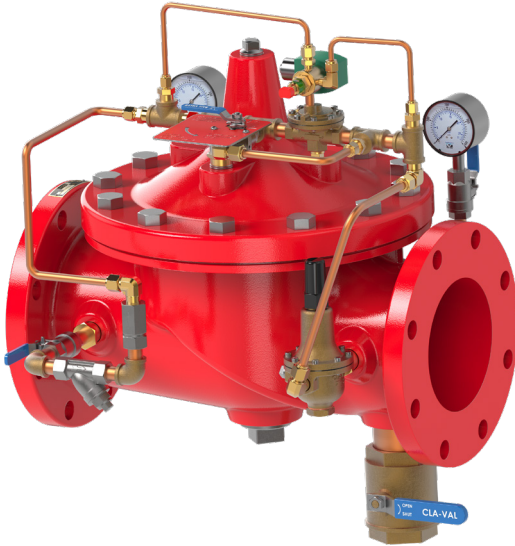




Model **100G-UPR/UPD**

Electrically Actuated Hydraulic On/Off Deluge Valve with Pressure Regulation

NOTE: 100G-UPD uses CDHS-2B pilot in place of CRD for differential control applications.



Description

The Cla-Val Model 100G-UPR is an electrically actuated hydraulic on/off regulating deluge valve designed for use in multiple applications.

The 100G-UPR can be actuated locally by relieving cover pressure through our EDVR (Emergency Deluge Valve Release) or remotely based on customer design.

Once actuated, downstream pressure will regulated to an adjustable set point.

100G-UPD: Once actuated, CDHS-2B pilot will use differential pressure to regulate downstream flow.

Main Valve Features

- Dual Guided Stem Internal for Consistent Linear Seating
- Tapered Metal Seat for Drip Tight Shut-off
- Replaceable 316 Stainless Steel Seat
- Single Internal Guided Assembly
- Proven Repeat Functionality in Harsh Conditions
- In-Line Maintenance

Optional UL Features

- X101 Valve Position Indicator
- X141 Pressure Gauges
- Pressure Switch Assembly
- X105 Limit Switch

Listings and Approvals

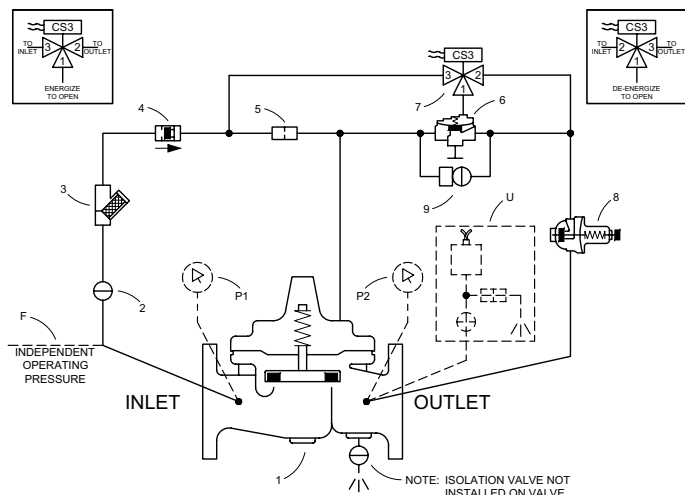


Actuation Method

- EDVR Manual Release
- Solenoid Actuation

Typical Applications

- Hydraulically Operated Systems
- System Pressure Regulation
- Foam Applications
- Electrically Actuated Systems
- Automatic Deluge Systems
- Flow Control Applications

**Electrically Actuated Hydraulic On/Off Deluge Valve with Pressure Regulation****Schematic Diagram**

Item	Description
1	UL Listed Valve
2	Isolation Valve
3	"Y" Strainer
4	Check Valve
5	Restriction Fitting
6	Auxiliary Hytrol (Rev. Flow)
7	Solenoid Control
8	Pressure Reducing Control
9	Emergency Deluge Valve Release

Optional Features

Item	Description
F	Independent Operating Pressure
P	Pressure Gauge Assembly
U	Pressure Switch Assembly

Cla-Val Model 100G-UPR is an electrically actuated hydraulic on/off regulating deluge valve designed for use in multiple applications.

Closed Position: Supply pressure is applied through our Main Valve(1) Inlet Port or Independent Supply Line (F). The supply pressure will pass through our inlet isolation ball valve (2), strainer (3), check valve (4) and restriction orifice (5) before being applied to our Main Valve (1) Cover. Additionally, the supply pressure will pass through our solenoid (7) before applying supply pressure to our auxiliary hytrol cover (6).

Open Position: Main Valve (1) Cover pressure is released through our EDVR (Item 9) which consists of a quarter turn ball valve or via remote actuation per customer design. Once actuated, downstream pressure will regulated to an adjustable set point.

Note: For seawater applications use 100GS/2100GS main valve

Main Valve Specifications**UL APPROVED SIZES**

Globe: 3" - 12" flanged

Globe: 3" - 8" grooved

Angle: 3" - 12" flanged

PRESSURE RATINGS

150 class, 250 psi maximum (Ductile Iron)

150 class, 285 psi maximum (All other materials)

300 class, 300 psi maximum (All materials)

TEMPERATURE RANGE

Water: to 180° F. Max

FLUIDS

Air, water, light oils

Materials**Main valve body & cover:**

Standard Epoxy Coated Ductile Iron
ASTM A-536*

Main valve trim:

Stainless Steel

Pilot control system:

Cast Bronze

Rubber Parts:

Buna-N® Synthetic Rubber

Optional UL Listed Materials for Seawater and Severe Service Applications:

- **Nickel Aluminum Bronze (NAB)**
ASTM B148 Alloy C95800
- **Monel - QQ-N-288 Comp B**
ASTM A494 Grade M30H
- **Cast Steel**
ASTM A216 Grade WCB
- **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)

Functional Data

Valve Size		Inches	3	4	6	8	10	12
		mm	80	100	150	200	250	300
C _v Factor	Globe Pattern	Gal./Min. (gpm)	115	200	440	770	1245	1725
		Litres/Sec. (l/s)	27.6	48	105.6	184.8	299	414
	Angle Pattern	Gal./Min. (gpm)	139	240	541	990	1575	2500*
		Litres/Sec. (l/s)	33.4	58	130	238	378	600

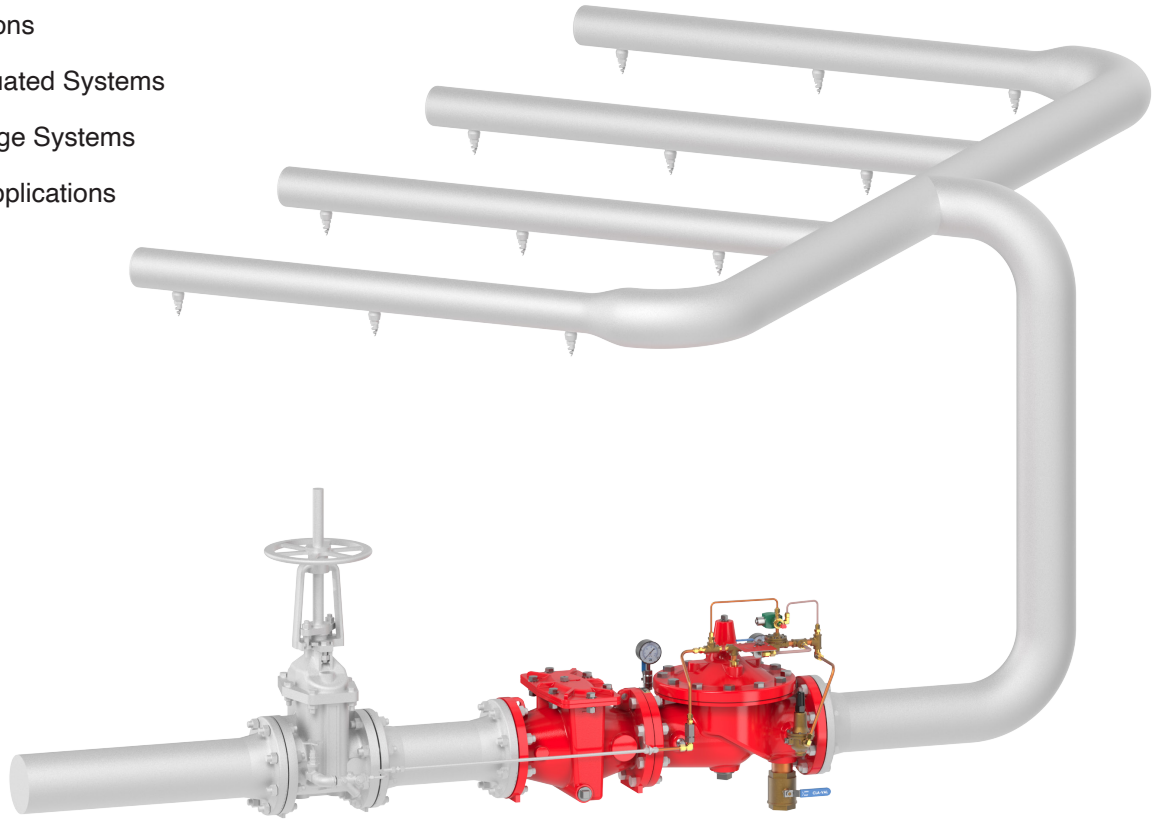


Model **100G-UPR/UPD**

Electrically Actuated Hydraulic On/Off Deluge Valve with Pressure Regulation

Typical Applications

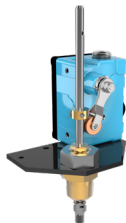
- Hydraulically Operated Systems
- System Pressure Regulation
- Foam Applications
- Electrically Actuated Systems
- Automatic Deluge Systems
- Flow Control Applications



Optional Features



Position Indicator



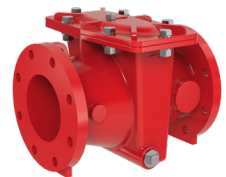
Limit Switch



Pressure Switch



Pressure Gauge



Strainer
(Not UL Listed)



Model Number Codes

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