



36 Series Combination Air Release and Vacuum Valve



- Fully Ported Valves - No Restrictions
- Easily Serviced Without Removal From Pipeline
- Engineered For Drip Tight Seal At Low Pressures

The Cla-Val 36 Series Air and Vacuum Valve is a multipurpose valve that combines the operation of both the Model 34 Air Release Valve and Model 35 Air and Vacuum Valve. It functions to exhaust large quantities of air in the pipeline during the filling cycle and to admit air, as necessary, to prevent potentially dangerous vacuum from forming when being emptied either intentionally or as a result of pipeline breakage.

Note: Cla-Val Air Valves are manufactured to meet ANSI-AWWA C512-92 Standards.

Installation

The 36 Series Combination Air Valve should be installed at high points at grade changes within the pipeline.

Mount the unit in the vertical position on top of the pipeline with an isolation valve installed below each valve in the event servicing is required. A vault with adequate venting and drainage should also be provided.

Design / Purchase Specifications

The combination air valve shall combine the operating features of both an air and vacuum valve and an air release valve in one housing. The air and vacuum valve portion shall automatically exhaust large quantities of air during the filling of the pipeline and automatically allow air to reenter the pipeline when the internal pressure of the pipeline approaches a negative value due to column separation, draining of the pipeline, or other emergency. The air release valve portion shall automatically release small amounts of air from the pipeline while it is under pressure.

The inlet and outlet of the valve shall have the same cross-section area. The float shall be guided by a stainless steel guide shaft and seat drip tight against a synthetic rubber seal. 4" and larger valves shall have dual guided shafts of hexagonal cross section and a protective discharge hood.

The float shall be of all stainless steel construction and capable of withstanding maximum system surge pressure without failure. The body and cover shall be concentrically located and of ductile iron and the valve internal parts shall be stainless steel or Buna-N® rubber.

The Combination Air Release and Vacuum Valve shall be manufactured per ANSI/AWWA C512-04 36 Series from Cla-Val., Newport Beach, CA, U.S.A.

Design Specifications

Size Inlet/Outlet

1", 2", 3", 4" NPT or Flanged
3" through 8"
125 lb. flange & ANSI
300 lb. flange & ANSI

Pressure Ratings (see note)

150 psi
300 psi

Temperature Range

Water to 180°F

Note: Specify when operating pressure is below 10 PSI

Materials

Body and Cover:
Ductile Iron ASTM
A536 65-45-12

Float:

Stainless Steel

Plug:

Stainless Steel

Internal Parts:

Stainless Steel

Seal: Buna-N® Rubber

Note: Manufactured to meet ANSI/AWWA C512-04

When Ordering, Please Specify

1. Model Number
2. Inlet/Outlet Size
3. Inlet Pressure Rating
4. Orifice Size

Optional:

For Anti-Shock Air Valve shut-off, order with arrestor check device (suffix "AC").