NEW!

S-050 PVDF

Indust.

AUTOMATIC AIR RELEASE VALVE “SEGEV” Made of PVDF

Description

The Automatic Air Release Valve discharges accumulared air from the system while it is under pressure.
In spite of its compact and light weight structure, it has a 12mm^2 orifice that enables it to discharge air at high flow rates and is less vulnerable to obstruction by debris.
The S-050 PVDF is specially designed for industrial applications and provides high ressistance to aggressive fluids.

Applications

For industrial applications:
Can be used with: Ozone, Chemicals, strong Acid and Alkali solutions, Sea Water, Brine, Oil, Fuel and Hydrocarbons.

Operation

The Automatic Air Release Valve, releases entrapped air from pressurized systems.
Pockets of accumulated air may cause the following destructive phenomena:
- Impediment of effective flow and hydraulic conductivity of the system along with a throttling effect as would a partially closed valve. In extreme cases this will cause complete flow stoppage.
- Accelerate cavitation damages.
- High pressure surges.
- Accelerate corrosion of metal parts.
- Danger of a high-energy burst of compressed air.
- Inaccuractes in flow metering.

The valve functions while the system is under pressur, according to the following steges:
1. Liquid fills the system and enters the valve.
2. The float rises and rolls the rubber sealing band to its sealing position.
3. Entrapped air, which accumulates at peaks along the system, rises to the top of the valve, which in turn displaces the liquid in the valve’s body.
4. The float descends, peeling the rolling seal the orifice opens, and the accumulated air is released.
5. Liquid reenters the valve and the float rises, rolling the rubber sealing band to its sealing position.

Note: Automatic Comtinuous Acting Air Release valves are designed to release air as it accumulates at peaks of pressurized systems. They are not normally recommended for vacuum protection to valve large volumes of air, because of the inherently small orifices. For this purpose kineti air valves have much larger orifices.
However Automatic Continuous Acting valves will permit air to re-enter under vacuum conditions. If this is not desirable specify Vacuum check valves.

Main Features

- Working Pressure range: 0.2-10 bar (3-150 psi).
- Testing Pressure: 16 bar (250 psi).
- Working Temperature: 60℃.
- Maximum instantaneous working temperature: 90℃.
- The larger than usual orifice enables it to discharge air at highet flow rates than other Automatic Continuous Acting Air Release valves of its kind.
- The enlarged orifice is not exposed to obstruction by debris.
- The valve’s design Rolling Seal Mechanism, is less sensitive to pressure differential than a dirct float seal. It accomplishes a comparably large, orifice for a wide pressure range (up to 10 bar).
- Light weight, simple and reliable structure.
- The body is made of high strength PVDF, and all operating parts are made of specially selected corrosion resistant material.
- A drainage outlet enables removal of excess fluids.

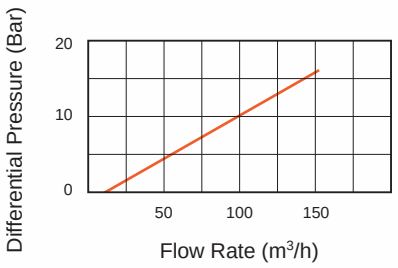
Vavles Selection

- Available in male threaded size: 15mm (1/2”), 20mm (3/4”), 25mm (1”) BSPT/NPT.
- Vacuum Check Valve - The valve is available as a valve that will only release air from the system and will not admit air to the system when negative pressure conditions occur. This characteristic is obtained by adding a check valve to the air outlet.

S-050 PVDF

A.R.I. FLOW CONTROL ACCESSORIES

AIR AND VACUUM FLOW RATE

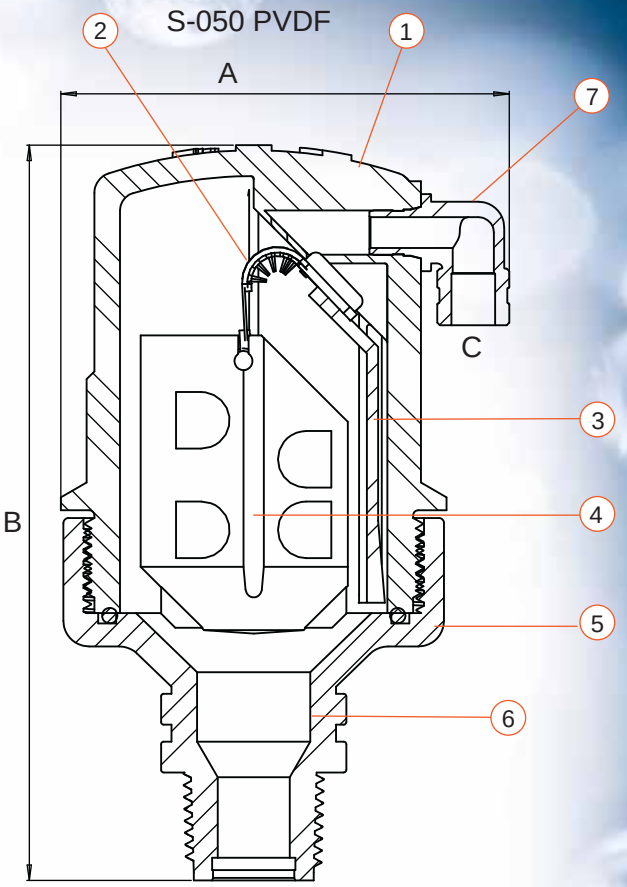


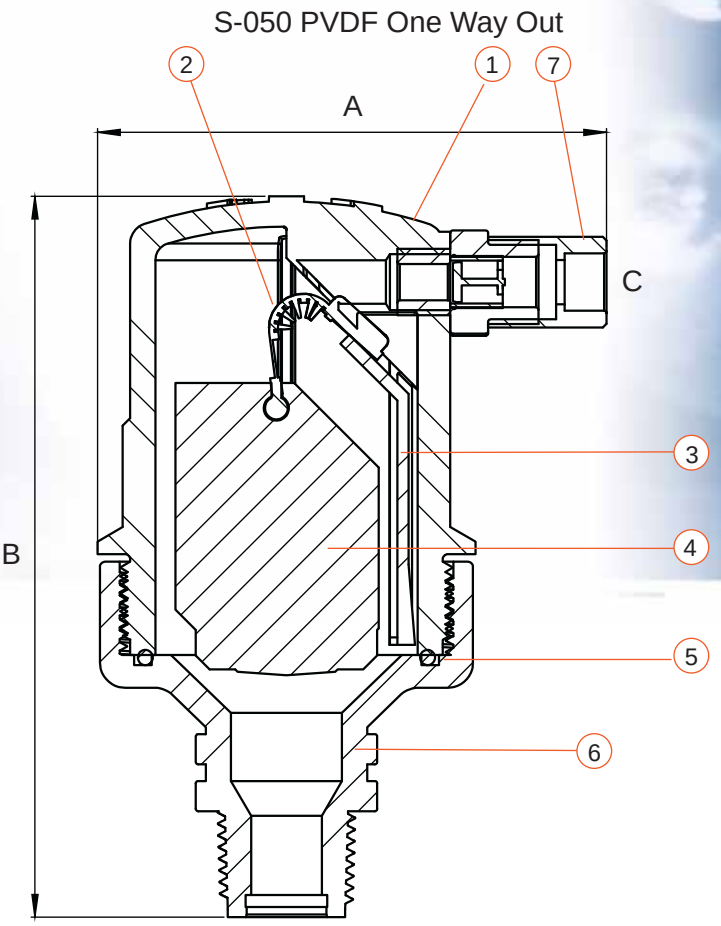
DIMENSIONS AND WEIGHT

	Dim. mm. A	B	Weight Kg.	orifice Area mm²
S-050 PVDF	87	140	0.4	12
S-050 PVDF One Way Out	101	140	0.4	12

PARTS LIST SPECIFIATIONS

No.	Part	Material
1.	Body	PVDF
2.	Rolling Seal	Viton
3.	Clamping Stem	ASA
4.	Float	Foamed ASA
5.	O-Ring	Viton
6.	Base	PVDF
7.	Drainage Outlet/Check Valve	Polypropylene





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