



PLASTIC & BRASS AIR VALVES

 **tayfur**
water systems



Tayfur Water Systems, founded by Tayfun Yazarođlu in 2004 in İzmir, has been established by Tayfur Su Sistemleri Makine Mühendislik Sanayi ve Ticaret A.Ş. As well. Our company offers its products and experiences in local market and international market.

Tayfur Water Systems continues to expand its production, sales and marketing activities with each passing day while strengthening its reputation abroad.

Our company is producing its own brand TYPHOON, Hydraulic Control Valves, Plastic Hydraulic Control Valves, Back Flushing Control Valves, Plastic Back Flushing Control Valves, Non Slam Dynamic Air Release Valves, Plastic Air Release Valves, Foot Valves, Filter Back Flushing Control Devices, It meets the special demands of its customers both at home and abroad and is on its way to become a strong brand both in domestic and foreign markets.





Our Quality Policy

To be a leader in the quality of irrigation systems equipment and materials in the sales, marketing and service sectors and to meet the requirements and expectations of our customers, to comply with the requirements of the Quality Management System, to continuously improve its efficiency and to not compromise in any circumstances.

Our Mission

The responsibilities we always receive are those of our customers' wishes and anticipations that are accurate, reliable and timely; To be a company that aims to offer synergy in national and international markets, which transforms efficiency and competitiveness advantage in the framework of high quality standards ...

Our Vision

Being a leading, innovative, strong and respected organization in the sector.

PLASTIC AIR VALVES

It is called the Valve Air Valve which determines the air - water balance in the system.

BRASS AIR VALVES

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 $\frac{1}{2}$ " - $\frac{3}{4}$ " - 1" and 2" Single Effect

2-(Automatic) Plastic Air Valve Available in $\frac{1}{2}$ " - $\frac{3}{4}$ " - 1" and 2" models.

Plastic Air Valve Connections;
 $\frac{1}{2}$ " , $\frac{3}{4}$ " , 1" and 2" threaded connections.



Plastic Air Valves Usage Locations;

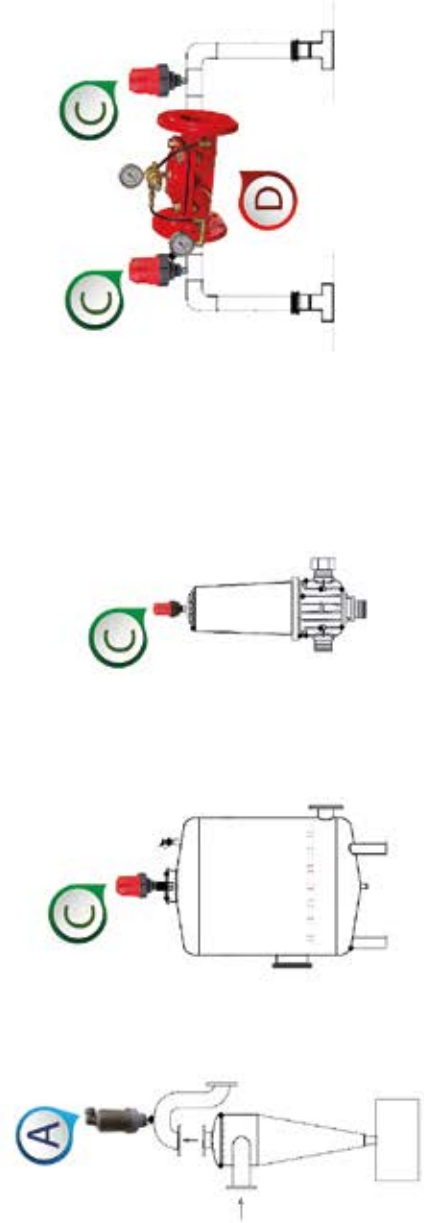
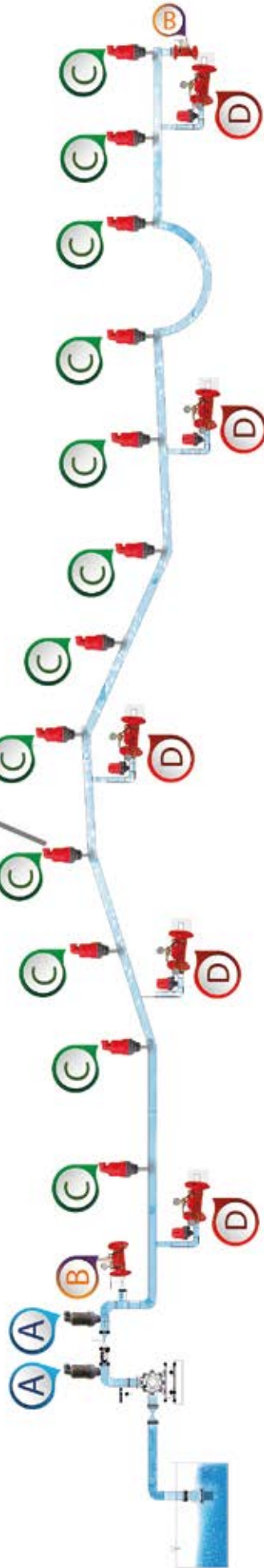
1-In agricultural irrigation, (every 400-500 mt on straight lines on the main line, at the beginning of the slope, 400-500 mt at the upward inclines at the peak points, before the beginning of the deflection and before the end of the line and before the irrigation valve (At the points indicated in the 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.



PLASTIC AIR VALVE



Hydrocyclone + Gravel Tank + Disc Filter System

Plastic Air Valves Application Example

1/2" - 3/4" - 1" Plastic Automatic Air Valves

PN-16

The plastic automatic air valve operates in 3 modes.

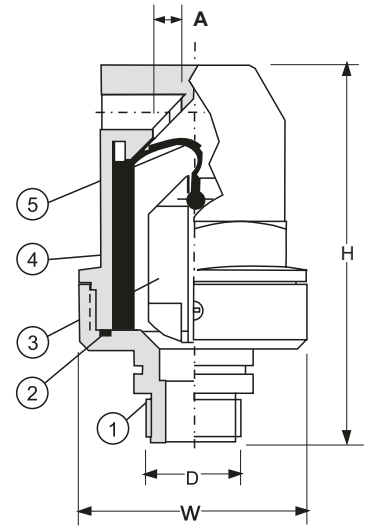
1- Discharge Mode: Fill the air piping system with a high flow rate of the water in the system. When the water reaches the air vent valve, the float of the valve moves upwards and prevents air from flowing out of the system quickly.

2- System Pressure Balancing Mode: After system air is evacuated, the system balances the difference between the pressurizer and the atmospheric pressure.

3- Air-Water Balance Adjustment Mode: Air is collected in small quantities on piezometric lines or on top of the valve. This allows the water to make a certain pressure and move down with the float of the valve. In this position, the valve of the valve does not close completely. It adjusts the air-water balance by staying as open as part of the air.

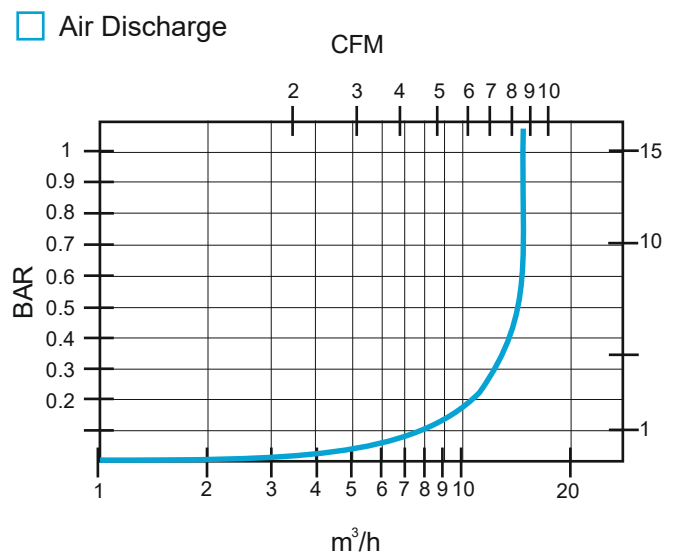
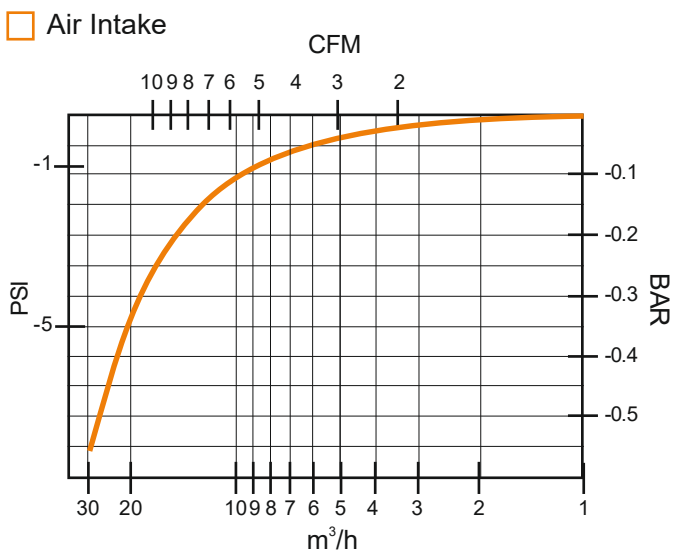
Dimensions

H - Height	133 mm - 113 mm
W - Width	102 mm - 58 mm
D - Connection Diameter	1" - 3/4" - 1/2" BSP
A - Drain Mouth Area	25 mm ²
Weight	0,290 - 0,170 kg



Parts

1	Base	Strengthened Polyamide
2	O-Ring	NBR Rubber
3	Float	Polypropylene
4	Body	GRP
5	Valve Seal	EPDM Rubber



2" Plastic Automatic Air Valve

PN16

The plastic automatic air valve operates in 3 modes.

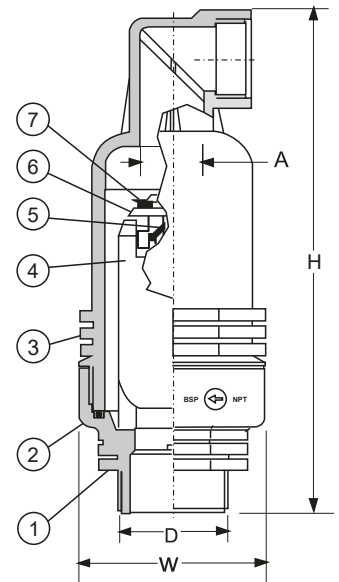
1- Discharge Mode: Fill the air piping system with a high flow rate of the water in the system. When the water reaches the air vent valve, the float of the valve moves upwards and prevents air from flowing out of the system quickly.

2- System Pressure Balancing Mode: After system air is evacuated, the system balances the difference between the pressurizer and the atmospheric pressure.

3- Air-Water Balance Adjustment Mode: Air is collected in small quantities on piezometric lines or on top of the valve. This allows the water to make a certain pressure and move down with the float of the valve. In this position, the valve of the valve does not close completely. It adjusts the air-water balance by staying as open as part of the air.

Dimensions

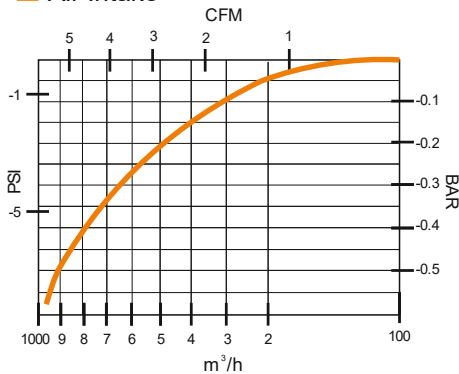
H - Height	241,10 mm
W - Width	102 mm
D - Connection Diameter	2" BSP
a - Auto Nozzle Field	7 mm ²
A - Drain Mouth Area	855 mm ²
Weight	0,65 kg



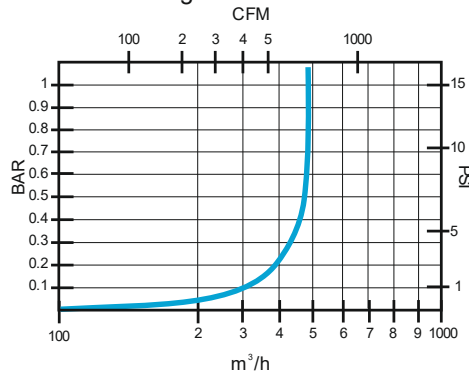
Parts

1	Body	Strengthened Polyamide
2	O-Ring	NBR Rubber
3	Cover	Strengthened Polyamide
4	Float	Polipropilen
5	Forklift	EPDM Rubber
6	Float Fork	Strengthened Polyamide
7	Fork Seal	EPDM Rubber

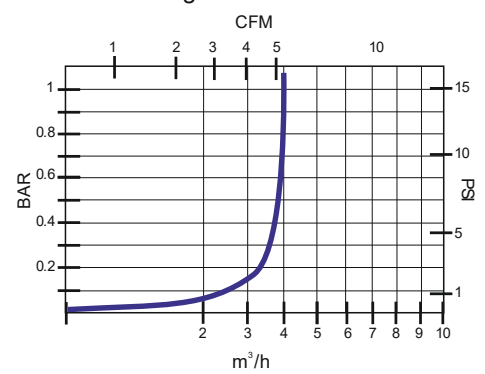
□ Air Intake



□ Air Discharge



□ Air Discharge - Automatic Valve



1" Plastic Air Valve Single (Kinetic)

PN16

The plastic air vent valve operates in 2 modes.

1- Discharge Mode: Fill the air piping system with a high flow rate of the water in the system. When the water reaches the air vent valve, the float of the valve moves upwards and prevents air from flowing out of the system quickly.

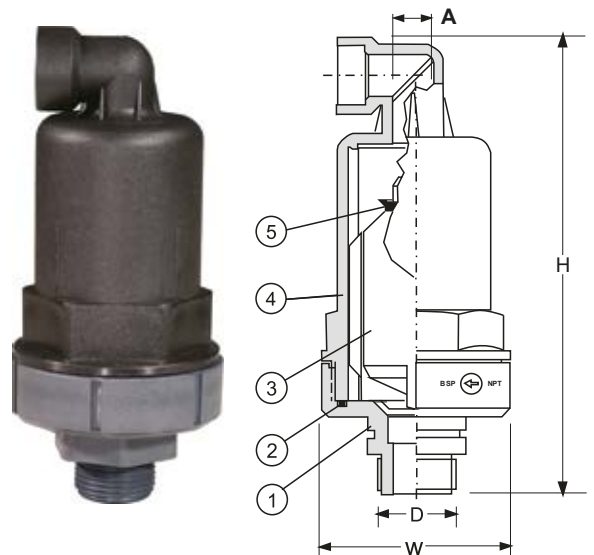
2- System Pressure Balancing Mode: After system air is evacuated, the system balances the difference between the pressurizer and the atmospheric pressure.

Dimensions

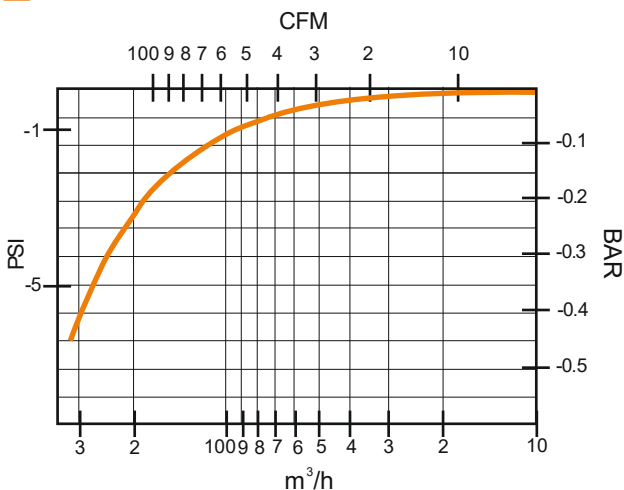
H - Height	273 mm
W - Width	85,98 mm
D- Connection Diameter	1" BSP
A - Drain Mouth Area	314 mm ²
Weight	0,390 kg

Parts

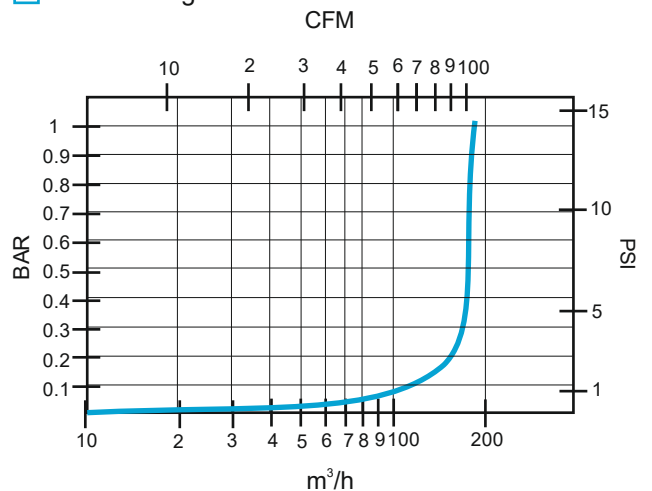
1	Body	Strengthened Polyamide
2	O-Ring	NBR Rubber
3	Float	Polypropylene
4	Cover	GRP
5	Valve Seal	EPDM Rubber



□ Air Intake



□ Air Discharge



2" Plastic Air Valves (Kinetic)

PN16

The plastic air vent valve operates in 2 modes.

1- Discharge Mode: Fill the air piping system with a high flow rate of the water in the system. When the water reaches the air vent valve, the float of the valve moves upwards and prevents air from flowing out of the system quickly.

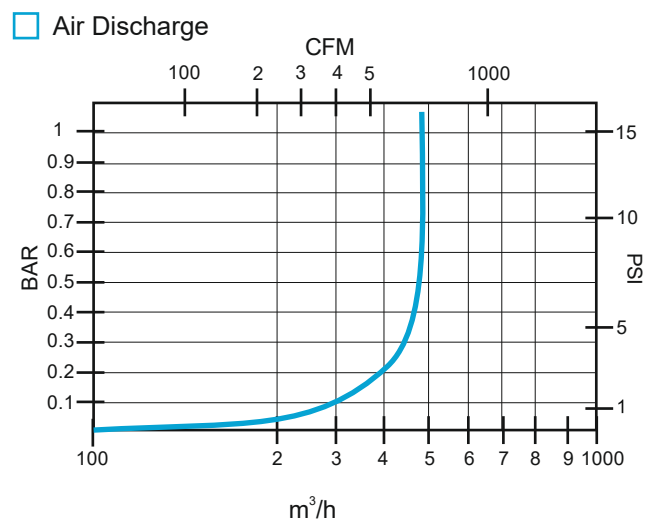
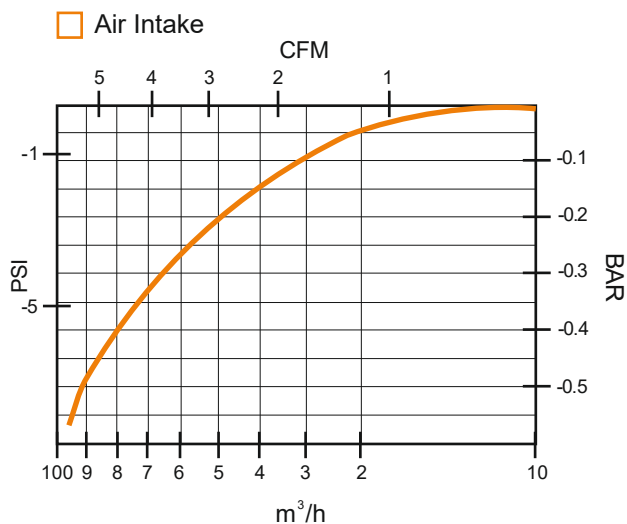
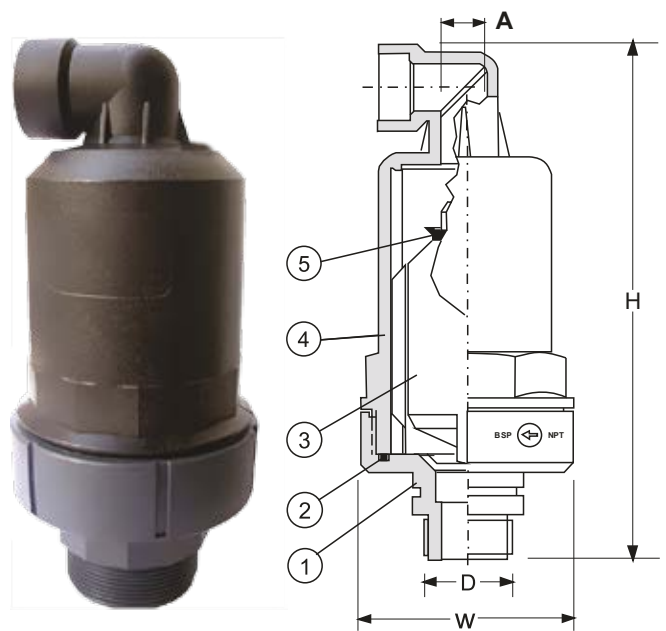
2- System Pressure Balancing Mode: After system air is evacuated, the system balances the difference between the pressurizer and the atmospheric pressure.

Dimensions

H - Height	273 mm
W - Width	102 mm
D- Connection Diameter	2" BSP
A - Drain Mouth Area	855 mm ²
Weight	0,670 kg

Parts

1	Body	Strengthened Polyamide
2	O-Ring	NBR Rubber
3	Float	Polypropylene
4	Body	GRP
5	Valve Seal	EPDM Rubber





PLASTIC AIR VALVE





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