



FILTER HOUSING – BF

DESCRIPTION

BF welded filter housings have been developed for high efficient removal of solid particles, water, oil aerosols, hydrocarbons and odour vapours from large compressed air ⁽¹⁾ systems. To meet the required compressed air quality appropriate filter element must be installed into filter housing.

APPLICATIONS ⁽²⁾

- General industrial application
- Automotive
- Electronics
- Food & Beverage
- Chemical
- Petrochemical
- Plastics
- Paint



⁽¹⁾ For any other technical gas please contact us or your local dealer

⁽²⁾ BF 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 - 120 °C	-4 - 248 °F
Operating pressure	0 - 16 bar(g)	0 - 232 psi

⁽³⁾ Actual operating temperature depends on sealing material and type of filter element.

MATERIALS

Housing material	Carbon steel
Fittings, Screws	Brass, Brass-zinc plated, Steel
Sealing	Aramid fibre with a nitrile rubber binder
Corrosion protection (internal)	Epoxy coat
Outside protection	Powder paint coated (Epoxy-polyester base)
Lubricant	Shell cassida grease RLS 2



SIZES

FILTER HOUSING	CONN. SIZE [DN]	FILTER ELEMENT	FLOW CAPACITY		DIMENSIONS [mm]					VOLUME [l]	WEIGHT [kg]
			[Nm ³ /h]	[scfm]	A	B	C	D	E		
BF 0240	80	1 x 76090	1680	989	1145	450	1640	219	157	38	71
BF 0300	100	2 x 76090	3150	1853	1330	560	1780	324	208	100	110
BF 0450	125	3 x 76090	4700	2765	1330	560	1780	324	206	100	115
BF 0600	150	4 x 76090	6300	3706	1360	620	1780	368	241	125	154
BF 0900	150	6 x 76090	9400	5530	1420	680	1810	405	261	168	195
BF1200	200	8 x 76090	12550	7382	1850	792	525	508	-	283	340
BF 1500	200	10 x 76090	15700	9235	1890	918	545	610	-	411	497
BF 1800	250	12 x 76090	18850	11088	2042	955	568	610	-	461	547
BF 2500	250	16 x 76090	25100	14765	2030	1042	685	711	-	614	643
BF 3000	300	20 x 76090	31400	18481	2130	1085	680	711	-	663	656

Flow capacity at 7 bar(g), 20°C

Standard is connection flange EN 1092-1/01 PN16, flange connection ANSI B16.5 is on request.

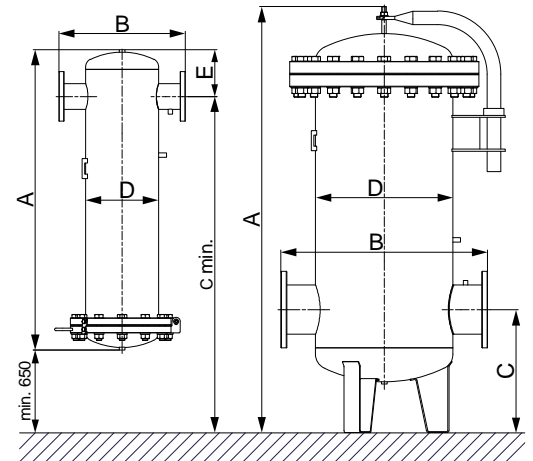
PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 2)

BF 0240	Category 2, Module H
BF 0300 - BF 0900	Category 3, Module H1
BF 1200 - BF 3000	Category 4, Module H1

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

BF 0240	Category 3, Module H
BF 0300 - BF 3000	Category 4, Module H1

⁽⁴⁾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).

$$\text{CORRECTED CAPACITY} = \text{NOMINAL FLOW CAPACITY} \times C_{OP}$$

OPERATING PRESSURE

[bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
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	2,00	2,13

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.