tayfur
su sistemleri

2021



Plastic Air Valves











TYPHOON®





About Us

Tayfur Water Systems, which was established by Tayfun Yazaroğlu in 2004 in Izmir. We continue our activities as “Tayfur Water Systems Machinery Engineering Industry and Trade Inc.” since 2017.

Our company offers its products and experiences to the local market and international market. Tayfur Water Systems, while strengthening its recognition abroad, continues to expand its production, sales and marketing activities every day.

Our engineers and technical staff, technological infrastructure, manufacturing, sales, project-consulting, contracting and service planning meets the requirements of the sector.

Our company manufactures “Typhoon” brand, hydraulic control valves, plastic hydraulic control valves, backwash valves, plastic backwash valves, impact-free dynamic suction cups, plastic suction cups, bottom clamps, filter reverse flushing control devices. It is progressing towards becoming a strong brand in both domestic and foreign markets by meeting the special demands of its domestic and foreign customers.



Our Quality Policy

In order to be a leader in quality in the sales, marketing and service sector by complying with legal conditions and to comply with the requirements of Quality Management System in order to meet the needs and expectations of our customers, to continuously improve the efficiency and to not compromise the quality under any circumstances.

Our Mission

To be a company aiming to present its synergy in the national and international market which has always taken its responsibilities, desires and expectations of our customers in a correct, reliable and timely manner, within the framework of high quality standards, transforming efficiency and competition into an advantage...

Our Vision

To be a leading, innovative, powerful and reputable enterprise in its sector.

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 two types;

1-Single Effect (Kinetic) Plastic Air Valve ½" - ¾" - 1" and 2"

2-(Automatic) Plastic Air Valve ½" - ¾" - 1" and 2"

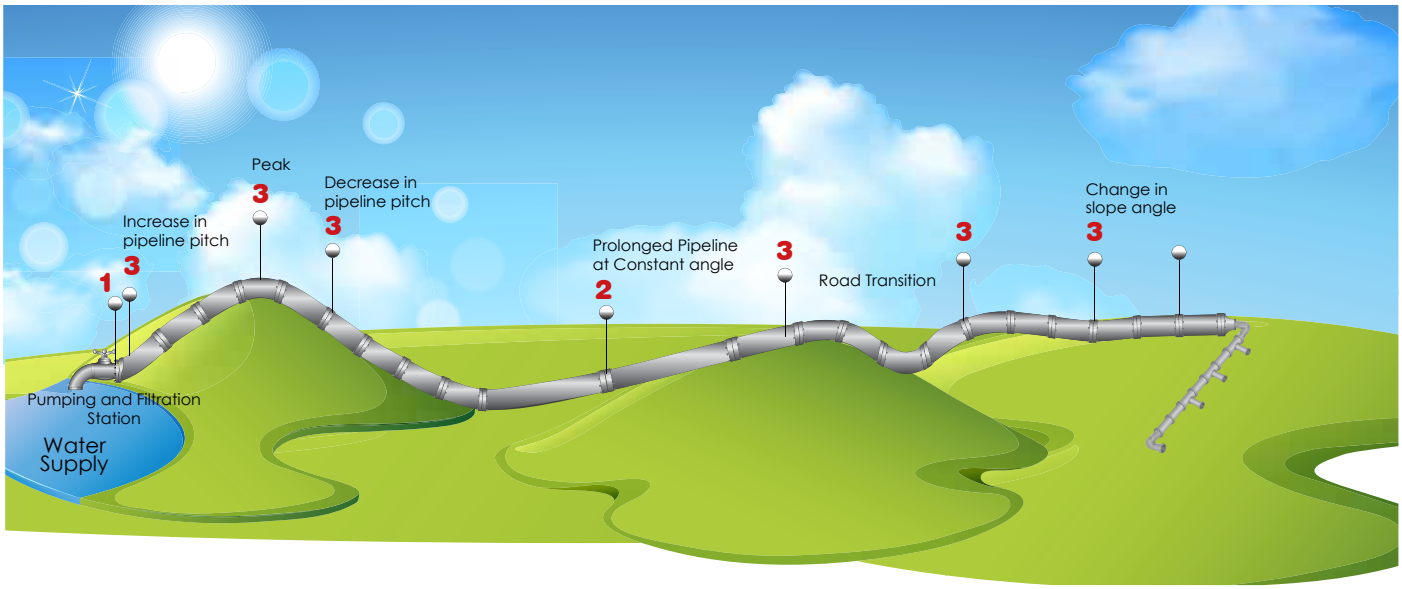
Connections; ½" - ¾" - 1" and 2" threaded





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.

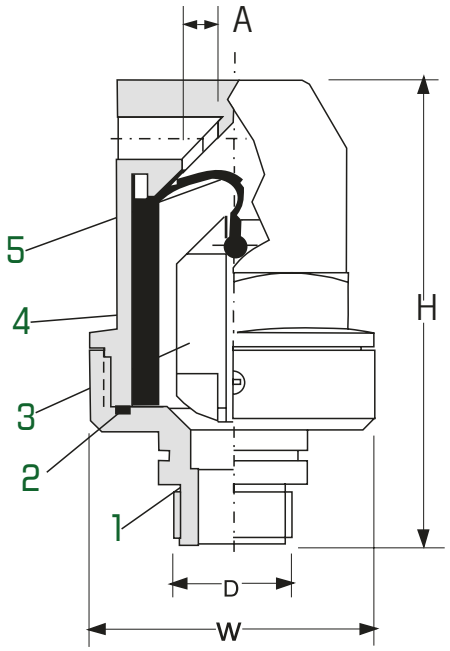


Models

1 Single-Spherical / Single Function Air Valves
2 Single-Spherical / Double Function Air Valves
3 Double-Spherical / Triple Function Air Valves

1/2" - 3/4" - 1" Double Effect (Automatic) Air Valve (PN10)

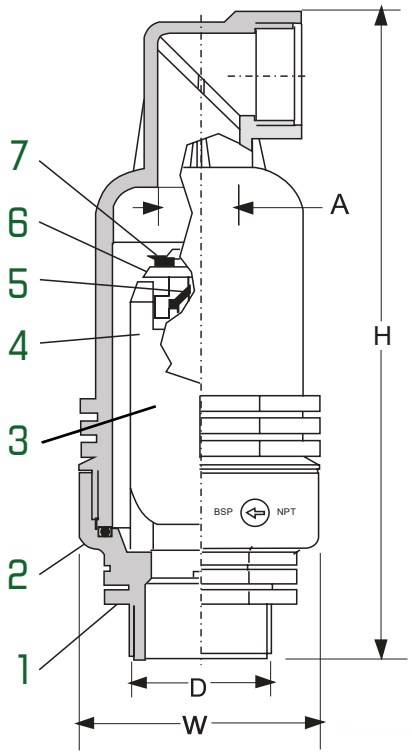
#	Material Name	Feature
1	Body	Glass Reinforced polyamide
2	O-Ring	NBR
3	Float	Polipropilen
4	Cover	Glass Reinforced polyamide
5	Float Tire	EPDM



#	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	25mm²	25mm²	25mm²
-	Weight (kg)	0,140	0,141	0,304



2” Combination Air Valve (PN10)



#	Material Name	Feature
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

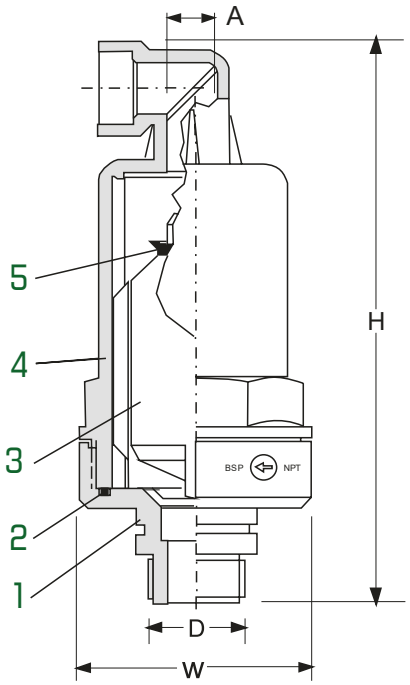
#	Unit	2”
H	Height (mm)	240,59
W	Width (mm)	103,33
D	Connection Diameter	2” BSP
a	Evacuation Mouthpiece	7mm²
-	Weight (kg)	0,695
A	Evacuation Mouthpiece	855 mm²



1/2” - 3/4” - 1” Single Effect (Kinetic) Air Valve (PN10)

#	Material Name	Feature
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	2/4”BSP	1”BSP
a	Evacuation mouthplace	314 mm²	314 mm²	314 mm²
-	Weight (kg)	0,138	0,141	0,364





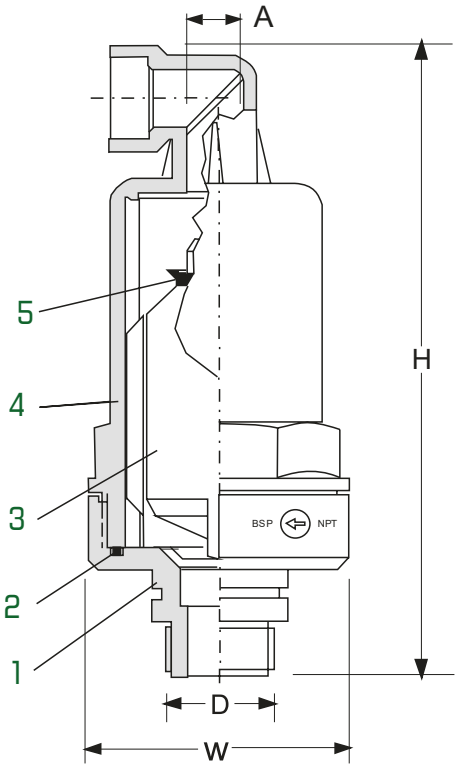




2" Single Effect (Kinetic) Air Valve (PN10)

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

#	Unit	2"
H	Height (mm)	240,59
W	Width (mm)	103,33
D	Connection Diameter	2"BSP
a	Evacuation mouthplace	855 mm²
-	Weight (kg)	0,672

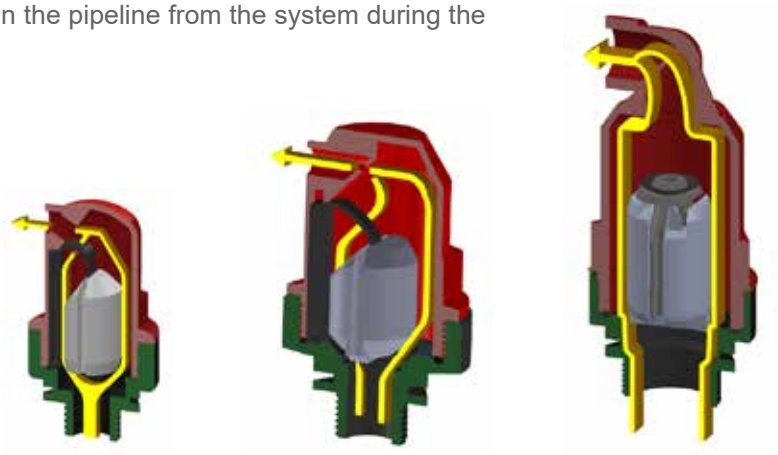




Discharge Mode:

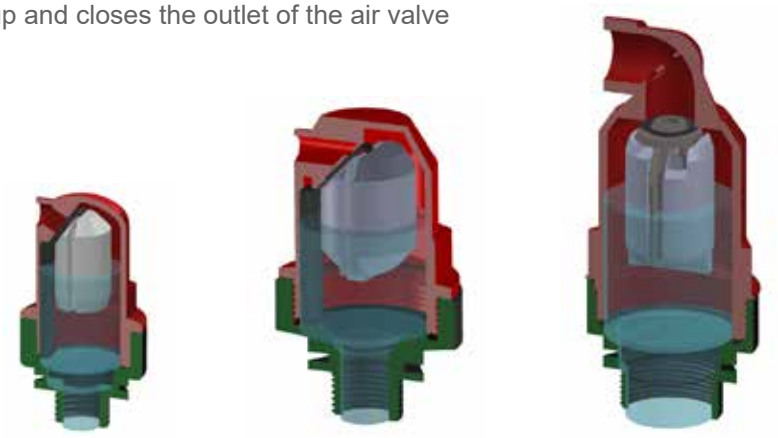
Open Position

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



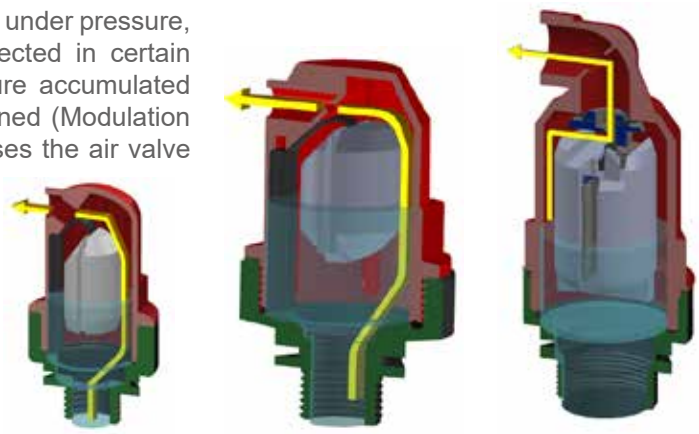
Pressure Stabilization Mode

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 its 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.

Modulation Mode:

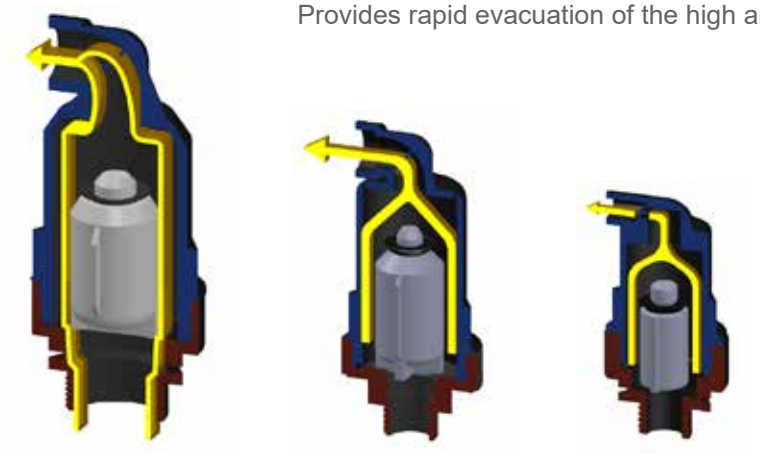
When the system is in service, that is, when the pipeline is under pressure, the low amount of air is dragged with water and collected in certain places such as high parts of the line. The high pressure accumulated air is evacuated with water and the float is partially opened (Modulation position). After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



Discharge Mode:

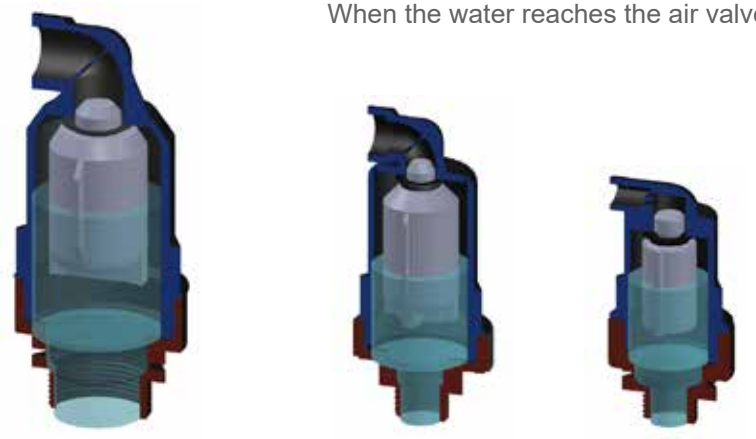
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Closed Position

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



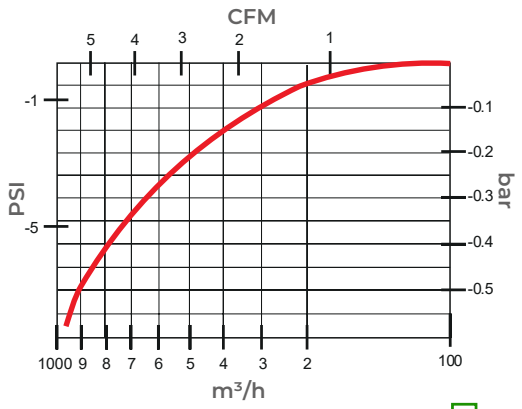
Pressure Stabilization Mode :

Open Position

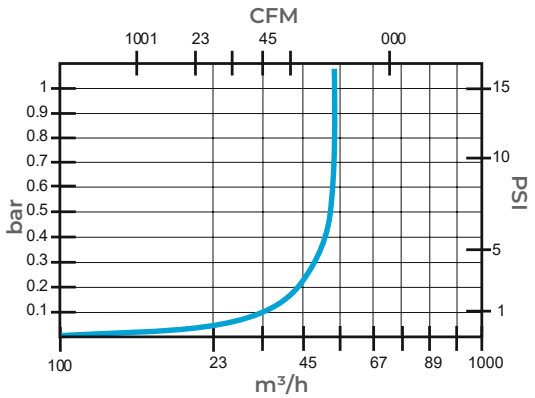
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2” Combination Air Valve (PN10)

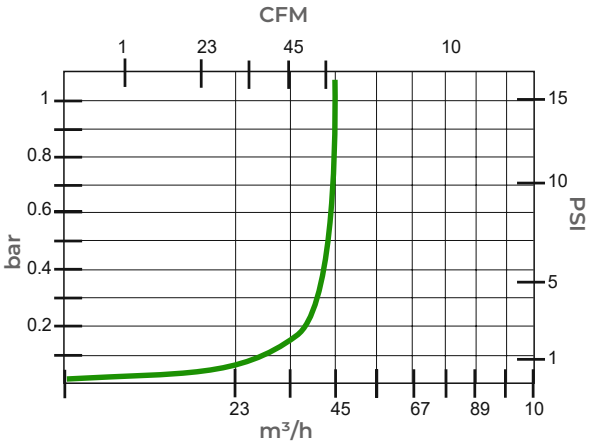
Air Intake



Air Discharge

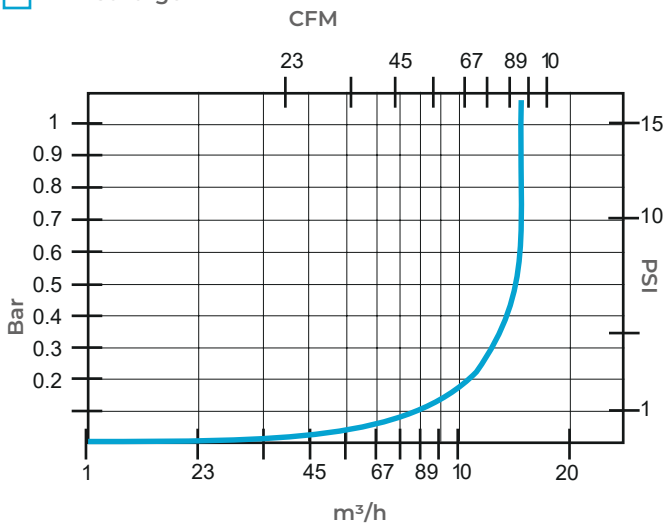


Air Discharge - Automatic Valve

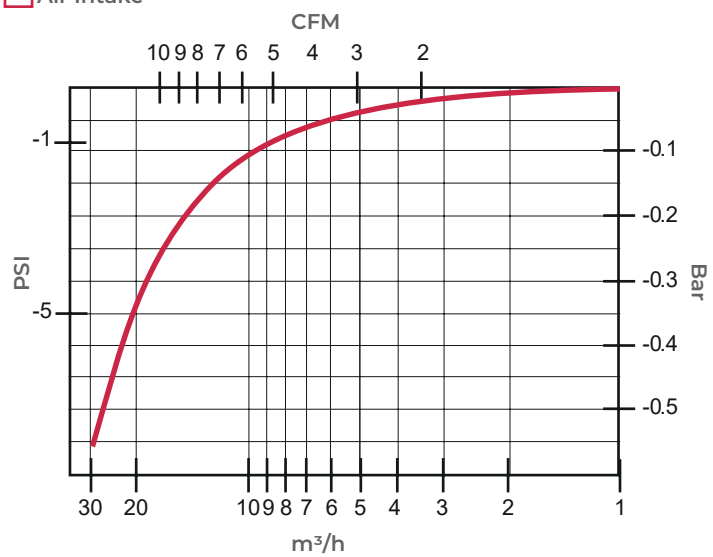


1/2” - 3/4” - 1” Double Effect (Automatic) Air Valve (PN10)

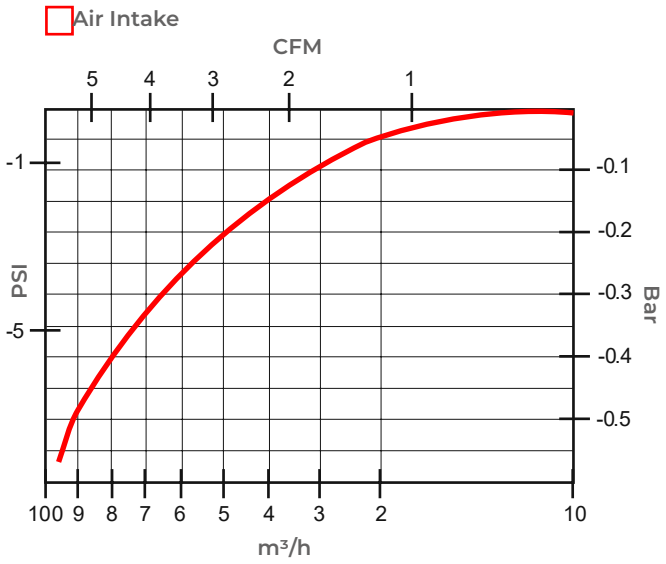
Air Discharge

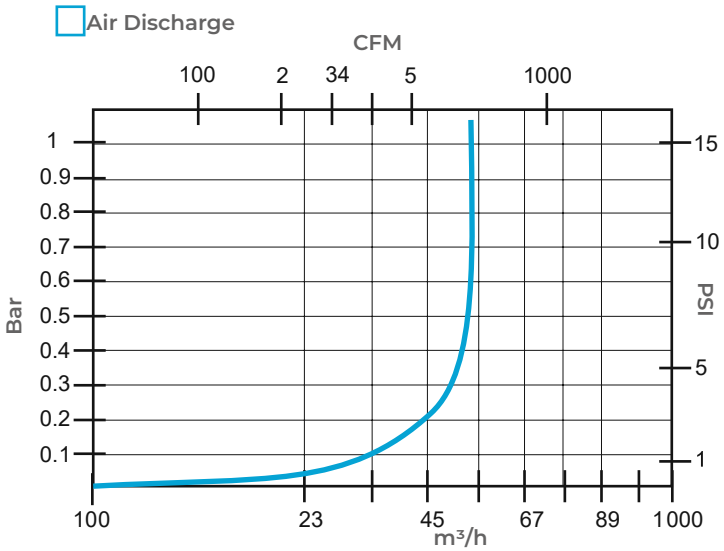


Air Intake

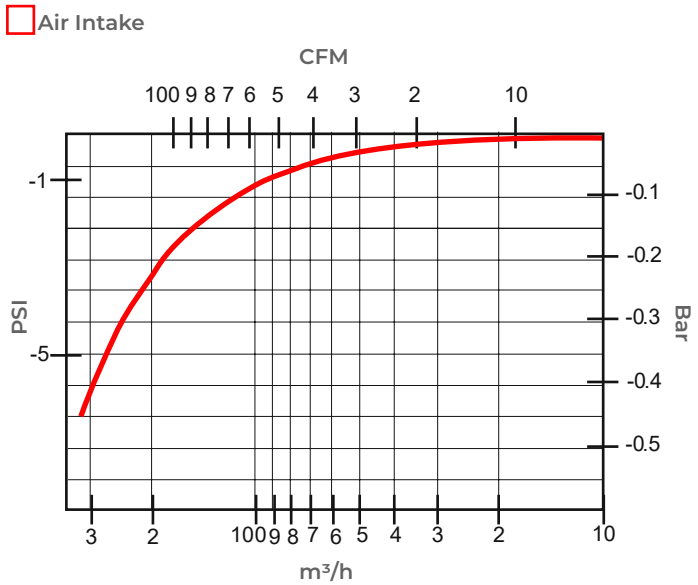


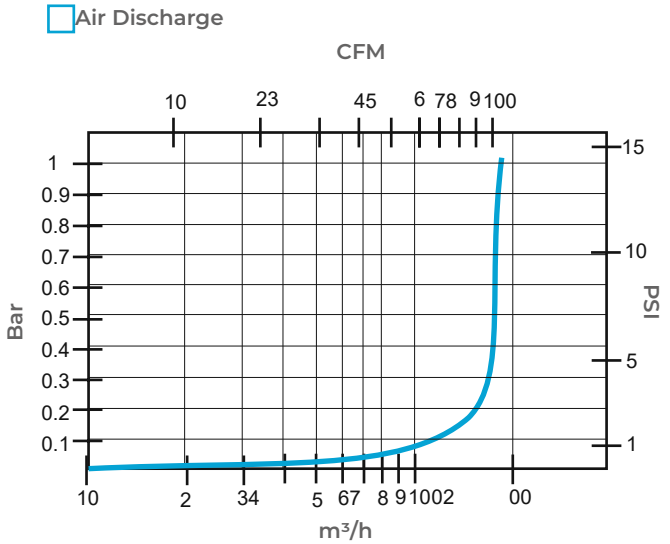
2” Single Effect (Kinetic) Air Valve (PN10)





1/2” - 3/4” - 1” Single Effect (Kinetic) Air Valve (PN10)





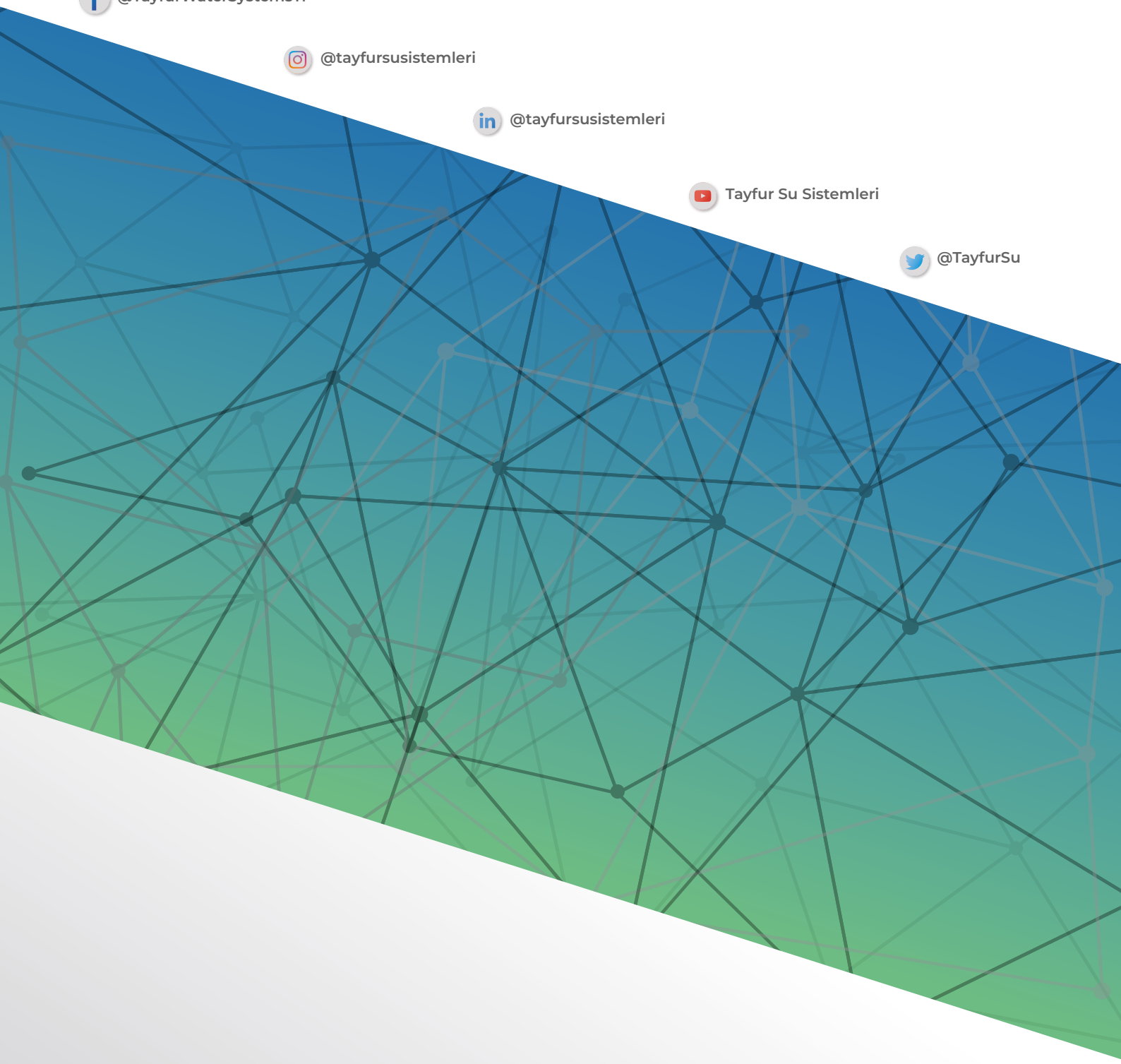
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