WELDED STAINLESS STEEL FILTER HOUSING – WFIW

DESCRIPTION

WFIW welded stainless steel filter housings have been specifically 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
- Diaries
- Fermentation processes
- Pharmaceutical industry
- Hospitals

[1] For list of suitable gasses please contact us or your local dealer
[2] WFIW 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. For temperatures below 0°C contact manufacturer

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)

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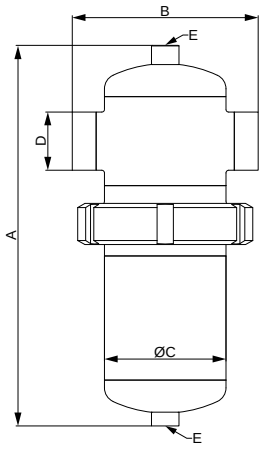
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SIZES

FILTER [4] HOUSING	PIPE SIZE [Ø, mm]	FILTER ELEMENT	OPERATING PRESSURE	FLOW CAPACITY [Nm³/h]	FLOW CAPACITY [scfm]	DIMENSIONS [mm] A	B	C	E [4]	VOLUME [l]	WEIGHT [kg]
WFIW 005	17,2	1x0310	14	75	44	202	116	76,1	1/2"	0,70	1,8
WFIW 010	21,3	1x0420	14	150	88	240	121	76,1	1/2”	0,84	2,0
WFIW 018	26,9	1x0520	14	225	132	254	125	76,1	1/2”	0,93	2,0
WFIW 030	33,7	1x0525	14	315	185	280	136	88,9	1/2”	1,4	3,0
WFIW 047	42,4	1x0725	14	420	247	337	155	88,9	1/2”	1,74	3,0
WFIW 070	48,3	1x0730	14	600	353	376	176	114,3	1/2”	3,3	4,3
WFIW 094	60,3	1x1030	14	900	530	457	180	114,3	1/2”	4,1	4,8
WFIW 150	60,3	1x1530	14	1260	742	583	180	114,3	1/2”	5,3	5,3
WFIW 175	76,1	1x2030	14	1680	989	740	224	139,7	1/2”	10,2	9,0
WFIW 200	88,9	1x3030	14	2400	1.413	1004	224	139,7	1/2”	14	10,8
WFIW 240	88,9	1x3050	14	3600	2.119	1029	252	168,3	1/2”	21	16,2

Flow capacity at 7 bar(g), 20°C
Standard is BSP pipe connection, other pipe connection on request.
[4] Other size of filter housing or request.



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

WFIW 005 – 070	Article 4.3
WFIW 094 – 200	Category 1, Module H
WFIW 240	Category 2, Module H

PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 1)[5]

WFIW 005 – 047	Article 4.3
WFIW 070	Category 1, Module H
WFIW 094- 200	Category 2, Module H
WFIW 240	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]	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

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

BUREAU VERITAS

Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2015
Reg. number: 200285

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