPF 070	1 1/2"	50/725	600	353	400	182	114,3	5,6	0730 PI	0730 PIW	0730 PN	0730 PP	0730 PR	0730 PM	0730 PS	0730 PA	0730 CKL-P	
HPF 094	2"	50/725	900	530	481	180	114,3	9,2	1030 PI	1030 PIW	1030 PN	1030 PP	1030 PR	1030 PM	1030 PS	1030 PA	1030 CKL-P	
HPF 150	2"	50/725	1260	742	607	180	114,3	10,9	1530 PI	1530 PIW	1530 PN	1530 PP	1530 PR	1530 PM	1530 PS	1530 PA	1530 CKL-P	
HPF 200	3"	50/725	2400	1413	1018	228	139,7	11,5	3030 PI	3030 PIW	3030 PN	3030 PP	3030 PR	3030 PM	3030 PS	3030 PA	3030 CKL-P	
	quality class - solids (ISO 8573-1)	-	-	-	6	3	2	1	1 ¹⁾	-								
	quality class - oils (ISO 8573-1)	-	-	-	-	-	2	1	1	-								
	pressure drop - new element-dry [mbar]	≤2600; ≤60	≤2600; ≤60	10	10	20	50	80	60	-								
	filter media	sintered INOX 1,4404	sintered INOX 1,4404	stainless steel mesh 1,4301	acrylic fibres, cellulose	borosilicate micro fibres	borosilicate micro fibres, activ. carbon	-										
	pleated version	-	-	-	✓	✓	✓	✓	-	-								
	wrapped version	-	-	✓	-	-	-	✓	-	-								
	sintered version	✓	✓	-	-	-	-	-	-	-								
min. operating temperature (°C / °F)	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35									
max. operating temperature (°C / °F)	150 / 302	150 / 302	150 / 302	65 / 149	120 / 248	120 / 248	120 / 248	45 / 113	120 / 248									

CORRECTION FACTORS										
Operating pressure [bar]	3	5	7	10	13	16	20	30	40	50
Operating pressure [psi]	44	72	100	145	189	232	290	435	580	725
Correction factor	0,50	0,75	1	1,38	1,75	2,13	2,63	3,88	5,13	6,38

¹⁾ Valid if "S" filter cartridge is installed upstream.