



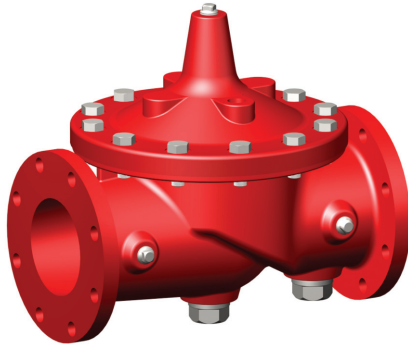
— MODELS — **100G/2100G**

# Deluge Valve

- U.L. Listed / U.L.C. Listed/ABS Approved
- Globe or Angle Pattern
- Proven Reliable Design



Type Approved



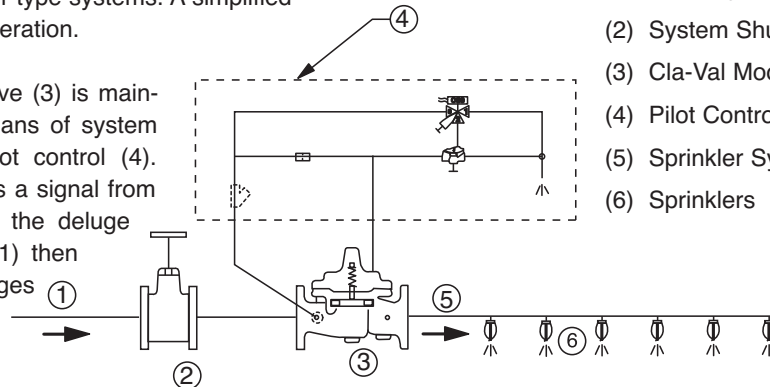
The Cla-Val Model 100G/2100G Deluge Valve is designed for use in controlling water flow to Deluge, Pre-Action, or Foam-Water type fire protection sprinkler systems. This valve is UL Listed in “Special Systems Water Control Valves Class I (VLFT) for both vertical and horizontal installation applications.

The Model 100G/2100G is a hydraulically-operated, diaphragm-actuated, globe or angle pattern Deluge Valve. It consists of three major components: the body, the cover, and the diaphragm assembly. The only moving part is the diaphragm assembly. Packless construction and simplicity of design assures long service life and dependable low maintenance for this valve. All ferrous parts are fusion epoxy coated internally and externally for added corrosion resistance, along with a delrin sleeve stem and teflon coated removable seat.

## Typical Application

The Model 100G/2100G is installed to control the water flow to the sprinklers in Deluge, Pre-Action, or Foam-Water type systems. A simplified system is used to illustrate typical operation.

The Model 100G/2100G Deluge Valve (3) is maintained in the closed position by means of system water pressure controlled by a pilot control (4). When the pilot control valve receives a signal from the fire detection system, it allows the deluge valve to open. Firefighting water (1) then enters system piping (5) and discharges from sprinklers (6).



- (1) From System Water Supply
- (2) System Shut-off Valve (Visual Stem)
- (3) Cla-Val Model 100G or 2100G
- (4) Pilot Control System
- (5) Sprinkler System Piping
- (6) Sprinklers

## Specifications

**Sizes** Globe: 3" – 12" • Angle: 3" – 12"

**End Details** Ductile Iron 150 ANSI B16.42 flanged  
Cast Steel 150 ANSI B16.5 flanged

**Pressure Rating** 150 class, 250 psi maximum (Ductile Iron)  
150 class, 285 psi maximum (All other materials)  
300 class, 300 psi maximum (All materials)  
Water, to 180°F MAX.

**Temperature Range** **Main Valve Body & Cover:**

- Materials**
- Ductile Iron ASTM A-536\* **UL, ULC**
  - Cast Steel ASTM A216-WCB\* **UL, ULC**
  - Nickel Aluminum Bronze ASTM B148 **UL, ULC**
  - Naval Bronze ASTM B61 **UL, ULC**
  - 316 Stainless Steel - ASTM A743 Grades CF3M and CFM8
  - Super Austenitic Stainless Steel - ASTM A351 Grade CK3MCuN (SMO 254)
  - Super Duplex Stainless Steel - ASTM A890 Grade 5A (CE3MN)

**Main Valve Internal Trim:**

Bronze ASTM B61 • Monel QQ-N-281 Class B

**Diaphragm and Disc:**

Buna-N® synthetic rubber

\*Internally & Externally Epoxy Coated

## Specifications Seawater Service Option

**Sizes** Globe: 3" - 12" flanged  
Angle: 3" - 12" flanged

Consult factory for materials and flange ratings.

## When Ordering, Please Specify

1. Model No. 100G or 2100G
2. Size
3. Body and Cover Material
4. Globe or Angle Pattern
5. Pressure Class
6. Internal Trim Material



