

# PROCESS FILTER HOUSING – PFFC

## DESCRIPTION

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

## APPLICATIONS <sup>(2)</sup>

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



<sup>(1)</sup> For any other technical gas please contact us or your local dealer

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

<sup>(3)</sup> 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 <sup>(4)</sup>	-20 - 150 °C	-4 - 302 °F
Operating pressure	0 – 14 bar(g)	0 – 203 psi

<sup>(4)</sup> Actual operating temperature depends on sealing material and type of filter element.

## 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 (externally)
Lubricant	(Optional Shell cassida grease RLS 2)

## 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.

## PRODUCT DATA SHEET

### SIZES

FILTER HOUSING	PIPE SIZE-D	FILTER ELEMENT	OPERATING PRESSURE	FLOW CAPACITY		DIMENSIONS [mm]				VOLUME [l]	WEIGHT [kg]
				[Nm <sup>3</sup> /h]	[scfm]	A	B	C	E		
PFFC 005	1/4"	0310	14	75	44	206	120	76,1	1/4"	0,70	1,8
PFFC 007	3/8"	0410	14	105	62	236	120	76,1	1/4"	0,80	2,0
PFFC 010	1/2"	0420	14	150	88	239	121	76,1	1/4"	0,84	2,1
PFFC 018	3/4"	0520	14	225	132	263	121	76,1	1/4"	0,95	2,2
PFFC 030	1"	0525	14	315	185	280	136	88,9	1/4"	1,4	3,0
PFFC 047	1 1/4"	0725	14	420	247	343	155	88,9	1/4"	1,8	3,4
PFFC 070	1 1/2"	0730	14	600	353	376	180	114,3	1/4"	3,4	4,6
PFFC 094	2"	1030	14	900	530	445	180	114,3	1/4"	4,1	5,2
PFFC 150	2"	1530	14	1260	742	572	180	114,3	1/4"	5,3	6,0
PFFC 175	2 1/2"	2030	14	1680	989	736	226	139,7	1/4"	10,2	9,6
PFFC 200	3"	3030	14	2400	1.413	979	226	139,7	1/4"	14	13,7
PFFC 240	3"	3050	14	3600	2.119	1041	256	168,3	1/4"	21	18,5
PFFC 450	DN100	3x 2030	10	5040	2.966	981	410	219,1	1"	34	56
PFFC 600	DN100	3x 3030	10	6720	3.955	1240	410	219,1	1"	43	60
PFFC 900	DN150	4x 3030	10	9600	5.650	1311	480	273,0	1"	72	90
PFFC 1200	DN150	6x 3030	10	13440	7.910	1330	540	323,9	1"	102	112
PFFC 1800	DN200	8x 3030	10	17280	10.171	1496	660	406,4	1"	181	201
PFFC 2000	DN200	10x 3030	10	21120	12.431	1496	660	406,4	1"	181	202

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)

PFFC 005 - PFFC 070

Article 4.3

PFFC 094 - PFFC 200

Category 1, Module H

PFFC 240 - PFFC 900

Category 2, Module H

PFFC 1200 - PFFC 2000

Category 3, Module H

### PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 1)<sup>(5)</sup>

PFFC 005 – PFFC 047

Article 4.3

PFFC 070

Category 1, Module H

PFFC 094 – PFFC 200

Category 2, Module H

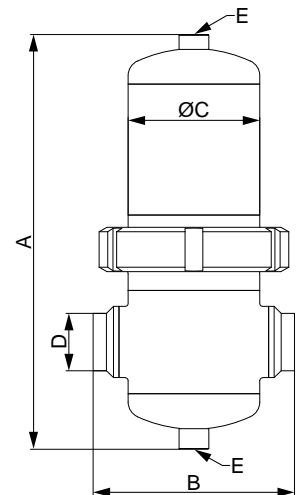
PFFC 240 – PFFC 600

Category 3, Module H

PFFC 1200 – PFFC 2000

Category 4, Module H1

<sup>(5)</sup> 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<sub>Op</sub>

### OPERATING PRESSURE

[bar]	2	3	4	5	6	7	8	9	10	11	12	13	14
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203
C <sub>Op</sub>	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

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# FLOTECH

Compressor & Vacuum Parts Ltd