

## BOGE water separators

Maximum efficiency

The BOGE water separator is designed to ensure efficient removal of bulk liquid from the compressed air system. Installing a water separator is an essential step in reducing damage caused by moisture and condensate in compressed air and increasing operating life of production equipment. The comprehensive range of BOGE water separators, provides market leading efficiency while eliminating up to 99% of bulk water with continuously low differential pressure. BOGE water separators are tested in accordance with ISO 12500-4: 2009 and come standard with a 10-year warranty. Housings have been expertly designed using advanced software technology to identify and eliminate any points of low efficiency.



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.



### Advanced Spinner Technology

The custom engineered centrifugal spinner was designed with unique vanes to eliminate points of low efficiency, and a vortex arrester to ensure reliable drain function. Even at low velocities, liquid removal efficiency remains high.



### Modular design

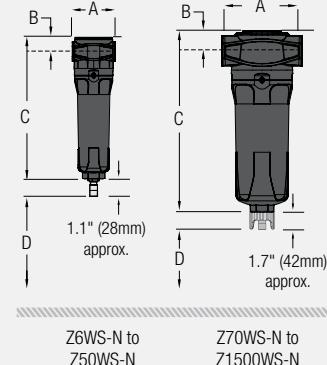
Multiple filters can be bolted together with a water separator using connecting kits which include an O-ring seal. The close coupling design allows for maximum space savings while minimizing leak points.



# BOGE water separators

Maximum efficiency

Grade	WS	
Minimum recommended operating temperature - automatic drain	34°F	1°C
Maximum recommended operating temperature - automatic drain	176°F	80°C
Maximum working pressure - automatic drain	232 psig	16 barg
Minimum recommended operating temperature - manual drain	34°F	1°C
Maximum recommended operating temperature - manual drain	248°F	120°C
Maximum working pressure - manual drain	300 psig	20.7 barg
Typical pressure loss at rated flow	0.8 psi	55 mbar



Z6WS-N to  
Z50WS-N

Z70WS-N to  
Z1500WS-N

Filter model	Pipe size inches	Inlet flow rate*		Dimensions inches (mm)				Weight	
		SCFM	Nm <sup>3</sup> /hr	A	B	C	D	lbs	kg
Z6WS-N	1/8	6	10	1.97 (50)	0.67 (17)	6.18 (157)	2.36 (60)	0.6	0.3
Z15WS-N	1/4	15	25	1.97 (50)	0.67 (17)	6.18 (157)	2.36 (60)	0.6	0.3
Z25WS-N	1/4	25	42	2.76 (70)	0.91 (23)	9.09 (231)	2.76 (70)	1.3	0.6
Z35WS-N	3/8	35	54	2.76 (70)	0.91 (23)	9.09 (231)	2.76 (70)	1.3	0.6
Z50WS-N	1/2	50	85	2.76 (70)	0.91 (23)	9.09 (231)	2.76 (70)	1.3	0.6
Z70WS-N	1/2	70	119	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7
Z125WS-N	3/4	125	212	5.00 (127)	1.26 (32)	14.57 (370)	3.15 (80)	3.7	1.7
Z175WS-N	1	175	297	5.00 (127)	1.26 (32)	14.57 (370)	3.15 (80)	3.7	1.7
Z280WS-N	1 1/4	280	476	5.51 (140)	1.61 (41)	18.74 (476)	3.35 (85)	6.6	3.0
Z320WS-N	1 1/2	320	544	5.51 (140)	1.61 (41)	18.74 (476)	3.35 (85)	6.6	3.0
Z400WS-N	1 1/2	400	680	6.69 (170)	2.08 (53)	20.00 (508)	3.94 (100)	10.8	4.9
Z700WS-N	2	700	1189	6.69 (170)	2.08 (53)	27.87 (708)	3.94 (100)	10.8	4.9
Z850WS-N	2 1/2	850	1444	8.66 (220)	2.75 (70)	16.54 (420)	3.94 (100)	17.6	8.0
Z1500WS-N	3	1500	2550	8.66 (220)	2.75 (70)	16.54 (420)	3.94 (100)	17.6	8.0

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

## Technical notes

1. Water Separators are fitted as standard with normally open float operated automatic drain valves, ADVS16 on models Z6WS-N to Z50WS-N and ADVSE16 on models Z70WS-N to Z1500WS-N. Normally closed operated automatic drain valves (ADVS16C) are available for low range flow applications (2.5 SCFM, 4.2 Nm<sup>3</sup>/hr). 300 psig (20.7 barg) range at 248°F (120°C) is available when supplied with a manual drain valve (MDV25 on models Z6WS-N to Z50WS-N and MDVE25 on models Z70WS-N to Z1500WS-N). Standard filters can operate at 232 psig (16 barg) at 176°F (80°C).
2. Connecting kits are required to connect Water Separators to models Z6WS-N to Z1500WS-N.
3. Wall mounting brackets are available for all models.
4. 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.



## Smart Pump Solutions

6606 Gessner Rd.  
Houston, Texas 77040  
+1 (281) 944 - 9377  
[www.smartpumpsolutions.com](http://www.smartpumpsolutions.com)