DEMBLA VALVES LTD.

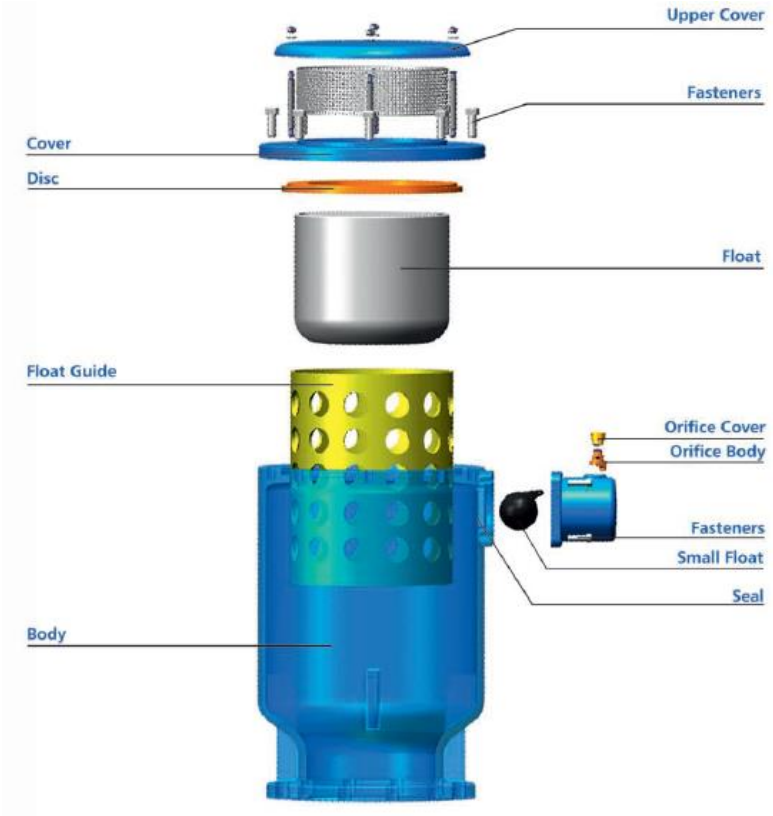
Dembla

AIR VALVE

SERIES - ARV 01

Air Valves Double Chamber / single, double and triple function

Size: DN 40 up to DN 500
Pressure rating: PN 10 u to PN 40
Coating: Electrostatic Fusion Bonded Powder Epoxy Blue



Parts	Main Material	Optional Material
Body Cover Upper Cover	Ductile Iron	Steel Stainless Steel Carbon Nickel Aluminum Bronze
Floats	Foamed Polypropylene (DN40-150) Polyethylene (DN200-500) (Full Material, Not Hollow Inside)	SS 304 SS 316 NAB
Float Guide	PVC	Nylon (Polyamide), SS 304, SS 316
Disc	Bronze	Brass, SS 304, SS 316, NAB
Orifce	SS 304	Bronze, SS 316
Seals	EPDM	NBR
Screws	8:8 (Galv.)	SS 304, SS 316
NOTES	Different Flange Drillings are available such as ISO, EN, and ANSI etc. Standard Operating Temperature is -100C to +800C. All RAL Colors are available. Potable Water Certified Coating is available	

Air Valves single double Chamber and triple function

APPLICATION

Double Chamber Air Release and Vacuum Valves are designed to perform three functions:
1. The venting of large volumes of air on the start-up of the system, while pipelines are being drained.
2. The intake of large volumes of air on shut-o! of the system, while pipelines are being drained.
3. The discharge of pressurized air pockets during the operation.

OPERATION

1. System is turned-on by a valve opening or a pump start:
a) Water moves along the pipeline, pushing air.
b) Air is vented through the large chamber.
c) Water "ows inside the air valve, causing the "oat to rise and seal the outlet.

2. During the operation, pressurized air pockets accumulate in the system:
a) Air pockets enter the valve and cause the "oat in the small chamber to drop.
b) Air is vented through the small ori#ce.
c) Water "ows inside the small chamber, causing the "oat to rise and seal the outlet

3. System is turned-o! by a valve closing, pump shut-o! or by an electricity failure:
a) Water drains and the level of water in the pipeline drops, causing vacuum inside the system.
b) The "oat drops and opens the large chamber.
c) Air is let in the system.

NOTE

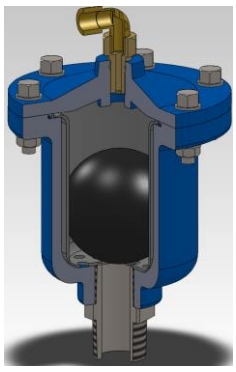
Due to superior "oat design, constructed from a special material, it has advance sealing performance in low pressures. It can provide drip tight sealing even in 0.2 bar pressure. Therefore, you can always rely on air valves even in low operating pressure lines.

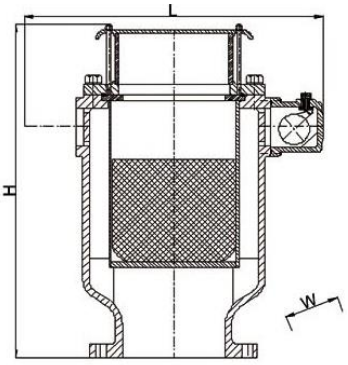
Double Chamber Air Release and Vacuum Valves are used to prevent pipeline bursts, as a result of air intake/discharge failure in the startup and shut-o! of the system AND during the operation.

These valves consist of a body which holds two "oats in di!erent chambers, that are positioned at a predetermined height.
The main "oat is guided by a ribbed cage when there is a change in the elevation of water.
As a result of the aerokinetic desing of the valve, the "oat remains completely stable under air intake/discharge, preventing unmature closing of the valve.

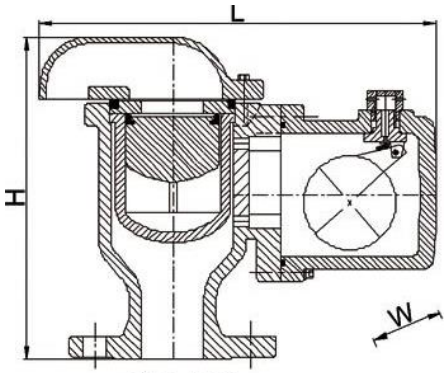
Only when there is a rise in the water level, "oat rises and closes the valve, and when the water level drops, the "oat drops, enabling the intake of large volumes of air to the system.
The second "oat is attached by a pin for acting quickly to sudden water level changes. Therefore, it lets In / out air, while the system is operating. Because of its unique design, Air Valves have intake/discharge capacities greater than its allies, suppressing competition.

Air Valves Double Chamber /triple function





Ø250-500



Ø40-200

Dimensions:

DIMENSIONS (mm)														
DN		40	50	60	65	80	100	125	150	200	250	300	350	400	500
H		255	260	260	260	260	320	320	320	450	810	975	1065	1220	1525
W	*PN 10*	150	165	175	185	200	220	250	285	340	395	525	615	700	880
	PN 16	150	165	175	185	200	220	250	285	340	405	525	615	700	880
	PN 25	150	165	175	185	200	235	270	300	360	425	525	615	700	880
	PN 40	150	165	175	185	200	235	270	300	375	450	525	615	700	880
L		325	325	325	325	325	370	370	370	370	580	700	880	910	1135
Weight (Kg)	*PN 10*	17	17	19	20,1	20,4	31,2	32	34	64	181	195	420	835	1035
	PN 16	17	17	19	20,1	20,4	31,2	32	34	64	181	200	425	845	1050
	PN 25	17	17	19,5	21	22	34	34,5	36,5	67	185	205	432	-----	-----
	PN 40	17	17	19,5	21	22	34	34,5	36,5	71	190	210	440	-----	-----

Dembla

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