DERWENT FLOW CONTROL

AFC

AFC Water Air Release Valve

Derwent Industries combination water potable double orifice air release valves are made in accordance with AS 4956. The valves are also available in Anti Shock.in your area

FEATURES

- Ductile Iron body and bonnet to AS 1831:500-7
- Float & Internal components: 316 Stainless Steel
- Fasteners: 316 SS
- Double Orifice prevents air pocket from occuring, improving flow efficiency of the pipeline.
- Bolts where applicable are hot melt encapsulated for superior corrosion resistance in harsh environments.
- Fusion Bonded Epoxy coated to AS/NZS 4158 provides the valve excellent corrosion protection.
- External screen provides additional protection from insects and other wild life.
- During vaccuum the float will drop allowing air flow into the pipeline.
- Air Valves are available in Anti Shock.
- The anti shock device is installed to reduce the level of air being exhausted from the valve during filling, thereby reducing the impact of water hammer on the valve.

APPLICATIONS

The Derwent Industries Double Orifice Air Release valves are for clean water application, water transmission and irrigation applications, improving flow efficiency. The addition of Anti Shock, reduces impacts of water hammer.

TECHNICAL INFORMATION

Size Range	DN 50-300mm
Allowable Operating Pressure:	1600 kPa; 1.6 Mp
Maximum Temperature:	-10 to 80° C
End Connection:	Flanged to AS4087 (Other drillings available)
Flow Media:	Clean Water
Manufactured to:	AS/NZ 4020: 2005
Standards Mark:	SMK41377

Certified Product™ Australian Standard

Ph: 1300 789 256

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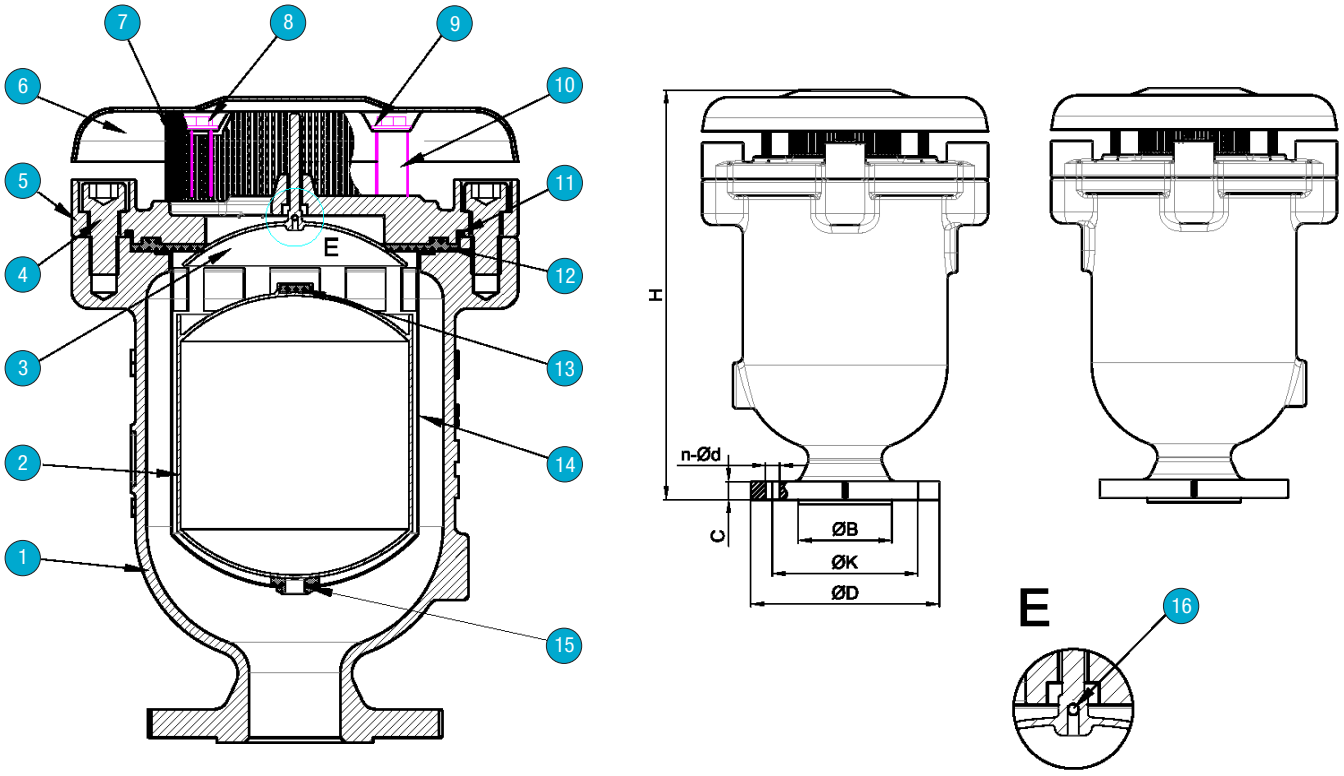
AFC WATER AIR RELEASE VALVE



NO.	PART DESCRIPTION	MATERIAL	GRADE OF MATERIAL	STANDARD REF
1	Body	Ductile Iron	EN GJS 500-7	AS 1831
2	Float	Stainless Steel	AISI 316	ASTM A276
3	Sealing Arc	Stainless Steel	AISI 316	ASTM A276
4	In Hex Bolt	Stainless Steel	AISI 316	ASTM A276
5	Bonnet	Ductile Iron	EN GJS 500-7	AS 1831
6	Cover	Carbon Steel	Q235	
7	Screen	Stainless Steel	SS316	ASTM A276
8	Hex Bolt	Stainless Steel	SS316	ASTM A276
9	Washer	Stainless Steel	SS316	ASTM A276
10	Pillar	Stainless Steel	AISI 316	ASTM A276
11	O-Ring	Aluminium	NBR	AS 1646 and AS 681.1
12	Seat	Rubber	EPDM	AS 1646 and AS 681.1
13	Nozzle Seat	Rubber	EPDM	AS 1646 and AS 681.1
14	Guide Barrel	Stainless Steel	AISI 316	ASTM A276
15	Buffer	Rubber	EPDM	AS 1646 and AS 681.1
16	Small Nozzle	Stainless Steel	AISI 316	ASTM A276

Combination Air Release Valve-AS-50-300

DWG No.
SE-AFC-AS-KARX-50-300-16-TD-V1

DIMENSION

DN	H	ØD BS PN16	ØB TABLE D	ØK TABLE D	N-Ød TABLE D	C BS PN16
50	280	165	90	114	4-Ø18	19
80	362	200	122	146	4-Ø18	19
100	395	220	154	178	4-Ø18	19
150	485	285	211	235	4-Ø18	19
200	582	340	268	292	4-Ø18	20
300	750	460	370	406	12-Ø22	24,5

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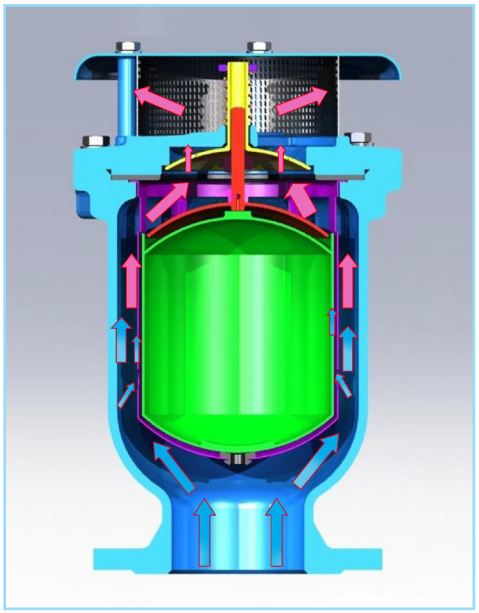
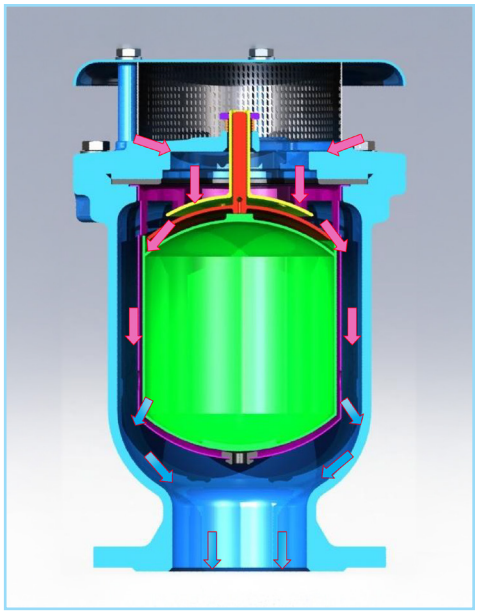
ANTI- SHOCK AIR VALVE

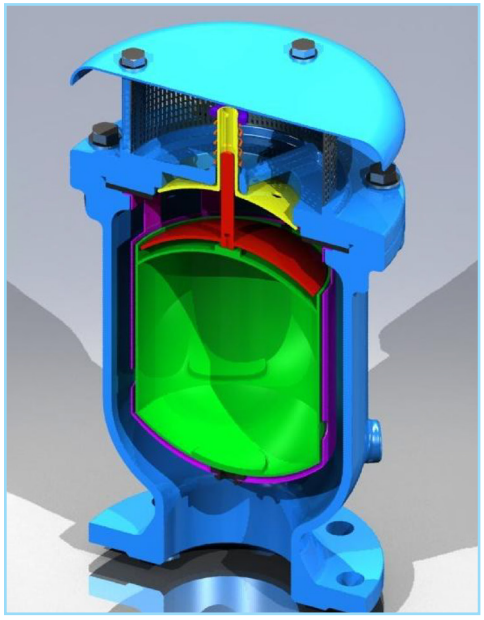
AIR FLOW WATER FLOW



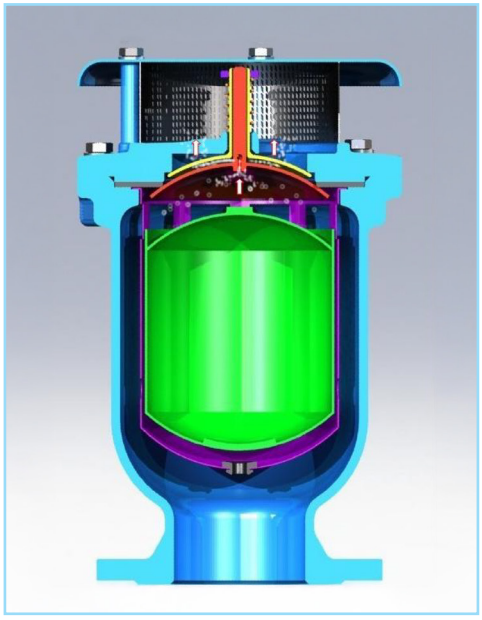
INCREASED AIR EXHAUSTING FLOW



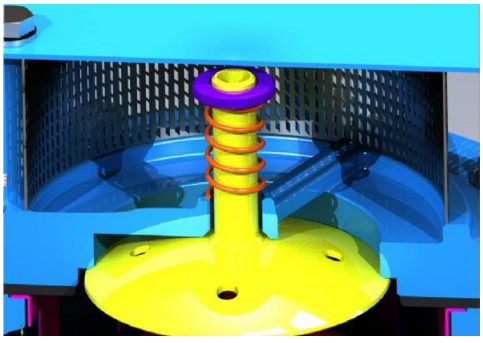
HIGH AIR INTAKE DURING VACUUM



IDLE/RESTING STATE



AIR VENTING



UPPER SHOWING

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DERWENT INDUSTRIES

Derwent - Flow Control
ACN 096 997 152 ABN 48 096 997 152
EMAIL: sales@derwentindustries.com.au
WEB: www.derwentindustries.com.au

Brisbane:
Unit 2F
405 Newman Road
Geebung QL D 4034
Ph: 1300 789 256

Melbourne:
17 Metcalf Drive
Dandenong South, Vic 3175
Ph: 61 - 3 - 9792 1509

Melbourne - AVFI:
54 Enterprise Drive
Bundoora, Vic 3083
Ph: 1300 789 256

Sydney:
2 Ross Place
Wetherill Park, NSW 2164
Ph: 61 - 2 - 9136 0466

Tasmania:
102 - 104 Sunderland St
Derwent Park, Tas, 7009
Ph: 61 - 3 - 6273 0729

Wodonga:
36 Moloney Drive
Wodonga, Vic 3690
Ph: 61 - 2 - 6014 0100

Auckland:
Derwent Industries NZ Ltd
36 Rangi Road
Takanini, Auckland 2245
Ph: 64 - 9 - 218 4959