



# Series 35

## Air and Vacuum Valves



- Provides High Capacity Air Venting and Air Intake
- Stainless Steel Trim Standard
- Stainless Steel Floats Guaranteed
- Fully Ported Valves - No Restrictions
- Designed For Drip Tight Seal At Low Pressures

The Cla-Val Series 35 Air and Vacuum Valve is designed to perform two separate functions. First, it will allow large quantities of air to be exhausted from the pipeline as it is being filled with water. When this air has been vented completely, water will enter the valve causing the float to seal tightly against the seat to prevent water flow. Secondly, if the line is being drained, either intentionally or as a result of pipeline breakage, the valve responds to the loss in pressure and opens. This allows air to re-enter the pipeline and prevents potentially damaging vacuum from developing.

Note: The Series 35 does not open under pressure to exhaust small quantities of air which may collect at high points during system normal operation. The Series 34 Air Release Valve is required for this function.

### Installation

Series 35 Air and Vacuum Valves should be installed at high points or at grade changes within the pipeline. Mount the unit in the vertical on top of the pipeline with isolation valve below each valve in the event servicing is required. A vault with adequate venting and drainage should also be provided.

### Purchase Specifications

The air and vacuum valve shall be able to automatically exhaust large quantities of air during filling of a pipeline and allows air to re-enter pipeline during the draining or when a negative pressure occurs.

The inlet and outlet of the air and vacuum valve shall have the same cross-section area as the pipe size. The float shall be guided by a stainless steel bottom guide shaft. The 4" and larger valve floats shall have top and bottom guide shafts of hexagonal cross section and have a protective steel discharge hood.

The float shall be of all stainless steel construction guaranteed to withstanding the design system surge pressure without failure. The body and cover shall be concentrically located and of ductile iron and the valve internal parts shall be of Stainless Steel with Buna-N® rubber seat.

The Air and Vacuum Valve shall be manufactured per ANSI/AWWA C512-04, Series 35 from Cla-Val, Newport Beach, CA USA.

### Design Specifications

#### Sizes

1/2", 1", 2", 3" NPT  
4" through 12"  
125 lb. flanged ANSI Rated  
250 lb. flanged ANSI Rated  
14" through 24"

#### Pressure Ratings

175 psi  
300 psi

#### Temperature Range

Water to 180°F

Note: Specify when operating pressure below 10 PSI

#### Materials

Body and Cover  
(1/2" - 12" 125 & 250 lb.)  
• Ductile Iron  
Body and Cover 14"- 24"  
• Cast Iron A126

#### Float:

Stainless Steel

#### Internal Parts:

Stainless Steel

#### Seal:

Buna-N® Rubber

### When Ordering, Please Specify:

1. Model Number
2. Inlet Size - NPT or Flanged
3. Inlet Pressure Rating

#### Optional:

For anti-shock air valve shut-off order with arrestor check device (suffix "AC").