



Model **100G-UDRL/UDDL**

Pneumatic On/Off Deluge Valve with Manual Reset and Pressure Regulation

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



Description

The Cla-Val Model 100G-UDRL is a pneumatically actuated on/off regulating deluge valve with latching pilot designed for use in multiple applications.

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

Once actuated the downstream pressure will be regulated to an adjustable set point and pilot system will need to be reset locally.

100G-UDDL: 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

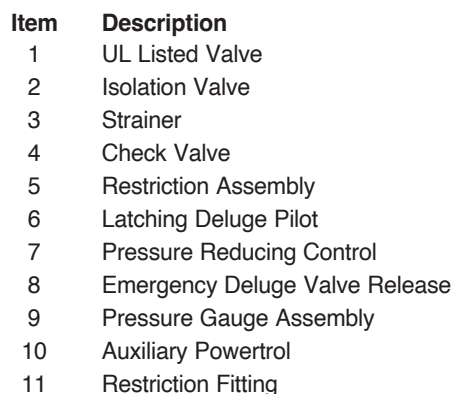
- EDVR Manual Release
- Remote Pneumatic Actuation

Typical Applications

- Pneumatically Operated Systems
- System Pressure Regulation
- Local Reset Applications
- Foam Applications
- Automatic Deluge Systems
- Flow Control Applications



Schematic Diagram



Item	Description
F	Independent Operating Pressure
U	Pressure Switch Assembly

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

- **Super Duplex Stainless Steel** *ASTM A890 Grade 5A (CE3MN)*

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

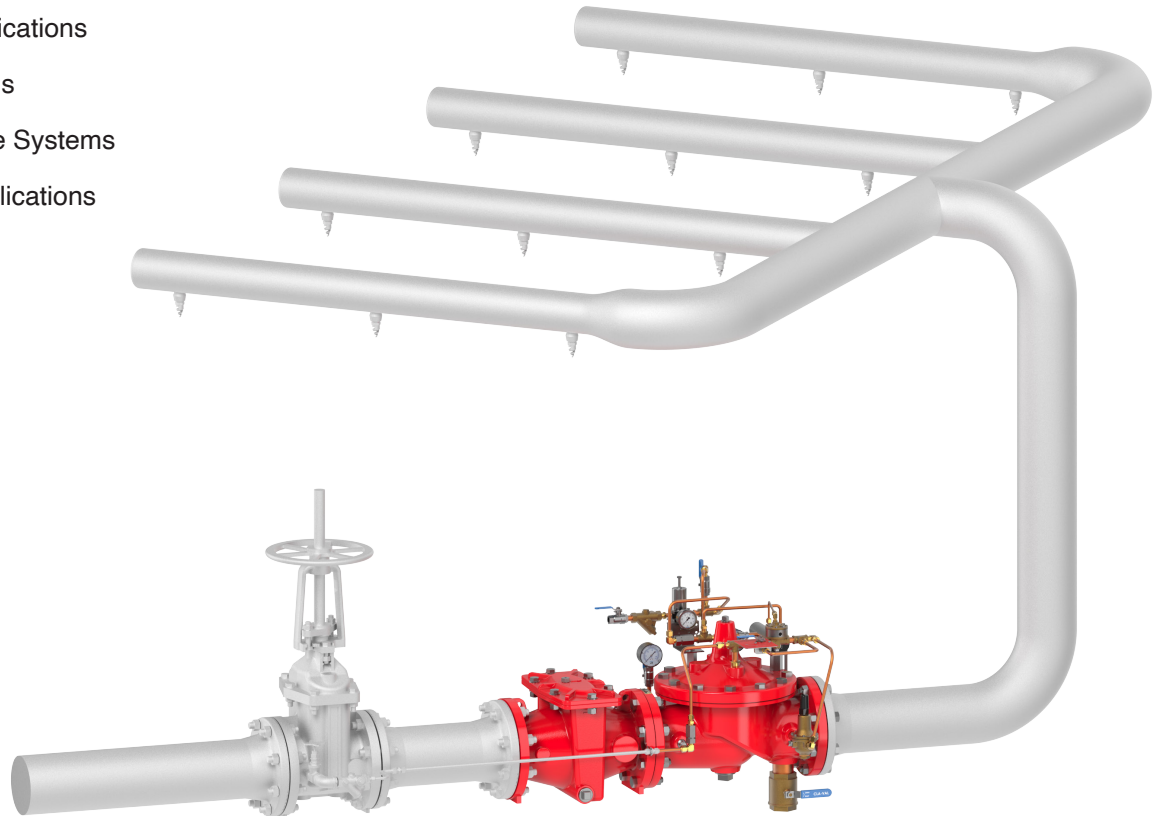


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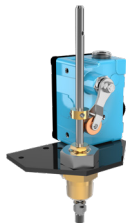
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Optional Features



Position Indicator



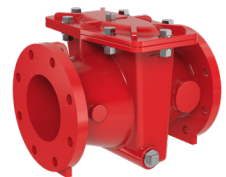
Limit Switch



Pressure Switch



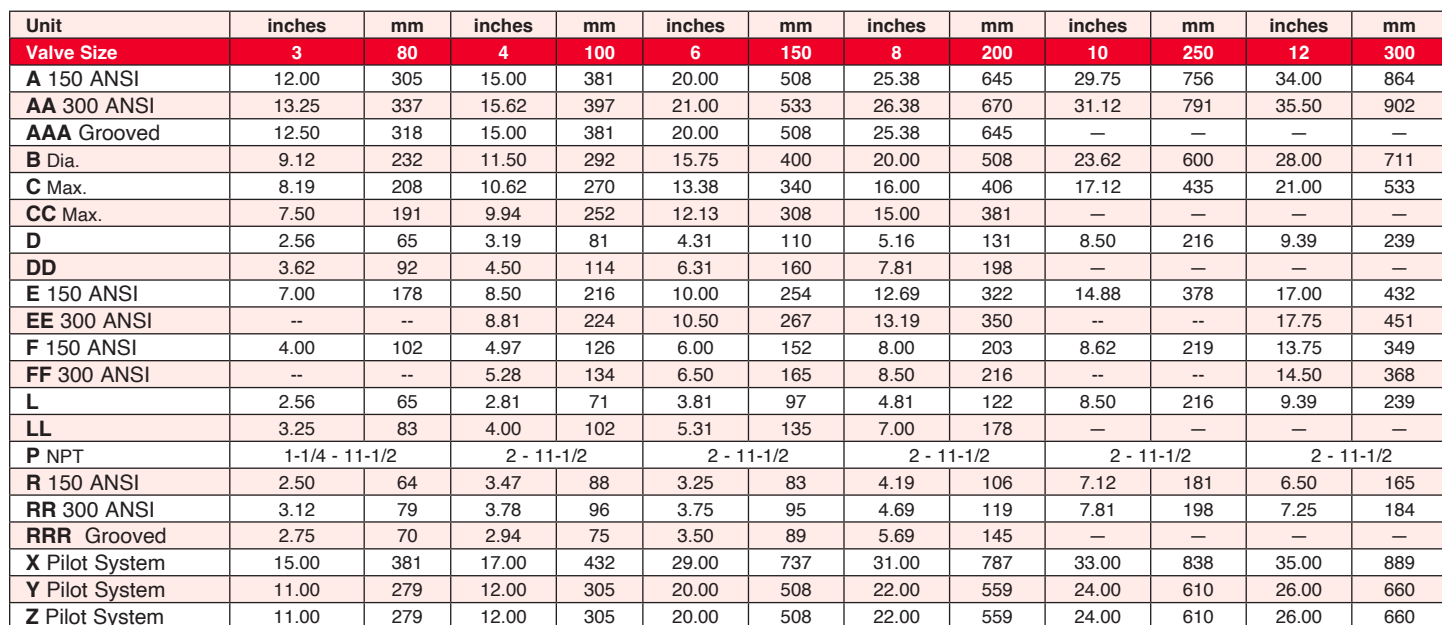
Pressure Gauge



Strainer
(Not UL Listed)



Dimensions



Model Number Codes

Size	Main Valve		Service		Trim	Body		Trim		Pilots		Tubing & Fittings		Elastomer		Flange		Face	
3"	100	Globe	G	Firewater	UDRL	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	UDDL	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	T	316 SS (F)	M	Monel	V	Viton	ISO PN10		X	Other
8"						N	N.A.B.	U	Super Duplex	M	Monel	U	2507			ISO PN16			
10"						U	Super Duplex	X	Other	U	Super Duplex	X	Other			ISO PN25			
12"						X	Other			X	Other					V	Grooved 300#		

Restriction Orifice	
R0	None
R58	X58C

Strainer	
S3	X43
S4	X44
S6	X46A
S7	X47A

Check Valve	
0	None
CC	CDC
C8	81-01
CS	SW200

Hytrol	
0	None
H2	100-02
H2A	102F/X103

Latching Pilot	
0	None
LC	CMDL
LC2	CMDL-2

Optional Features	
F	Indep. Operating Pressure
H	Drain to Atmosphere
P	Pressure Gauge Assembly
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