

Air Valves

Plastic - Brass

It is called the Air Valve which determines the air - water balance in the system. During the filling of the pipeline; The air in the line evacuates the air in the system quickly. Due to various reasons, it allows small quantities of air to accumulate in the pipeline during operation, under pressure.

During the evacuation of the pipeline, air is sucked into the pipe to prevent vacuum formation, and cavitation hazards are prevented by balancing the system pressure with the atmospheric pressure.

Plastic Air Valves are three types;

1. Single Effect (Kinetic) Plastic Air Valve $\frac{1}{2}$ " - $\frac{3}{4}$ " - 1" and 2"
2. Double Effect (Automatic) Plastic Air Valve $\frac{1}{2}$ " - $\frac{3}{4}$ " and 1"
3. Tripple Effect (combination) Plastic Air Valve 2"

Order Information

Please provide the following information in order

Maximum mains / operating pressure bar

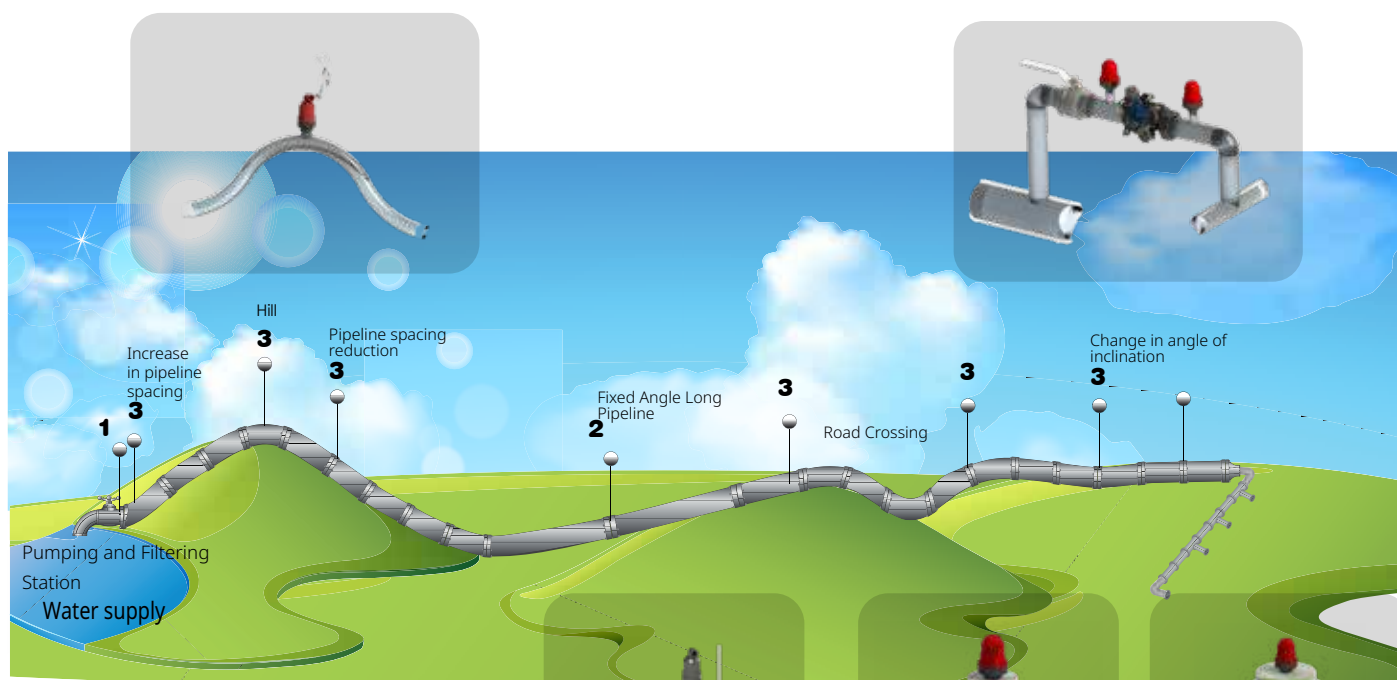
Main pipeline diameter mm

Valve connection type



Plastic Air Valves Usage Locations;

1. In agricultural irrigation, (every 400-500 mt on straight lines on the main line, at the beginning of the slope, 400-500 mt at the upward inclines at the peak points, before the beginning of the deflection and before the end of the line and before the irrigation valve (At the points indicated in the figure)
2. In filtration systems, (Disc Filter, Hydrocyclone, Gravel Tank, Automatic Horizontal Filters, etc.).
3. Factory installations in industrial areas, In treatment systems and so on.



Models

1. Single Effect (Kinetic) Air Valves
2. Double Effect (Automatic) Air Valves
3. Tripple Effect (Combination) Air Valves



Hydrasyclon



Gravel Tank



Disk Filter System

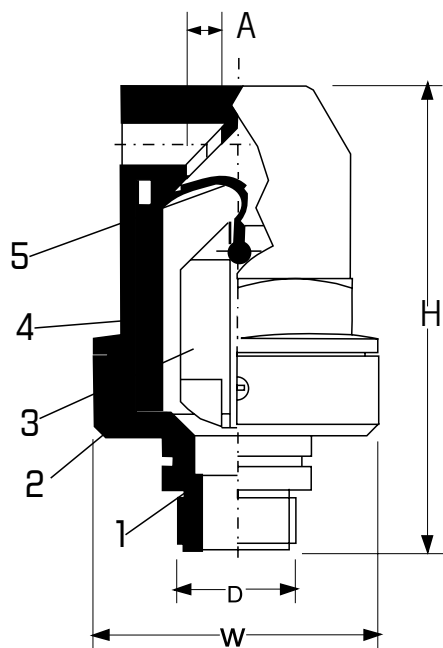
Double Effect (Automatic) Air Valve

Air Valves

1/2" - 3/4" - 1" Double Effect (Automatic) Air Valve

#	Material Name	Type Of Material
1	Body	Glass Reinforced polyamide
2	O-Ring	NBR
3	Float	Polipropilen
4	Cover	Glass Reinforced polyamide
5	Float Tire	EPDM

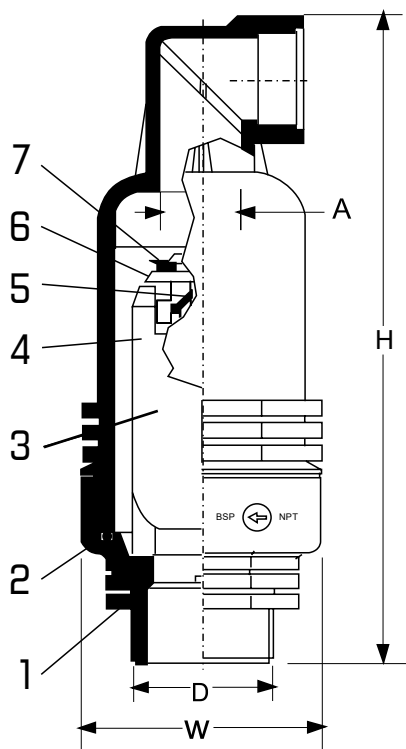
#	Unit	1/2"	3/4"	1"
H	Height (mm)	112	112,75	136,57
W	Width (mm)	58,88	58,88	85,65
D	Connection Diameter	1/2"BSP	3/4"BSP	1"BSP
A	Evacuation Mouthpiece	25mm ²	25mm ²	25mm ²
-	Weight (kg)	0,140	0,141	0,304



2" Tripple Effect (Combination) Air Valve

#	Material Name	Type Of Material
1	Body	Glass Reinforced polyamide
2	O-Ring	NBR
3	Cover	Glass Reinforced polyamide
4	Float	Polipropilen
5	Fork Rubber	EPDM
6	Float Fork	Glass Reinforced polyamide
7	Float Seal	EPDM

#	Unit	2"
H	Height (mm)	243
W	Width (mm)	103
D	Connection Diameter	2" BSP
a	Evacuation Mouthpiece	7mm ²
-	Weight (kg)	0,695
A	Kinetic Nozzle Area	855mm ²



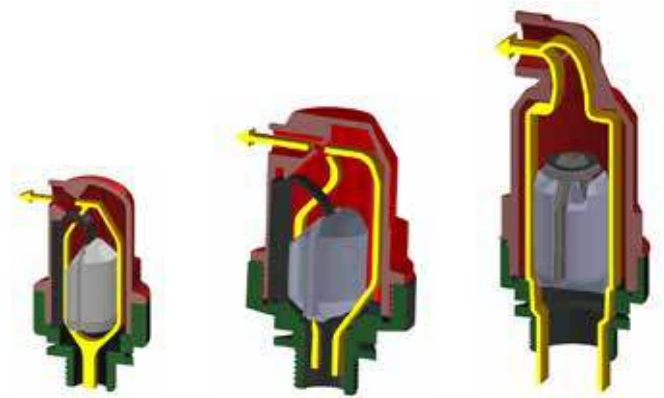
Air Valves

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Discharge Mode

Open Position

Provides rapid evacuation of the high amount of air in the pipeline from the system during the first start of the system



Closed Position

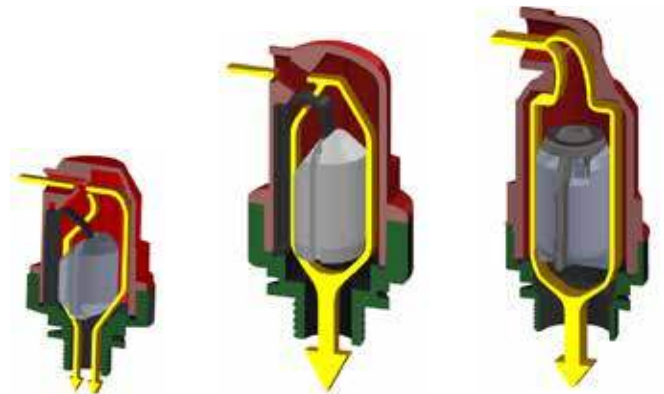
When the water reaches the air valve, the float lifts up and closes the outlet of the air valve



Pressure Stabilization Mode

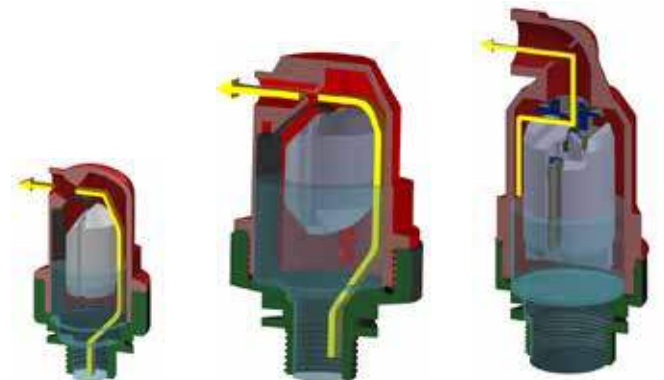
Open Position

During drawing or evacuating the water from the pipeline. The pressure in the line is lower than atmospheric pressure. This condition called vacuum effect, and it causes collapse and cavitation damage in pipes. The float goes down (Open position) and avoids this problem by letting air flow from the outside to the pipeline.



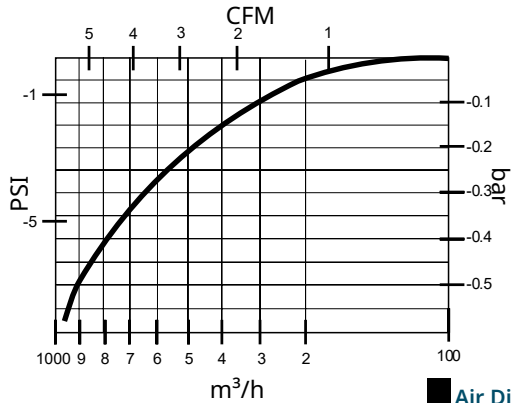
Closed Position

When the system is in service, that is, when the pipeline is under pressure, the low amount of air is dragged with water and collected in certain places such as high parts of the line. The high pressure accumulated air is evacuated with water and the float is partially opened (Modulation position). After evacuation, the float rises again and closes the air valve outlet (Closed position).

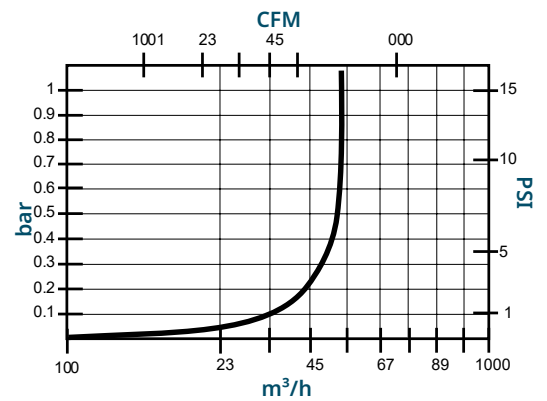


2" Tripple Effect (Combination) Air Valve

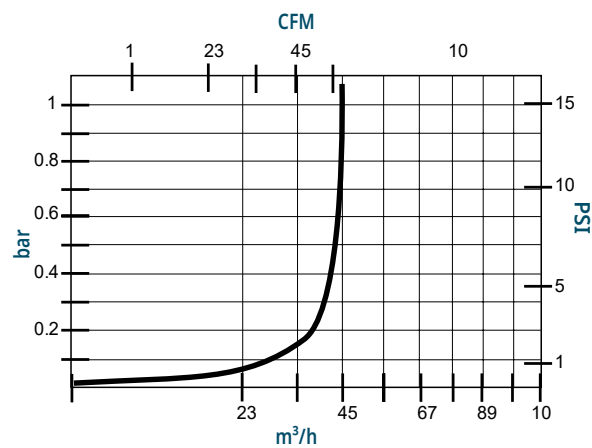
■ Air intake



■ Air Discharge

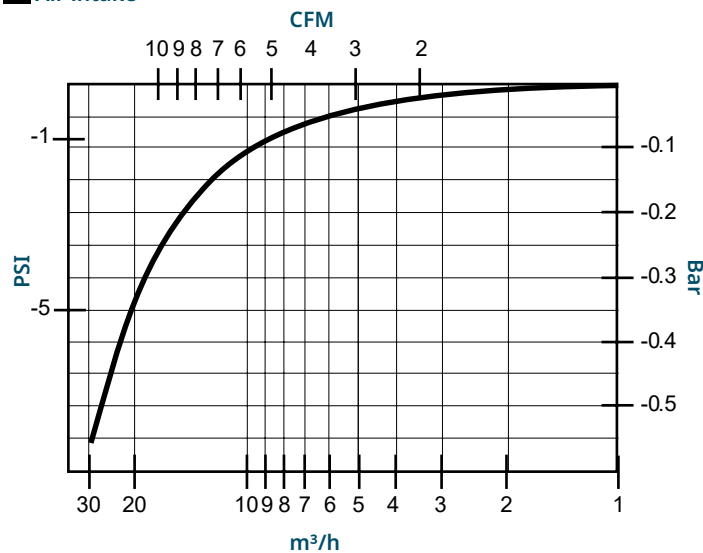


■ Air Discharge -Automatic Valve

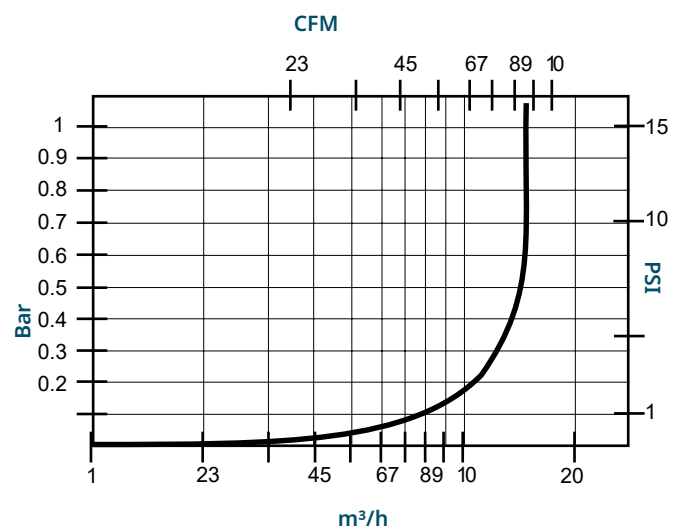


1/2" - 3/4" - 1" Double Effect (Automatic) Air Valve

■ Air intake



■ Air Discharge



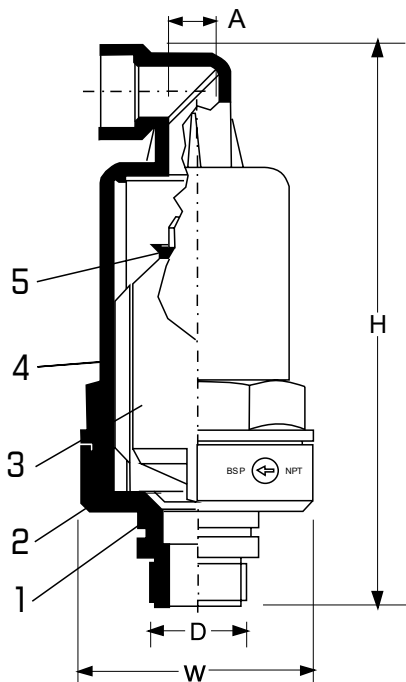
Single Effect (Kinetic) Air Valves

Plastic - Brass

1/2" - 3/4" - 1" Single Effect (Kinetic) Air Valve

#	Material Name	Type of Material
1	Body	Glass Reinforced polyamide
2	O-Ring	NBR
3	Float	Polipropylene
4	Cover	Glass Reinforced polyamide
5	Float Tire	EPDM

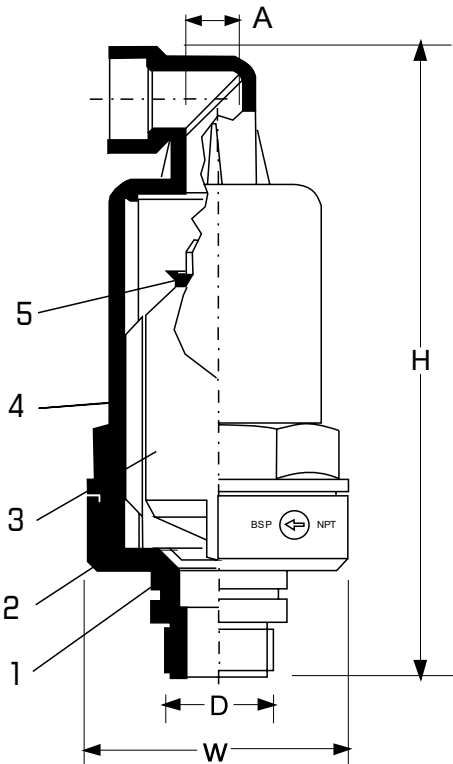
#	Unit	1/2"	3/4"	1"
H	Height (mm)	111,98	112,12	191,60
W	Width (mm)	58,88	58,88	85,65
D	Connection Diameter	1/2"BSP	3/4"BSP	1"BSP
A	Evacuation mouthplace	314 mm²	314 mm²	314 mm²
-	Weight (kg)	0,138	0,141	0,364



2" Single Effect (Kinetic) Air Valve

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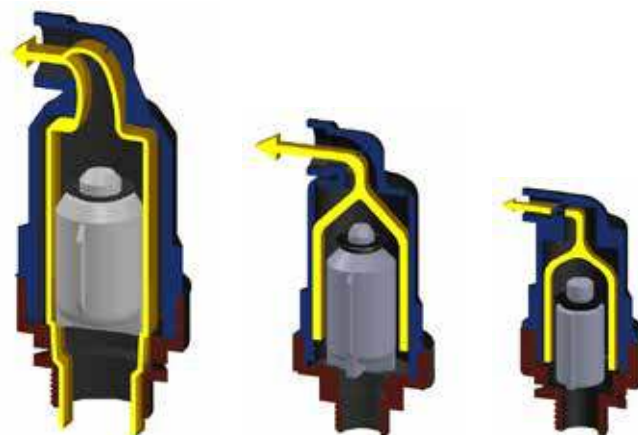
#	Unit	2"
H	Height (mm)	243
W	Width (mm)	103
D	Connection Diameter	2"BSP
A	Evacuation mouthplace	855 mm ²
-	Weight (kg)	0,672



Discharge Mode

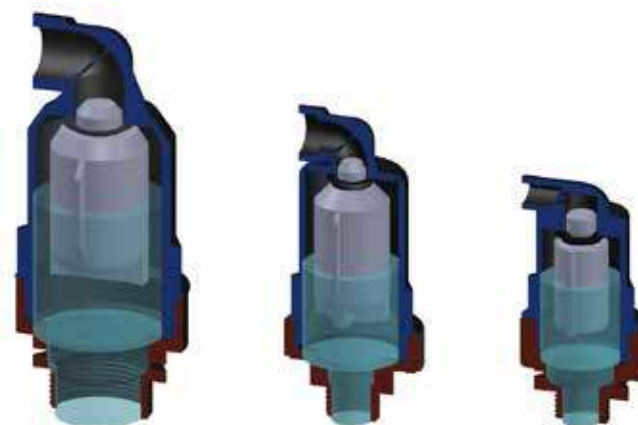
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Closed Position

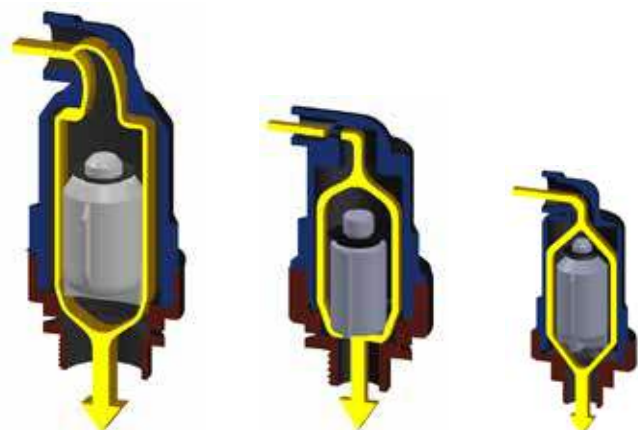
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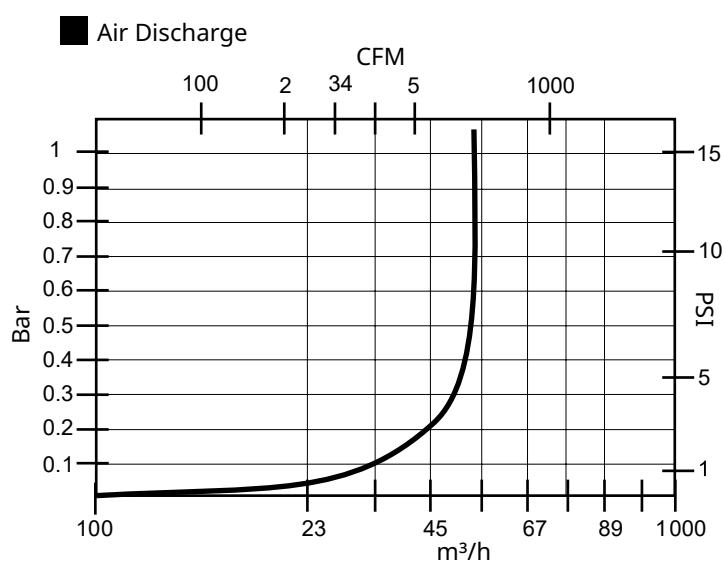
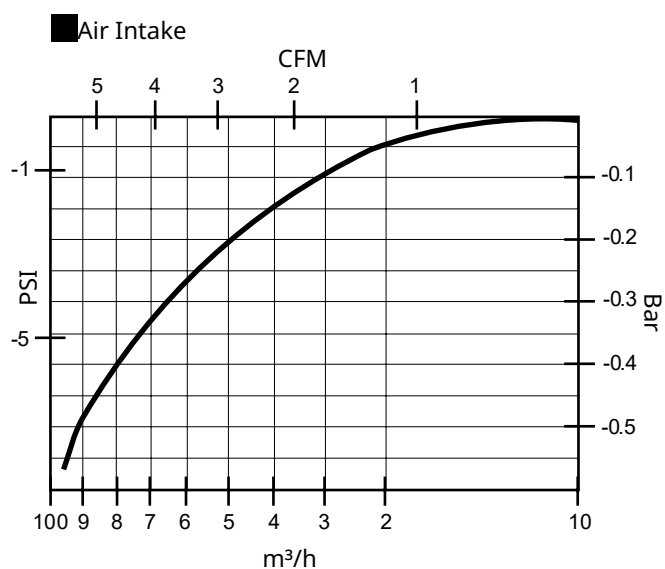
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2" Single Effect (Kinetic) Air Valve



1/2" - 3/4" - 1" Single Effect (Kinetic) Air Valve

