

# ARV-1-A

## AUTOMATIC AIR RELEASE VALVE DN25



The ARV-1-A is a automatic air release valve. Its function is to allow air to be expelled from the pipeline during filling, and air to be admitted into the pipeline during emptying.

### ADVANTAGES

- ▷ Designed to efficiently extract air trapped in pipes, filters, tanks and other equipment which must work without the presence of air.
- ▷ The valve has one seal, which expels both kinetic and residual air automatically, and this function is not affected by water pressure.
- ▷ Continuous and automatic operation.
- ▷ Efficient in design; with minimal parts for ease of maintenance.
- ▷ Its exclusive Y-shaped discharge outlet design allows a much greater air flow than other valves of this type, in both the discharge and the intake phases.
- ▷ The valve seals at very low pressures.
- ▷ The valve is UV stable.

### OPERATIONS

- ▷ When the pipeline is being filled, trapped air is released through the large orifice of the kinetic valve.
- ▷ During emptying of the pipeline, the valve allows air to enter the pipeline through the large orifice.
- ▷ During normal operation the large orifice remains closed while the small orifice allows small amounts of trapped air to be released through the valve.
- ▷ The valve mechanism is designed to absorb small changes in pressure, which prevents the small orifice from continually opening. This maintains a constant air gap between the sealing mechanism and the medium.

### TECHNICAL DATA

Pressure Classes	PN16	
Maximum working Pressure	16 Bar (232 PSI)	
Temperature Range	0°C to 80°C	
Connection	25mm Male BSP	25mm Male NPT
Volume of Air Extracted	35m <sup>3</sup> /h at 1 bar	
Inlet Size	25mm	
Outlet Size	6mm	
Weight	0.3kg	
Height	133mm	
Width	80mm	



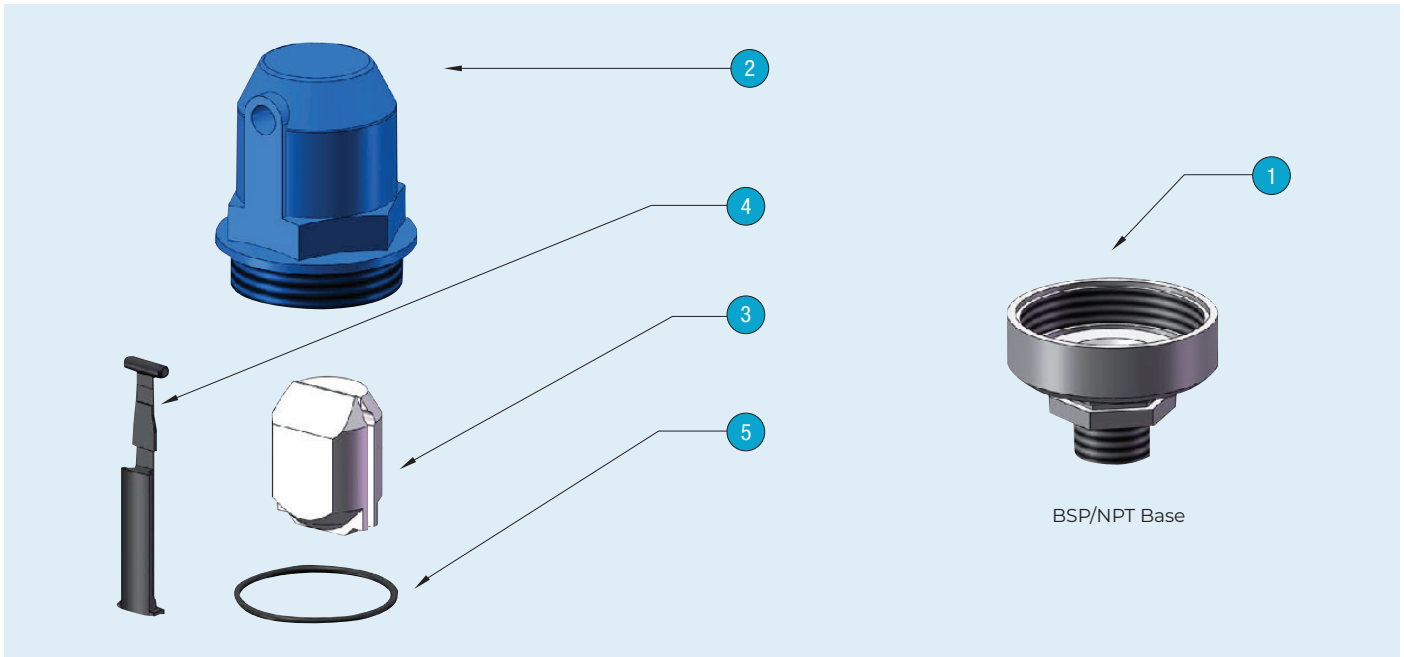
# ARV-1-A

## AUTOMATIC AIR RELEASE VALVE

### MATERIAL SPECIFICATIONS & PARTS LIST

NO.	DESCRIPTION	MATERIAL
1	Base	Fibreglass-Reinforced Polyamide
2	Body	Fibreglass-Reinforced Polyamide
3	Float	Polypropylene
4 *	Seal	EPDM
5 *	O Ring	NBR

\* Spare Parts

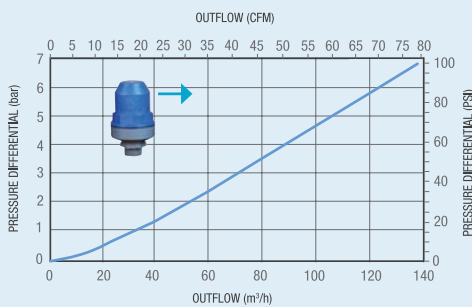


### INSTALLATION

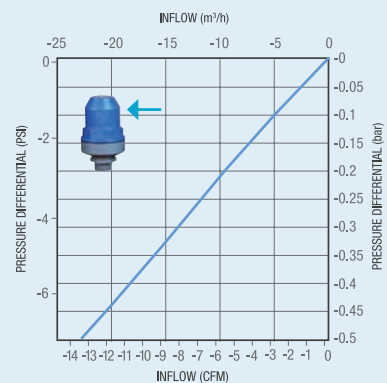
- ▷ For correct operation, the valve should always be in a vertical position.
- ▷ It is recommended to install a manual ball valve under the ARV, in order to make maintenance and repair operations easier without shutting the whole system.
- ▷ For correct operation, valves must undergo regular routine checks. The check should include the cleaning of the internal components and inspection of the seal conditions.

### AIR INFLOW & OUTFLOW

#### Air OUTFLOW Main Seal



#### Air INFLOW Main Seal



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