ASVIN COMBINATION AIR AND VACUUM RELEASE VALVE

Asian Industrial Valves and Instruments manufactures Air Release Valve, Vacuum Release Valve and Combination Air Vacuum Release Valve under brand name ASVIN. ASVIN Combination Air Valve has the features of both an Air release Valve and an Air & Vacuum valve. The Air Release component is designed to automatically release small pockets of air to the atmosphere as they accumulate along a pipeline or piping system when it is full and operating under pressure. The Air & Vacuum component is designed to automatically discharge or admit large volumes of air during the filling or draining of a pipeline or piping system. This valve will open to relieve negative pressures whenever water column separation occurs. Combination Air and Vacuum Valves are simply an economical and practical combination of the Air/Vacuum Valves and the Air release valve in one body configuration. Typically, these Air Combination Valves are available in smaller sizes, from 1/2 to 3 inch. In larger sizes, the larger Air/Vacuum valve may have the smaller air release valve attached on the side of its valve body.

When water starts filling into pipeline, the Air Valve disc is in open position and releases gas in large amount. When there is no gas and the valve is full of water, SS ball floats upwards to drive the valve disc to close and stop air releasing. During normal working process, small amounts of gas will be produced in the pipeline. When gas collects to a certain amount, water level falls and the float ball drops down. At this moment gas is exhausted from the small hole. When the pump stops working, pipeline will be empty or under negative pressure. The plug then will open quickly and fill in air to ensure pipeline safety.

ASIAN INDUSTRIAL VALVES AND INSTRUMENTS
CHENNAI-600037

The air valve, regardless of type, should be installed as close to the pipe as possible with an isolation valve. Isolation valves need to be full-ported and connected to the top of the pipeline to facilitate maintenance.

Features

- Orifice sizes: (1/16" to 1")
  Air and Vacuum DN 100: 3317 mm² & automatic 12 mm².
  Air and vacuum 200 NB: 17662 mm² & automatic 12 mm².
  Air and vacuum 250 NB: 31400 mm² & automatic 12 mm².
  Air and vacuum 300 NB: 49087 mm² & automatic 12 mm².
- The enlarged orifice is less exposed to obstruction by debris
- The large orifice in the automatic valve releases large volumes of air at high flow rates when the line is under pressure
- The automatic valve's rolling seal mechanism design is less sensitive to different pressures than a direct float seal, thus enabling a one size orifice for a wide pressure range
- Reliable operation reduces water hammer incidents
- Dynamic design allows for high velocity air discharge while preventing premature closure
- Special orifice seat design with a combination of bronze and EPDM rubber ensures long-term maintenance-free operation
- The discharge outlet enables removal of excess fluids
- Air and vacuum air valve with body and cover of ductile iron with blue fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901
- Automatic valve of high-strength composite material with protective shell of ductile iron

Standards
Designed according to EN 1074-4
Flange drilling to EN1092, PN16

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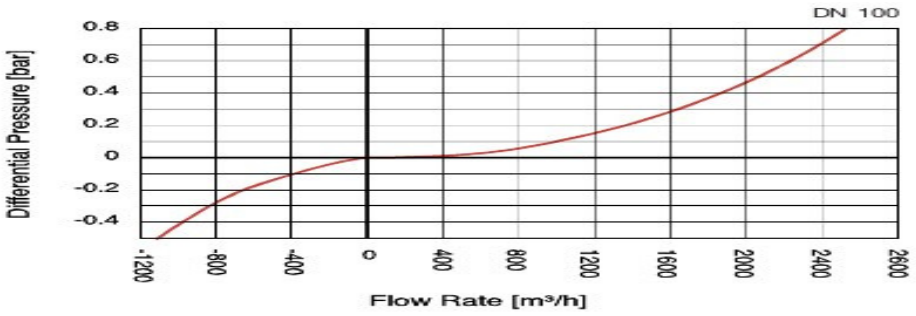
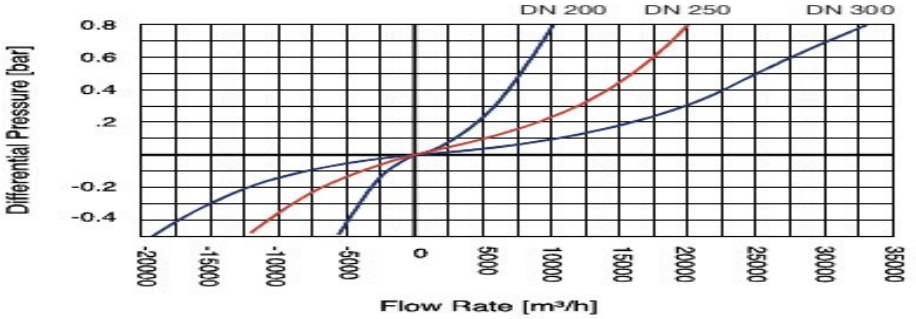
Material Specifications:

Valve Casting – Cast iron/steel body, flange and top ASTM A48 Class 30 or A126 Class B.
Floats – All valves are supplied with stainless steel floats rated at 1,000 psi collapse pressure.
Trim – Stainless steel ASTM A276 or bronze ASTM B62.
Pressure Rating – All valves are rated for 150, 300 psi
Screwed Connection: NPT Inlet size (1/2" to 3")
Maximum Working Pressure (75 psi and up)
Minimum Sealing Pressure (softer seats needed when under 25 psi)
Service (Wastewater or Clean Water)

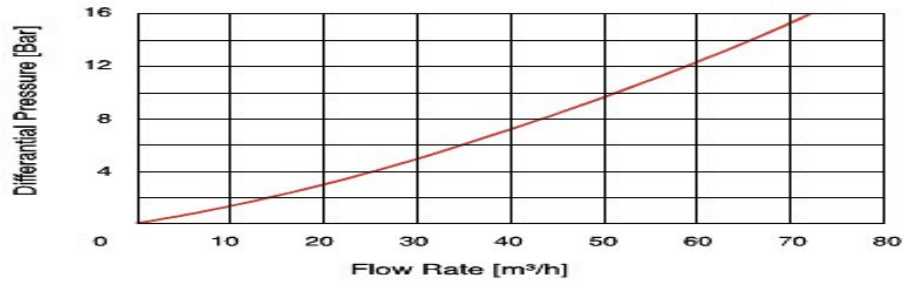
AIR & VACUUM FLOW RATE



AIR & VACUUM FLOW RATE



AUTOMATIC AIR RELEASE FLOW RATE



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