



ANTI-SHOCK DOUBLE ORIFICE AIR VALVE

DN50 - DN300

Anti-Shock Double Orifice Air Valve will ensure the correct operation of the pipeline networks allowing the release of air pockets during working conditions, the evacuation and the entrance of large volumes of air in case of filling and draining operations.

Application:



Potable Water, Irrigation and District heating & cooling

Design features

- Advanced design with simple mechanism, strong float to prevent cracking during sudden water hammer and quick closure.
- Aerokinetic mechanism to resist blow shut under higher air velocity even up to sonic velocity of air.
- Anti shock device is installed on top of bonnet. It will slow down the exhausting air flow out during filling to prevent hammer impact, whenever vacuum happen, the device will drop down and let large air into the pipeline.
- No arms or levers to prevent vibrating, bending, direct closure of the float.
- Smooth barrel outside of the float, keep float moving in specified guide rail
- Guide barrel buffer for collision prevention, and drain easy with proper holes around the barrel during vacuum.
- Outside screen will be an option for safety and prevent insects or birds in.

Technical Details:

Maximum Working Pressure PFA:
16 bar / PN16

Certification:
WRAS Approved Material

Working temperature:
Maximum +80°C

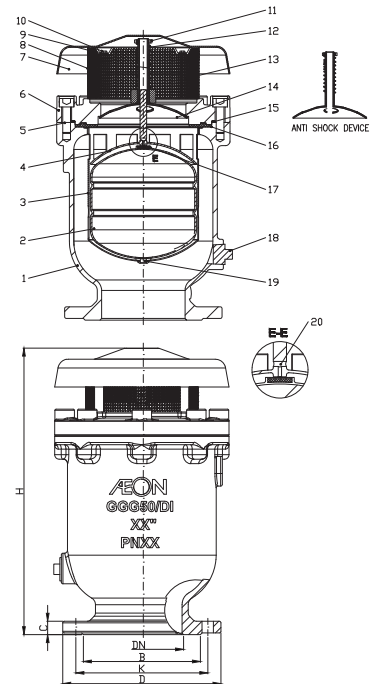
Coating:
300 µm FBE coating, external and internal

Flange Type:
EN 1092-2 PN10 & PN16

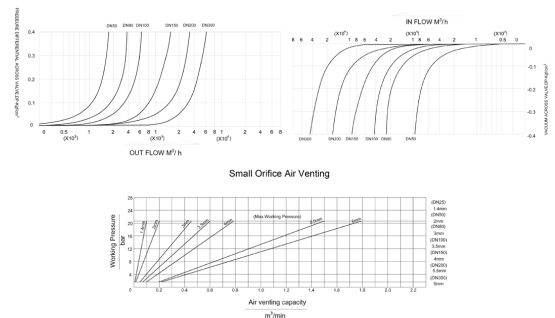
Installation:
Assembly in vertical position only



No	Part Name	Material
1	Body	Ductile Iron EN-GJS-500-7
2	Float	Stainless Steel X5CrNiMo17-12-2 / 1.4401 / 316
3	Guide Barrel	Stainless Steel X5CrNiMo17-12-2 / 1.4401 / 316
4	Sealing Arc	Stainless Steel X5CrNiMo17-12-2 / 1.4401 / 316
5	In Hex Bolt	Stainless Steel X5CrNiMo17-12-2 / 1.4401 / 316
6	Bonnet	Ductile Iron EN-GJS-500-7
7	Cover Carbon	Steel Commercial
8	Screen	Stainless Steel X5CrNiMo17-12-2 / 1.4401 / 316
9	Washer	Stainless Steel X5CrNiMo17-12-2 / 1.4401 / 316
10	Hex Bolt	Stainless Steel X5CrNiMo17-12-2 / 1.4401 / 316
11	Nut	Stainless Steel X5CrNiMo17-12-2 / 1.4401 / 316
12	Spring	Stainless Steel X5CrNiMo17-12-2 / 1.4401 / 316
13	Pillar	Aluminum Commercial
14	Anti shock device	Stainless Steel X5CrNiMo17-12-2 / 1.4401 / 316
15	O-ring	Elastomer NBR/EPDM
16	Seat	Elastomer EPDM
17	Nozzle Seat	Elastomer EPDM
18	Plug - Option	Stainless Steel X5CrNiMo17-12-2 / 1.4401 / 316
19	Buffer	Elastomer EPDM
20	Small Nozzle	Stainless Steel X5CrNiMo17-12-2 / 1.4401 / 316



Pressure drop chart



Dimension (mm & kg)

DN		50	80	100	150	200	300
AW34/4	PN10	AE1176	AE1177	AE1178	AE1179	AE1182	AE1183
	PN16					AE1180	AE1181
H		310	382	420	570	630	800
B		99	132	156	211	266	370
D PN16 / PN10		165	200	220	285	340	460
K PN16 / PN10		125	160	180	240	295	410 / 400
b x n PN16 / PN10		19×4	19×8	19×8	23×8	23×12 / 23×8	28×12 / 23×12
C		19	19	19	19	20	24,5
Weight		12,9	26	30,6	59,4	87	190,5