

## BOGE compressed air filters

Leading performance

The BOGE compressed air filter range features market leading performance, which saves valuable energy dollars and ensures your system is protected from contaminants. The series has been tested to provide a saturated differential pressure of <math><1.8\text{ psi}</math> across 0.01 and 1.0 micron grades, making it our most advanced filter to date. The elements include a high efficiency hydrophobic and oleophobic drainage layer resulting in an improved oil removal efficiency. Tested and validated to ISO 12500-1: 2007, the range ensures reliable, clean air and is an ideal solution for a variety of applications. The smart design delivers a high-quality product with serviceability in mind.

**10-YEAR  
HOUSING  
WARRANTY**



### Externally accessible drain

The filter housing features an externally accessible drain which allows for the removal or service of the drain without needing to detach the bowl. This is not only a much cleaner process for technicians, but also drastically reduces service time.



### Modular design

Multiple filters can be bolted together with simple to use connecting kits including an O-ring seal. The close coupling design allows for maximum space savings while minimizing leak points.



### Filtration technology

Custom filtration media and deep pleated technology is used to ensure exceptional product performance in line with air quality standard ISO 8573-1: 2010. Elements feature push fit design and color-coded end caps for easy installation and grade identification.

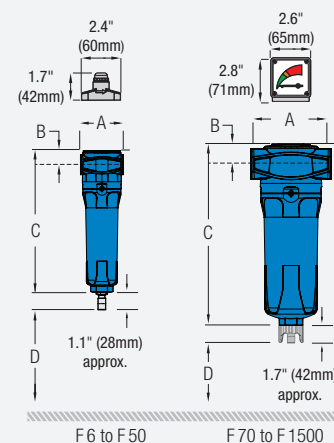


# BOGE compressed air filters

## Leading performance

Grade	Pre filter		Micro filter		Activated carbon filter	
Particle removal	1 micron		0.01 micron		0.01 micron	
Max particle size class*	3		1		1	
Max oil content*	3		1		1	
Max oil carryover at 68°F (20°C)	0.3 ppm	0.3 mg/m <sup>3</sup>	0.01 ppm	0.01 mg/m <sup>3</sup>	0.003 ppm	0.003 mg/m <sup>3</sup>
Pressure loss - clean & dry	0.8 psi	55 mbar	1.2 psi	85 mbar	1.7 psi	115 mbar
Pressure loss - saturated	1.8 psi	125 mbar	1.8 psi	125 mbar	N/A	N/A
Pressure loss - element change	8000 hrs	12 mths	8000 hrs	12 mths	at least every 6 mths	
Max temperature - automatic drain	176°F	80°C	176°F	80°C	122°F**	50°C**
Max working pressure - automatic drain	232 psig	16 barg	232 psig	16 barg	232 psig	16 barg
Max temperature - manual drain	248°F	120°C	248°F	120°C	122°F**	50°C**
Max working pressure - manual drain	300 psig	20.7 barg	300 psig	20.7 barg	300 psig	20.7 barg
Element end cap color	Red		Blue		Black	

\*to ISO 8573-1: 2010 \*\*Maximum recommended operating temperature 77°F (25°C)



F 6 to F 50

F 70 to F 1500

Filter model	Pipe size inches	Inlet flow rate***		Dimensions inches (mm)				Weight	
		SCFM	Nm <sup>3</sup> /hr	A	B	C	D	lbs	kg
F 6 (grade)	1/8	6	10	1.97 (50)	0.67 (17)	6.18 (157)	2.36 (60)	0.6	0.3
F 15 (grade)	1/4	15	25	1.97 (50)	0.67 (17)	6.18 (157)	2.36 (60)	0.6	0.3
F 25 (grade)	1/4	25	42	2.76 (70)	0.91 (23)	7.44 (189)	2.76 (70)	1.3	0.6
F 32 (grade)	3/8	32	54	2.76 (70)	0.91 (23)	7.44 (189)	2.76 (70)	1.3	0.6
F 50 (grade)	1/2	50	85	2.76 (70)	0.91 (23)	9.09 (231)	2.76 (70)	1.3	0.6
F 70 (grade)	1/2	70	119	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7
F 85 (grade)	3/4	85	144	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7
F 105 (grade)	1	105	178	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7
F 125 (grade)	3/4	125	212	5.00 (127)	1.26 (32)	14.57 (370)	3.15 (80)	4.4	2.0
F 175 (grade)	1	175	297	5.00 (127)	1.26 (32)	14.57 (370)	3.15 (80)	4.4	2.0
F 280 (grade)	1 1/4	280	476	5.51 (140)	1.61 (41)	18.74 (476)	3.35 (85)	10.8	4.9
F 320 (grade)	1 1/2	320	544	5.51 (140)	1.61 (41)	18.74 (476)	3.35 (85)	10.8	4.9
F 400 (grade)	1 1/2	400	680	6.69 (170)	2.08 (53)	20.00 (508)	3.94 (100)	10.8	4.9
F 450 (grade)	2	450	765	6.69 (170)	2.08 (53)	20.00 (508)	3.94 (100)	10.8	4.9
F 700 (grade)	2	700	1189	6.69 (170)	2.08 (53)	27.87 (708)	3.94 (100)	12.1	5.5
F 850 (grade)	2 1/2	850	1444	8.66 (220)	2.75 (70)	28.97 (736)	3.94 (100)	23.1	10.5
F 900 (grade)	3	900	1529	8.66 (220)	2.75 (70)	28.97 (736)	3.94 (100)	23.1	10.5
F 1250 (grade)	3	1250	2125	8.66 (220)	2.75 (70)	33.74 (857)	3.94 (100)	25.4	11.5
F 1500 (grade)	3	1500	2550	8.66 (220)	2.75 (70)	39.56 (1005)	3.94 (100)	27.6	12.5

\*\*\*Rated flow at 100 psig (7 barg), reference conditions at 14.7 psi(a) (1.014 bar(a)), 68°F (20°C)

### Pressure correction factors inside to out

Operating pressure psig (barg)	58 (4)	72 (5)	87 (6)	100 (7)	115 (8)	145 (10)	174 (12)	203 (14)	232 (16)	300 (20.7)
100 psig - correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51	1.73

### Technical notes

- Direction of air flow is inside to out through the filter element.
- Pop up indicators (65DPU63) are fitted to models F 25 to F 50 as standard. Differential pressure indicators (65DPIG) are fitted to models F 70 to F 1500 as standard. Activated Carbon (AC) grade filters do not include DP equipment. Volt free contact options are available upon request.
- Coalescing Filters are fitted as standard with normally open float operated automatic drain valves, ADVS16 on models F 6 to F 50 and ADVSE16 on models F 70 to F 1500. Standard filters can operate at 232 psig (16 barg) at 176°F (80°C). Normally closed float operated automatic drain valves (ADVS16C) are available for low range flow applications (2.5 SCFM, 4.2 Nm<sup>3</sup>/hr or lower). 300 psig (20.7 barg) range at 248°F (120°C) available when supplied with a manual drain valve (MDV25 on models F 6 to F 50 and MDVE25 on models F 70 to F 1500).
- Activated Carbon Filters must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>).
- BOGE Filters are manufactured from cast aluminum alloy and are PED 2014/68/EU compliant for group 2 gases.
- Standard threaded connections are NPT to ANSI/ASME B1.20.1. RP (BSP Parallel) to ISO 7-1 and RC (BSP Taper) to ISO 7-1 are also available upon request.
- Filters are suitable for use with mineral and synthetic oils plus, oil-free compressed air applications.

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