PF SERIES

STAINLESS STEEL PROCESS FILTERS

16 (12, 10) bar
operating pressure

75 to 21120 Nm³/h
volume flow rate

1/4" to DN200
connections

up to 150°C
operating temperature range

stainless steel 1.4404-standard
stainless steel 1.4301-option
material

DESCRIPTION

PF process filters are designed for 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.

PF 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.

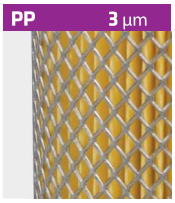
Fluid group 1 on request.





















APPLICATIONS

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

Drain valve



MCDI



page113

AOK 20SS



page108

TD16Mcr



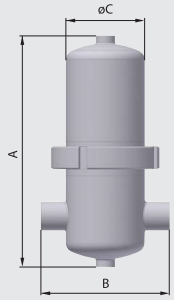
page104







TECHNICAL DATA										FILTER ELEMENTS							
Filter housing size	Pipe size	Oper. press.	Flow rate at 7 bar(g), 20°C		Dimensions [mm]				Mass	**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
	inch	bar	Nm³/h	scfm	A	B	C	D	kg								
PF 005	1/4"	16	75	44	202	116	76,1	1/4"	1,7	0310 PI	0310 PIW	0310 PN	0310 PP	0310 PR	0310 PM	0310 PS	0310 PA
PF 007	3/8"	16	105	62	232	120	76,1	1/4"	1,9	0410 PI	0410 PIW	0410 PN	0410 PP	0410 PR	0410 PM	0410 PS	0410 PA
PF 010	1/2"	16	150	88	230	125	76,1	1/4"	1,9	0420 PI	0420 PIW	0420 PN	0420 PP	0420 PR	0420 PM	0420 PS	0420 PA
PF 018	3/4"	16	225	132	254	125	76,1	1/4"	2,0	0520 PI	0520 PIW	0520 PN	0520 PP	0520 PR	0520 PM	0520 PS	0520 PA
PF 030	1"	16	315	185	275	136	88,9	1/4"	2,6	0525 PI	0525 PIW	0525 PN	0525 PP	0525 PR	0525 PM	0525 PS	0525 PA
PF 047	1 1/4"	16	420	247	337	155	88,9	1/4"	3,0	0725 PI	0725 PIW	0725 PN	0725 PP	0725 PR	0725 PM	0725 PS	0725 PA
PF 070	1 1/2"	16	600	353	386	180	114,3	1/4"	4,3	0730 PI	0730 PIW	0730 PN	0730 PP	0730 PR	0730 PM	0730 PS	0730 PA
PF 094	2"	16	900	530	457	180	114,3	1/4"	4,8	1030 PI	1030 PIW	1030 PN	1030 PP	1030 PR	1030 PM	1030 PS	1030 PA
PF 150	2"	16	1.260	742	583	180	114,3	1/4"	5,3	1530 PI	1530 PIW	1530 PN	1530 PP	1530 PR	1530 PM	1530 PS	1530 PA
PF 175	2 1/2"	16	1.680	989	740	224	139,7	1/4"	9,0	2030 PI	2030 PIW	2030 PN	2030 PP	2030 PR	2030 PM	2030 PS	2030 PA
PF 200	3"	12	2.400	1.413	1004	224	139,7	1/4"	10,8	3030 PI	3030 PIW	3030 PN	3030 PP	3030 PR	3030 PM	3030 PS	3030 PA
PF 240	3"	12	3.600	2.119	1029	252	168,3	1/4"	16,2	3050 PI	3050 PIW	3050 PN	3050 PP	3050 PR	3050 PM	3050 PS	3050 PA
PF 450	DN100	10	5.040	2.966	986	410	219,1	1"	45	3x2030 PI	3x2030 PIW	3x2030 PN	3x2030 PP	3x2030 PR	3x2030 PM	3x2030 PS	3x2030 PA
PF 600	DN100	10	6.720	3.955	1240	410	219,1	1"	46	3x3030 PI	3x3030 PIW	3x3030 PN	3x3030 PP	3x3030 PR	3x3030 PM	3x3030 PS	3x3030 PA
PF 900	DN150	10	9.600	5.650	1311	480	273,0	1"	70	4x3030 PI	4x3030 PIW	4x3030 PN	4x3030 PP	4x3030 PR	4x3030 PM	4x3030 PS	4x3030 PA
PF 1200	DN150	10	13.440	7.910	1351	540	323,9	1"	80	6x3030 PI	6x3030 PIW	6x3030 PN	6x3030 PP	6x3030 PR	6x3030 PM	6x3030 PS	6x3030 PA
PF 1800	DN200	10	17.280	10.171	1496	660	406,4	1"	135	8x3030 PI	8x3030 PIW	8x3030 PN	8x3030 PP	8x3030 PR	8x3030 PM	8x3030 PS	8x3030 PA
PF 2000	DN200	10	21.120	12.431	1496	660	406,4	1"	135	10x3030 PI	10x3030 PIW	10x3030 PN	10x3030 PP	10x3030 PR	10x3030 PM	10x3030 PS	10x3030 PA



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
max. operating temperature (°C / °F)	150 / 302	150 / 302	150 / 302	65 / 149	120 / 248	120 / 248	120 / 248	45 / 113

CORRECTION FACTORS

Operating pressure [bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Operating pressure [psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
Correction factor	0,38	0,50	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

[1] Valid if "S" filter cartridge is installed upstream.