WELDED STAINLESS STEEL FILTER HOUSING – WFIT

(threaded connection)



DESCRIPTION

WFIT welded stainless steel filter housings with threaded connections have been developed for filtration of compressed air as well as many other gasses [1] where the risk for corrosion is very high or where stainless steel housing is required. To meet the required gas quality appropriate filter element must be installed into filter housing.

APPLICATIONS [2]

- Biotechnology
- Breweries
- Chemical industry
- Petrochemical industry
- Fermentation processes
- Pharmaceutical industry
- Hospitals

[1] For list of suitable gasses please contact us or your local dealer
[2] WFIT process filter housing can be used in variety of applications. For applications not listed please contact us or your local dealer.

TECHNICAL SPECIFICATION

Operating temperature[3]	-20 – 150 °C	-4 – 302 °F
Operating pressure	0 – 14 bar(g)	0 – 203 psi

[3] 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	FKM (Optional EPDM or SILICONE)
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.

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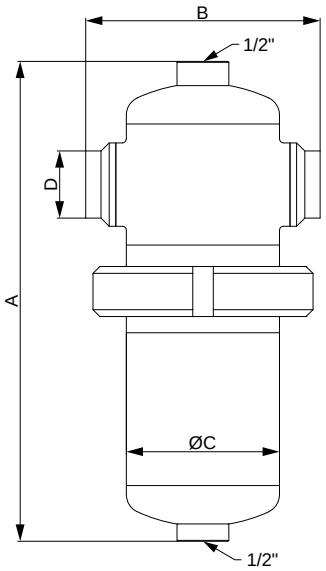
SIZES

FILTER HOUSING	PIPE SIZE D [inch]	FILTER ELEMENT	FLOW CAPACITY		DIMENSIONS [mm]			VOLUME	WEIGHT
			[Nm^3/h]	[scfm]	A	B	C	[l]	[kg]
WFIT 005	1/4”	0310	75	44	204	120	76,1	0,69	1,9
WFIT 007	3/8”	0410	105	62	235	120	76,1	0,83	2,1
WFIT 010	1/2”	0420	150	88	239	121	76,1	0,84	2,2
WFIT 018	3/4”	0520	225	132	263	121	76,1	0,93	2,3
WFIT 030	1”	0525	315	185	278	136	88,9	1,4	3,1
WFIT 047	1 1/4”	0725	420	247	348	155	88,9	1,7	3,4
WFIT 070	1 1/2”	0730	600	353	376	180	114,3	3,4	4,6
WFIT 094	2”	1030	900	530	458	180	114,3	4,1	5,4
WFIT 150	2”	1530	1260	742	571	180	114,3	5,2	6,1
WFIT 175	2 1/2”	2030	1680	989	722	226	139,7	10	11,4
WFIT 200	3”	3030	2400	1.413	1004	224	139,7	14	12
WFIT 240	3”	3050	3600	2.119	1029	252	168,3	21	16

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)

WFIT 005 - 030	Article 4.3
WFIT 047	Category 1, Module H
WFIT 070 - 240	Category 2, Module H



PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 1) [4]

WFIT 005 - 030	Article 4.3
WFIT 047	Category 1, Module H
WFIT 070 - 200	Category 2, Module H
WFIT 240	Category 3, Module H

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

CORRECTION FATORS

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
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203
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

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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