

# BF SERIES

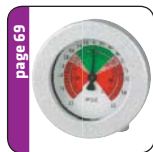
## WELDED CARBON STEEL COMPRESSED AIR FILTERS

### APPLICATIONS

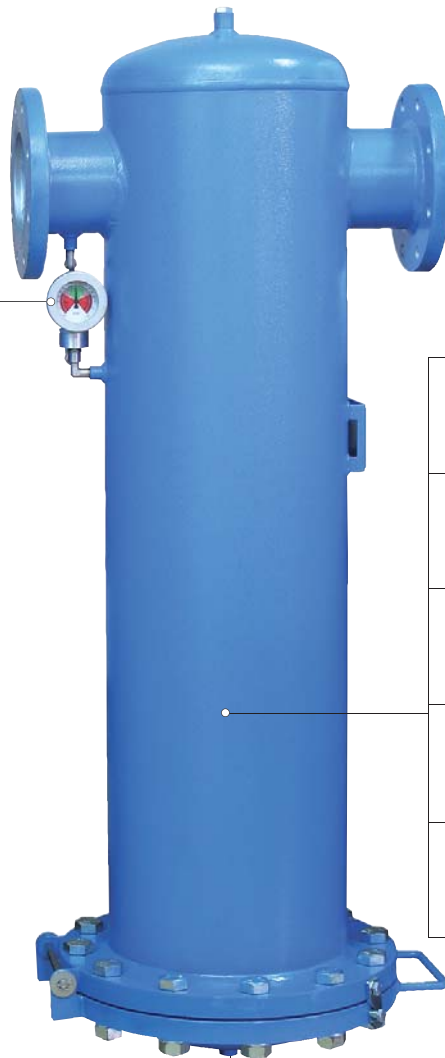
- general industrial applications
- automotive
- electronics
- food and beverage
- chemical
- petrochemical
- plastics
- paint

operating pressure	<b>16 bar</b>
volume flow rate	<b>1680 to 31400 Nm<sup>3</sup>/h</b>
connections	<b>DN80 to DN300</b>
operating temp. range	<b>1,5 to 65°C</b>
standard colour	<b>RAL 5012</b>

### PRESSURE DROP INDICATORS



MDA60



### FILTER ELEMENTS

<b>B</b>		15 µm sintered brass
<b>P</b>		3 µm acrylic fibres, cellulose
<b>R</b>		1 µm acrylic fibres, cellulose
<b>M</b>		0,1 µm borosilicate micro fibres
<b>S</b>		0,01 µm borosilicate micro fibres
<b>A</b>		activated carbon borosilicate micro fibres

### CONDENSATE DRAINS

<b>AOK20B</b>	<b>TD 16M/S</b>	<b>CDI 16B</b>	<b>ECD-B</b>	<b>EMD12</b>

### 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<sup>(1)</sup> systems. To meet the required compressed air quality appropriate filter element (B, P, R, M, S, A, ) must be installed into filter housing.

<sup>(1)</sup> For any other technical gas please contact producer or your local distributor.

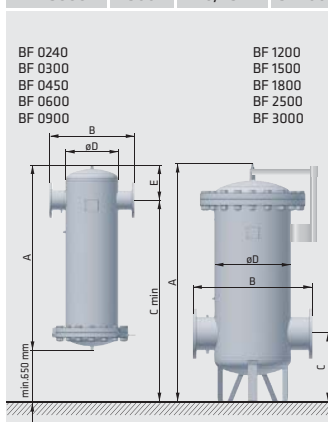


PED 97/23/CE (Fluid group 2)		
Filter size	Category	Module
BF 0240	2	H
BF 0300	3	H
BF 0450	3	H
BF 0600	3	H
BF 0900	3	H
BF 1200	4	H1
BF 1500	4	H1
BF 1800	4	H1
BF 2500	4	H1
BF 3000	4	H1



### TECHNICAL DATA - BF FILTERS

Filter housing size	Pipe size DN	Max. oper. pressure bar/psi	Flow rate at 7 bar(g), 20°C		Dimensions [mm]					Mass kg	BF FILTER ELEMENTS					
			Nm³/h	scfm	A	B	C	D	E		B sintered 15 µm	P prefilter 3 µm	R prefilter 1 µm	M microfilter 0,1 µm	S microfilter 0,01 µm	A activated carbon
BF 0240	80	16/232	1.680	989	1170	450	1645	219	177	61	1×76090 B15	1×76090 P	1×76090 R	1×76090 M	1×76090 S	1×76090 A
BF 0300	100	16/232	3.150	1.853	1340	560	1780	324	227	115	2×76090 B15	2×76090 P	2×76090 R	2×76090 M	2×76090 S	2×76090 A
BF 0450	125	16/232	4.700	2.765	1340	560	1780	324	227	123	3×76090 B15	3×76090 P	3×76090 R	3×76090 M	3×76090 S	3×76090 A
BF 0600	150	16/232	6.300	3.706	1425	620	1810	368	265	178	4×76090 B15	4×76090 P	4×76090 R	4×76090 M	4×76090 S	4×76090 A
BF 0900	150	16/232	9.400	5.530	1480	680	1850	419	650	218	6×76090 B15	6×76090 P	6×76090 R	6×76090 M	6×76090 S	6×76090 A
BF 1200	200	16/232	12.550	7.382	1835	792	510	508	-	320	8×76090 B15	8×76090 P	8×76090 R	8×76090 M	8×76090 S	8×76090 A
BF 1500	200	16/232	15.700	9.235	1880	918	535	610	-	455	10×76090 B15	10×76090 P	10×76090 R	10×76090 M	10×76090 S	10×76090 A
BF 1800	250	16/232	18.850	11.088	1950	955	555	610	-	500	12×76090 B15	12×76090 P	12×76090 R	12×76090 M	12×76090 S	12×76090 A
BF 2500	250	16/232	25.100	14.765	2060	1042	645	711	-	590	16×76090 B15	16×76090 P	16×76090 R	16×76090 M	16×76090 S	16×76090 A
BF 3000	300	16/232	31.400	18.481	2130	1085	680	711	-	684	20×76090 B15	20×76090 P	20×76090 R	20×76090 M	20×76090 S	20×76090 A



BF 0240	BF 1200						
BF 0300	BF 1500						
BF 0450	BF 1800						
BF 0600	BF 2500						
BF 0900	BF 3000						
quality class - solids (ISO 8573-1)		7	6	3	2	1	1 <sup>3)</sup>
residual oil content [mg/m³]		-	-	-	<0,1	<0,01	<0,005
quality class - oils (ISO 8573-1)		-	-	-	2	1	1
pressure drop - new element [mbar / psi]		20 / 0,290	10 / 0,145	20 / 0,290	50 / 0,725	80 / 1,160	60 / 0,870
change filter cartridge at pressure drop [mbar / psi]		<sup>1)</sup>	350 / 5,07	350 / 5,07	350 / 5,07	350 / 5,07	6 months <sup>2)</sup>
filter media		sintered brass	acrylic fibres, cellulose	borosilicate micro fibres		activated carbon, borosilicate micro fibres	
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
max. operating temperature (°C / °F)		65 / 149	65 / 149	65 / 149	65 / 149	65 / 149	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

<sup>1)</sup> B filter element can be cleaned with ultrasonic bath or with back flushing. Intervals of cleaning depends of application. If necessary replace filter element with new one.  
<sup>2)</sup> Filter elements "A" must be changed periodically to suit application, but at least every 6 months. Activated carbon filters must not operate in oil saturated conditions.  
<sup>3)</sup> Valid if "S" filter cartridge is installed upstream.