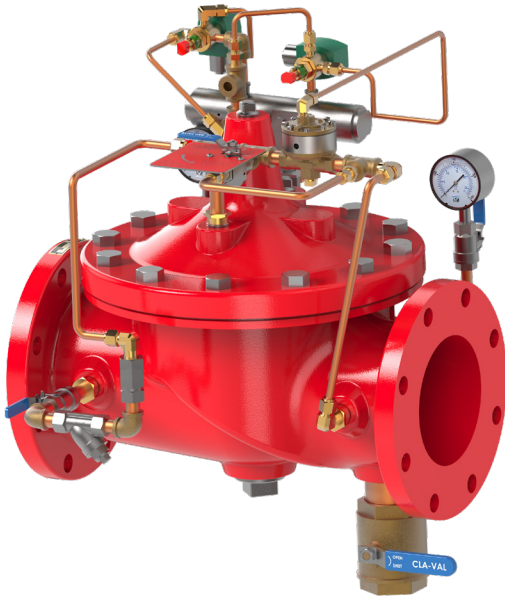




Model **100G-UU**

Electrically Actuated Pneumatic On/Off Deluge Valve with Fail Last Position Pilot



Description

The Cla-Val Model 100G-UU is an electrically actuated pneumatic on/off deluge valve with fail last position pilot designed for use in multiple applications.

The 100G-UU can be actuated locally by relieving cover pressure through our EDVR (Emergency Deluge Valve Release) or remotely via solenoid.

***Reference IOM manual for Fail Last Position Pilot details.

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

- Manual/Local EDVR Release
- Solenoid Actuation

Typical Applications

- Hydraulically Operated Systems
- Fail Last Position Applications
- Electrically Actuated Systems
- Foam Applications
- Automatic Deluge Systems



Electrically Actuated Pneumatic On/Off Deluge Valve with Fail Last Position Pilot



Item	Description
1	UL Listed Valve
2	Isolation Valve
3	Strainer
4	Check Valve
5	Restriction Assembly
6	Auxiliary Powertrol
7	Latching Deluge Pilot, Fail Last Position
8	Solenoid Control
9	Emergency Deluge Valve Release

Optional Features

Item	Description
F	Independent Operating Pressure
H	Drain to Atmosphere
P	Pressure Gauge Assembly
U	Pressure Switch Assembly

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 B 148 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

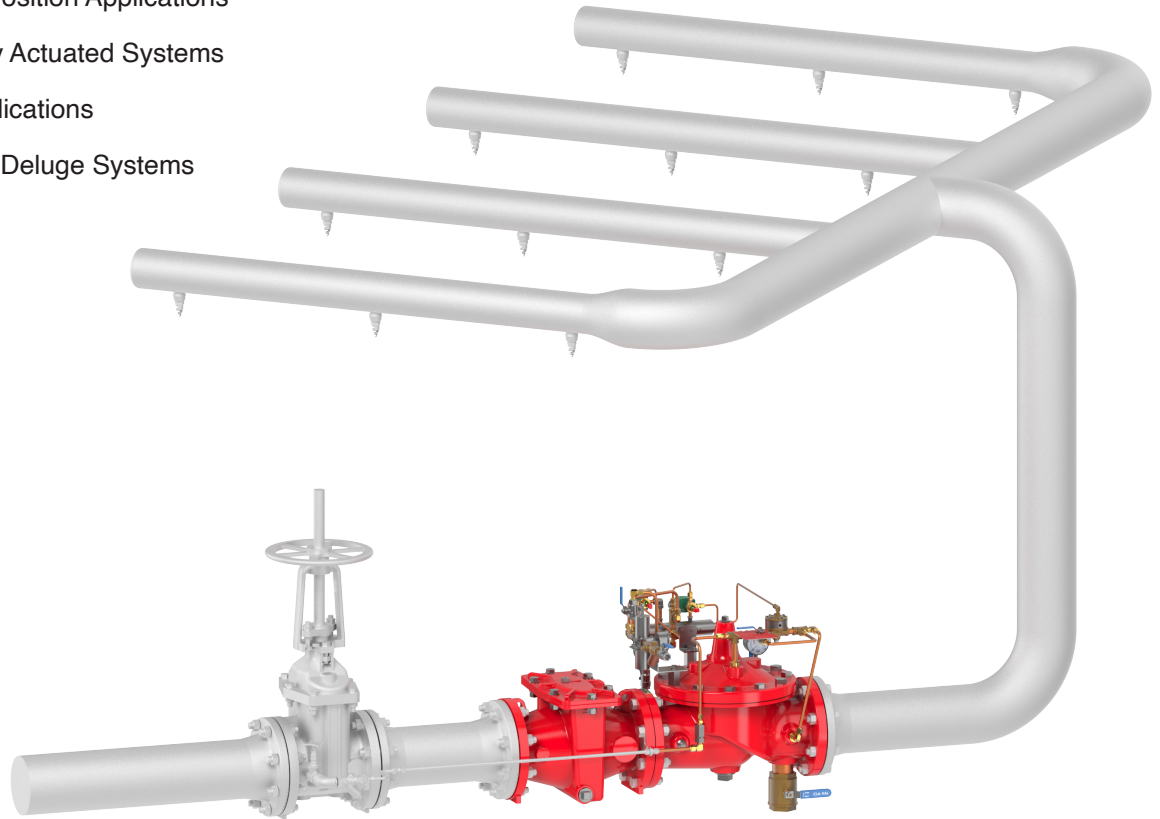


Model **100G-UU**

Electrically Actuated Pneumatic On/Off Deluge Valve with Fail Last Position Pilot

Typical Applications

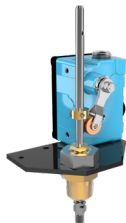
- Hydraulically Operated Systems
- Fail Last Position Applications
- Electrically Actuated Systems
- Foam Applications
- Automatic Deluge Systems



Optional Features



Position Indicator



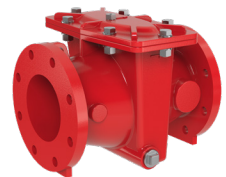
Limit Switch



Pressure Switch



Pressure Gauge

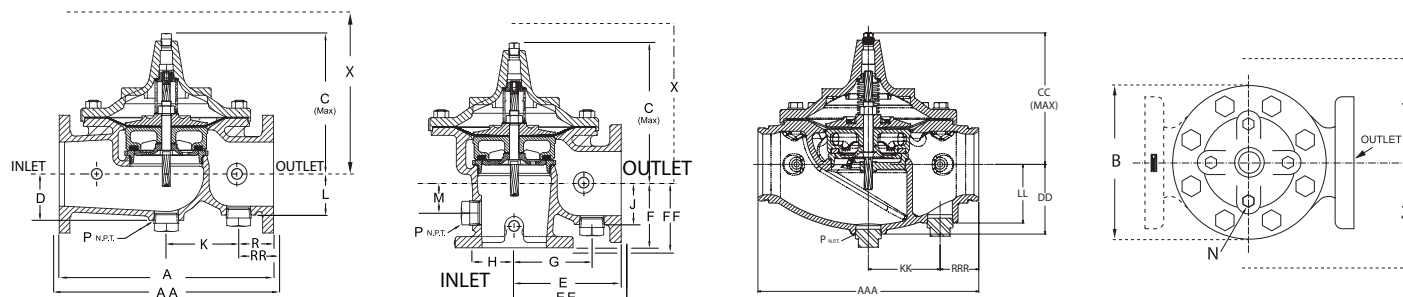


Strainer
(Not UL Listed)

Model **100G-UU**

Electrically Actuated Pneumatic On/Off Deluge Valve with Fail Last Position Pilot

Dimensions



Unit	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
Valve Size	3	80	4	100	6	150	8	200	10	250	12	300
A 150 ANSI	12.00	305	15.00	381	20.00	508	25.38	645	29.75	756	34.00	864
AA 300 ANSI	13.25	337	15.62	397	21.00	533	26.38	670	31.12	791	35.50	902
AAA Grooved	12.50	318	15.00	381	20.00	508	25.38	645	—	—	—	—
B Dia.	9.12	232	11.50	292	15.75	400	20.00	508	23.62	600	28.00	711
C Max.	8.19	208	10.62	270	13.38	340	16.00	406	17.12	435	21.00	533
CC Max.	7.50	191	9.94	252	12.13	308	15.00	381	—	—	—	—
D	2.56	65	3.19	81	4.31	110	5.16	131	8.50	216	9.39	239
DD	3.62	92	4.50	114	6.31	160	7.81	198	—	—	—	—
E 150 ANSI	7.00	178	8.50	216	10.00	254	12.69	322	14.88	378	17.00	432
EE 300 ANSI	—	—	8.81	224	10.50	267	13.19	350	—	—	17.75	451
F 150 ANSI	4.00	102	4.97	126	6.00	152	8.00	203	8.62	219	13.75	349
FF 300 ANSI	—	—	5.28	134	6.50	165	8.50	216	—	—	14.50	368
L	2.56	65	2.81	71	3.81	97	4.81	122	8.50	216	9.39	239
LL	3.25	83	4.00	102	5.31	135	7.00	178	—	—	—	—
P NPT	1-1/4 - 11-1/2		2 - 11-1/2		2 - 11-1/2		2 - 11-1/2		2 - 11-1/2		2 - 11-1/2	
R 150 ANSI	2.50	64	3.47	88	3.25	83	4.19	106	7.12	181	6.50	165
RR 300 ANSI	3.12	79	3.78	96	3.75	95	4.69	119	7.81	198	7.25	184
RRR Grooved	2.75	70	2.94	75	3.50	89	5.69	145	—	—	—	—
X Pilot System	15.00	381	17.00	432	29.00	737	31.00	787	33.00	838	35.00	889
Y Pilot System	11.00	279	12.00	305	20.00	508	22.00	559	24.00	610	26.00	660
Z Pilot System	11.00	279	12.00	305	20.00	508	22.00	559	24.00	610	26.00	660

Model Number Codes

				UU								
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Size	Main Valve	Service	Trim	Body	Trim	Pilots	Tubing & Fittings	Elastomer	Flange	Face
3"	100 Globe	G Firewater		D Ductile Iron	S Stainless Steel	B Bronze w/SST	B Copper with Brass Fittings	B Buna	ANSI 150#	RF
4"	2100 Angle	GS Seawater		C Cast Steel	T 316 SS (F)	BM Bronze with Monel Internals	T 316 SS (F)	E EPDM	ANSI 300#	FF
6"		F Foam**(F)**		T 316 SS	M Bronze/Monel		M Monel	V Viton	ISO PN10	X Other
8"				N N.A.B.	U Super Duplex	T 316 SS (F)	U 2507		ISO PN16	
10"				U Super Duplex	X Other	M Monel	X Other		ISO PN25	
12"				X Other		U Super Duplex			Grooved 300#	
						X Other				

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Restriction Orifice	Strainer	Check Valve	Hytrol	Latching Pilot	Voltage	Solenoid Preference	Main Valve Function	Optional Features
R0 None	S3 X43	0 None	0 None	0 None	12 VDC	0 None	EO Energize to Open	F Indep. Operating Pressure
R58 X58C	S4 X44	CC CDC	H1A 100-01-3H	LL CMDLL	24 VDC		DO Deenergize to Open	H Drain to Atmosphere
	S6 X46A	C8 81-01	H2 100-02	LL2 CMDLL-2	120 VAC			P Pressure Gauge Assembly
	S7 X47A	CS SW200	H2A 102F/X103					U Pressure Switch Assembly
								PT Pressure Transmitter
								LS Limit Switch
								PI Position Indicator
								TL Test Loop
								ADC Automatic Drip Check
								LPA Low Pressure Actuation
								CLF Controlled Line Fill