# **CLA-VAL** Deluge Valves







Cla-Val Automatic Control Valves



# **Choosing a Deluge Valve**

	ACTUATION	HYDRAULIC	PNEUMATIC
STANDARD	MANUAL	-UA (Page 3) -UB (Page 4)	-UD (Page 6)
	SOLENOID	-UP (Page 9)	-UR (Page 10)
LATCHING	MANUAL	-UBL (Page 4) -UC (Page 5)	-UDL (Page 6)
	SOLENOID	-UPL (Page 9)	-URL (Page 10)
REGULATING	MANUAL	-UBR (Page 4)	-UDR (Page 6)
	SOLENOID	-UPR (Page 9)	-URR (Page 10)
LATCHING REGULATOR	MANUAL	-UBRL (Page 4)	-UDRL (Page 6)
	SOLENOID	-UPRL (Page 9)	-URRL (Page 10)
FAIL LAST POSITION	STANDARD	-UT (Page 11)	-UU (Page 11)
	REGULATING	-UTR (Page 11)	-UUR (Page 11)
FAIL SAFE	SINGLE	-UO-FS1(Page 7)	-UQ-FS1 (Page 8)
	DOUBLE	-UO-FS2 (Page 7)	-UQ-FS2 (Page 8)



### Model 100G-UA



Hydraulically actuated on/off deluge valve designed for use in multiple applications.

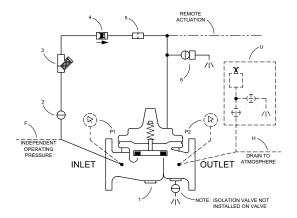
# Schematic Diagram Item Description

2

- 1
  - UL Listed Valve
  - Isolation Valve Strainer
- 3 4 Check Valve
  - **Restriction Assembly**
- 5
- 6 Emergency Deluge Valve Release

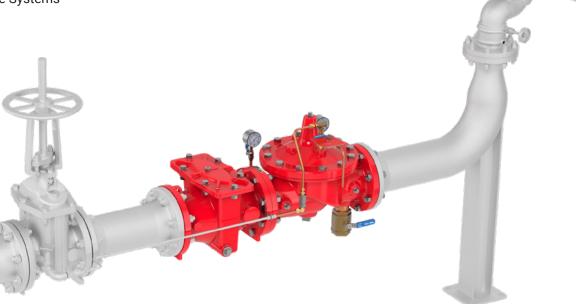
#### **Optional F** eatures Item Description

- F Independent Operating Pressure
- Н Drain to Atmosphere
- Ρ Pressure Gauge Assembly
- U Pressure Switch Assembly



### **Typical Applications**

- Hydraulically Operated Systems
- Manual Actuation Systems
- Foam Applications
- Automatic Deluge Systems





### Model 100G-UB



Hydraulically actuated on/off deluge valve designed for use in multiple applications.

### Model 100G-UBR

### **Schematic Diagram**

**Schematic Diagram** 

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**Optional F** 

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Description

**UL Listed Valve** 

Isolation Valve

Check Valve

Auxiliary Hytrol

**Restriction Assembly** 

Drain to Atmosphere

Pressure Gauge Assembly

Pressure Switch Assembly

**Emergency Deluge Valve Release** 

Independent Operating Pressure

Strainer

-eatures Description

- Description Item
  - UL Listed Valve
  - Isolation Valve
- 3 Strainer 4
  - Check Valve
  - Restriction Assembly
  - Auxiliary Hytrol (Rev. Flow)
  - Pressure Reducing Control
  - Emergency Deluge Valve Release
  - Pressure Gauge Assembly

#### **Optional F** eatures Description Item

- Independent Operating Pressure
- Pressure Switch Assembly

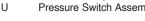
### **Schematic Diagram**

- Description
- UL Listed Valve Isolation Valve
- Strainer
- Check Valve
- Restriction Assembly
- Latching Deluge Pilot
- Emergency Deluge Valve Release Auxiliary Hytrol

#### **Optional F** eatures

#### Description Item

- Independent Operating Pressure
- Н Drain to Atmosphere
- Ρ Pressure Gauge Assembly
  - Pressure Switch Assembly



### Model 100G-UBRL

Hydraulically actuated on/off

latching deluge valve designed

for use in multiple applications.



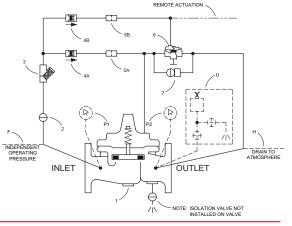
Hydraulically actuated on/off regulating deluge valve with latching pilot designed for use in multiple applications.

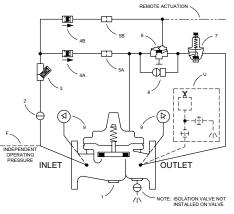
### **Schematic Diagram** ltem

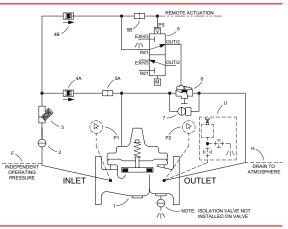
- Description 1
- **UL Listed Valve** 2 Isolation Valve
- 3 Strainer
- 4
  - Check Valve **Restriction Assembly**
  - Latching Deluge Pilot
  - Pressure Reducing Control
  - Emergency Deluge Valve Release
  - Pressure Gauge Assembly
- 9 10 Auxiliary Hytrol (Rev. Flow)
- **Optional F** eatures

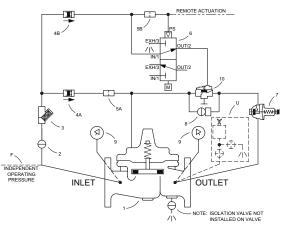
### ltem

- Description F
  - Independent Operating Pressure Pressure Switch Assembly













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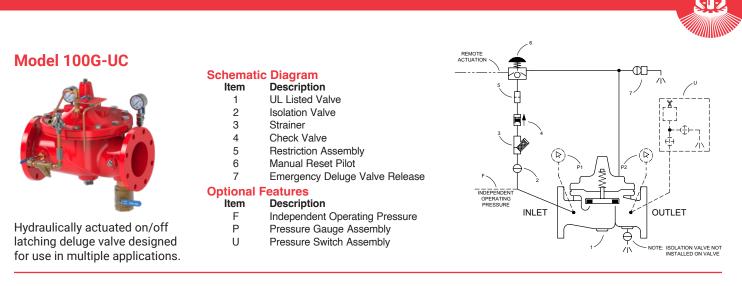
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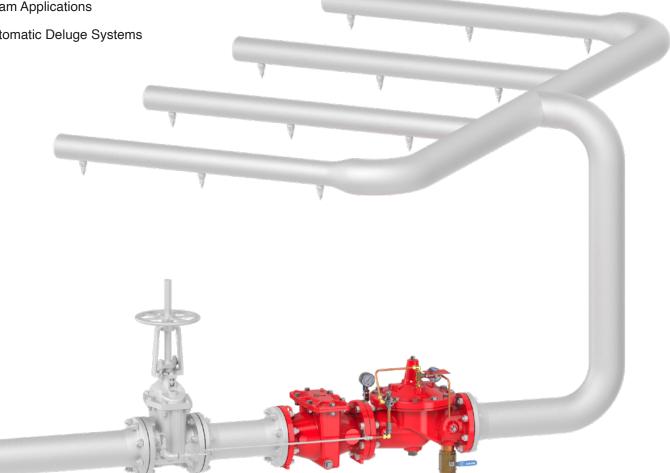
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### **Typical Applications**

- · Hydraulically Operated Systems
- Local Reset Applications
- Foam Applications
- Automatic Deluge Systems





### Model 100G-UD



Pneumatically actuated on/off deluge valve designed for use in multiple applications.

Pneumatically actuated on/off

regulating deluge valve designed

for use in multiple applications.

Pneumatically actuated on/off

latching deluge valve designed

for use in multiple applications.

Model 100G-UDRL

Model 100G-UDL

### Model 100G-UDR

#### Schematic Diagram Item Description 1

- **UL Listed Valve**
- 2 Isolation Valve 3
  - Strainer
- 4 Check Valve 5
  - Restriction Assembly
  - Auxiliary Powertrol
- 7 Emergency Deluge Valve Release
- 8 **Restriction Fitting**

#### **Optional F** eatures Description Item

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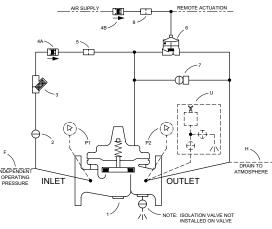
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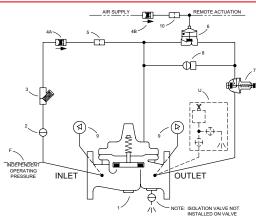
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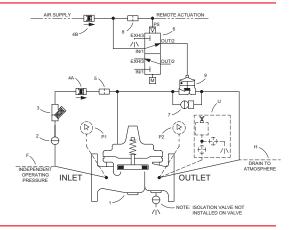
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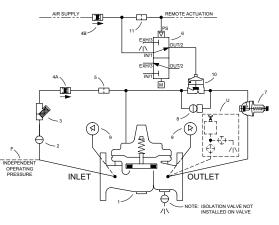
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- Independent Operating Pressure
- Drain to Atmosphere
- Н Ρ Pressure Gauge Assembly
  - Pressure Switch Assembly









#### Schematic Diagram Description Item

- UL Listed Valve
- Isolation Valve
- Strainer 3
- Check Valve 4
  - **Restriction Assembly**
  - Auxiliary Powertrol
  - Pressure Reducing Control
  - Emergency Deluge Valve Release
  - Pressure Gauge Assembly
  - Restriction Fitting

#### eatures **Optional F** Item

- Description Independent Operating Pressure F U
  - Pressure Switch Assembly

### Schematic Diagram Item

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- Description UL Listed Valve

- Restriction Assembly
- Latching Deluge Pilot
- Emergency Deluge Valve Release
- Restriction Fitting

#### 9 **Optional F** eatures

#### Description Item

- Independent Operating Pressure
- Drain to Atmosphere
- Pressure Gauge Assembly
- Pressure Switch Assembly

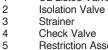
#### Schematic Diagram Description Item

- UL Listed Valve
- Isolation Valve
- Strainer
- Check Valve
- **Restriction Assembly**
- Latching Deluge Pilot
- Pressure Reducing Control
- Emergency Deluge Valve Release Pressure Gauge Assembly
- 9 10 Auxiliary Powertrol
- Restriction Fitting 11

#### **Optional I** eatures

- Description Item F
  - Independent Operating Pressure
- U Pressure Switch Assembly
- regulating deluge valve with latching pilot designed for use in multiple applications.

Pneumatically actuated on/off



- 6 7

### 8 Auxiliary Powertrol

### Model 100G-UO



Electrically actuated hydraulic on/off deluge valve designed for use in multiple applications.

### **FAILSAFE OPTIONS**

### Model 100G-UO-FS1



Single Fail Safe electrically actuated on/off deluge valve designed for use in multiple applications.

### Model 100G-UO-FS2

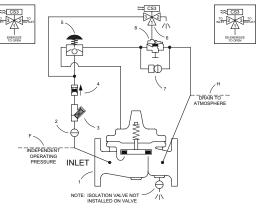


Double Fail Safe electrically actuated on/off deluge valve designed for use in multiple applications.

## Schematic Diagram Item Description

- UL Listed Valve
- 1 Isolation Valve 2
- 3 Strainer & Orifice Assembly
- 4 Check Valve
- Manual Reset Pilot 5 Solenoid Control
- 6
- 7 **Emergency Deluge Valve Release**
- 8 Auxiliary Hytrol
- **Optional F** eatures Description Item

  - F Independent Operating Pressure н Drain to Atmosphere



### Schematic Diagram Item Description

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- UL Listed Valve
- 1 Isolation Valve 2
  - Strainer
  - Check Valve
  - Manual Reset Pilot
  - Solenoid Control
  - Emergency Deluge Valve Release Swing Check

  - Pressure Switch
- 10 CK3 Cock
- 11 Auxiliary Hytrol

#### **Optional F** eatures

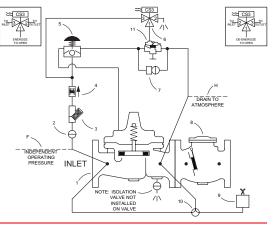
- Description Item F
  - Independent Operating Pressure
- Н Drain to Atmosphere

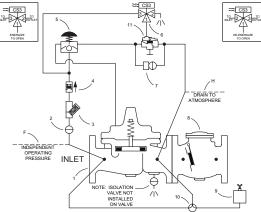
## Schematic Diagram Item Description

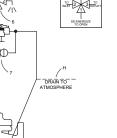
- UL Listed Valve
- Isolation Valve
- 2 Strainer
- 3 4 Check Valve
- Manual Reset Pilot 5
- 6 7 Solenoid Control
  - Emergency Deluge Valve Release
  - Swing Check
  - Pressure Switch
- 10 CK3 Cock
- Auxiliary Hytrol 11

#### **Optional F** eatures Item

- Description F
- Independent Operating Pressure Drain to Atmosphere Н









### Model 100G-UQ



Electrically actuated pneumatic on/off deluge valve designed for use in multiple applications.

### **FAILSAFE OPTIONS**

### Model 100G-UQ-FS1



Single Fail Safe electrically actuated on/off deluge valve designed for use in multiple applications.

### Model 100G-UQ-FS2



Double Fail Safe electrically actuated on/off deluge valve designed for use in multiple applications.

### **Schematic Diagram**

- Description Item 1
  - UL Listed Valve 2
  - Isolation Valve 3
    - Strainer & Orifice Assembly Check Valve
  - 4 5 Manual Reset Pilot
    - Solenoid Control
  - 6 7 **Emergency Deluge Valve Release**
  - 8 Auxiliary Powertrol

#### **Optional** eatures I

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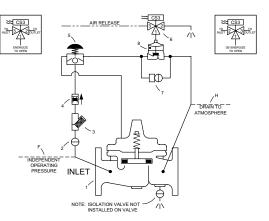
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- Item Description F
  - Independent Operating Pressure Drain to Atmosphere



#### **Schematic Diagram** Item

- Description
- UL Listed Valve 1 2 Isolation Valve
  - Strainer
  - Check Valve
  - Manual Reset Pilot
  - Solenoid Control
  - Emergency Deluge Valve Release
- 8 Swing Check
- 9 Pressure Switch
- 10 CK3 Cock
- Auxiliary Powertrol 11

#### **Optional Features** Item

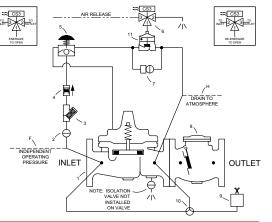
- Description Independent Operating Pressure F
- н Drain to Atmosphere

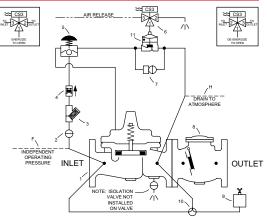
### **Schematic Diagram**

- Description Item UL Listed Valve
  - Isolation Valve
  - 2 3 Strainer
    - Check Valve
    - Manual Reset Pilot
    - Solenoid Control
    - Emergency Deluge Valve Release
    - Swing Check
    - Pressure Switch
- 10 CK3 Cock Auxiliary Powertrol 11

#### **Optional** F eatures

- Item Description
  - Independent Operating Pressure F н
    - Drain to Atmosphere







### Model 100G-UP



Electrically actuated hydraulic on/off deluge valve designed for use in multiple applications.

Electrically actuated hydraulic on/off

regulating deluge valve designed for

use in multiple applications.

Model 100G-UPL

### Model 100G-UPR

**Optional Features** 

**Schematic Diagram** 

Description UL Listed Valve

"Y" Strainer

Check Valve

Description

Drain to Atmosphere

Pressure Gauge Assembly

Pressure Switch Assembly

Isolation Valve

**Restriction Fitting** 

**Emergency Deluge Valve Release** 

Independent Operating Pressure

Auxiliary Hytrol Solenoid Control

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- **Schematic Diagram** Description Item
  - UL Listed Valve
  - Isolation Valve
  - "Y" Strainer
  - Check Valve
  - 5 **Restriction Fitting**
  - 6 Auxiliary Hytrol (Rev. Flow) 7
    - Solenoid Control
    - Pressure Reducing Control
    - Emergency Deluge Valve Release

#### **Optional Features** Description Item

- Independent Operating Pressure
- Pressure Gauge Assembly
- Pressure Switch Assembly

#### Schematic Diagram Item

- Description
- **UL Listed Valve**
- Restriction Fitting
- Latching Deluge Pilot
- Solenoid Control
- Emergency Deluge Valve Release
- Auxiliary Hytrol

#### **Optional F** eatures Item

- Description
- Independent Operating Pressure
- Н Drain to Atmosphere Ρ
  - Pressure Gauge Assembly
  - Pressure Switch Assembly

### Model 100G-UPRL

use in multiple applications.

Electro hydraulic actuated on/off

latching deluge valve designed for



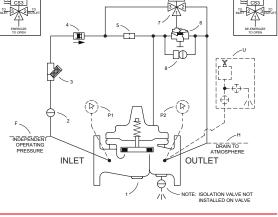
Electrically actuated hydraulic on/off regulating deluge valve with latching pilot designed for use in multiple applications.

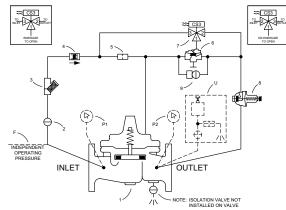
### **Schematic Diagram**

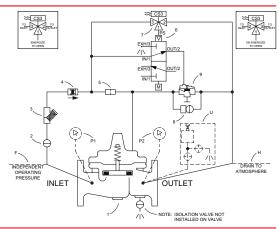
- Item Description UL Listed Valve 1 2 Isolation Valve 3 "Y" Strainer 4 Check Valve 5 **Restriction Fitting** Latching Deluge Pilot 6
  - Solenoid Control 7
  - 8 Pressure Reducing Control
- 9 Emergency Deluge Valve Release
- 10 Auxiliary Hytrol (Rev. Flow)

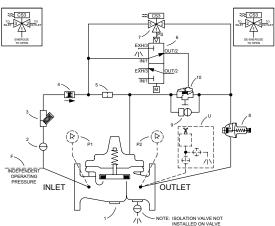
### **Optional Features** Item

- Description Independent Operating Pressure F
- Ρ Pressure Gauge Assembly
- U Pressure Switch Assembly

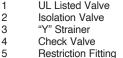








CLA-VAL Deluge Valves 9



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### Model 100G-UR



Electrically actuated pneumatic on/off deluge valve designed for use in multiple applications.

### Model 100G-URR

Electrically actuated pneumatic on/off regulating deluge valve designed for use in multiple applications.

### Model 100G-URL



Electrically actuated pneumatic on/off latching deluge valve designed for use in multiple applications.

### Model 100G-URRL



Electrically actuated pneumatic on/off regulating deluge valve with latching pilot designed for use in multiple applications.

### Schematic Diagram

- Description Item **UL Listed Valve** 1
- 2 Isolation Valve
- 3 "Y" Strainer
  - Check Valve
- 5 Restriction Assembly
  - Auxiliary Powertrol
  - Solenoid Control
- 8 **Emergency Deluge Valve Release**

#### **Optional F** eatures Item

**Schematic Diagram** 

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**Optional F** 

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**Optional F** 

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Schematic Diagram Item Description

- Description Independent Operating Pressure
- Drain to Atmosphere
- Pressure Gauge Assembly

Description

**UL Listed Valve** 

**Restriction Assembly** 

Pressure Reducing Control

Pressure Gauge Assembly

Pressure Switch Assembly

**Emergency Deluge Valve Release** 

Independent Operating Pressure

Auxiliary Powertrol

Solenoid Control

Isolation Valve

"Y" Strainer Check Valve

-eatures

Description

UL Listed Valve

Isolation Valve

**Restriction Assembly** 

Latching Deluge Pilot

**Emergency Deluge Valve Release** 

Independent Operating Pressure

Solenoid Control

Auxiliary Powertrol

Drain to Atmosphere

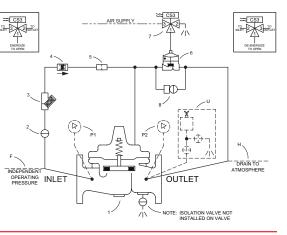
Pressure Gauge Assembly

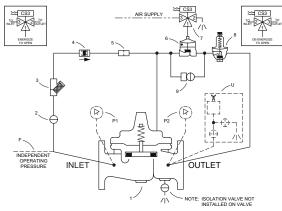
Pressure Switch Assembly

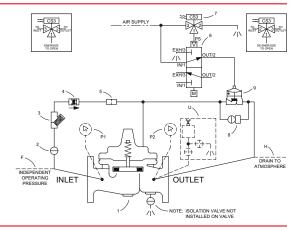
"Y" Strainer

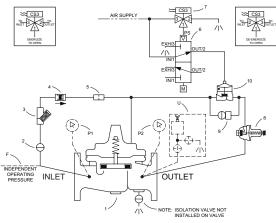
Check Valve

- Pressure Switch Assembly









### **Schematic Diagram**

Description Item UL Listed Valve

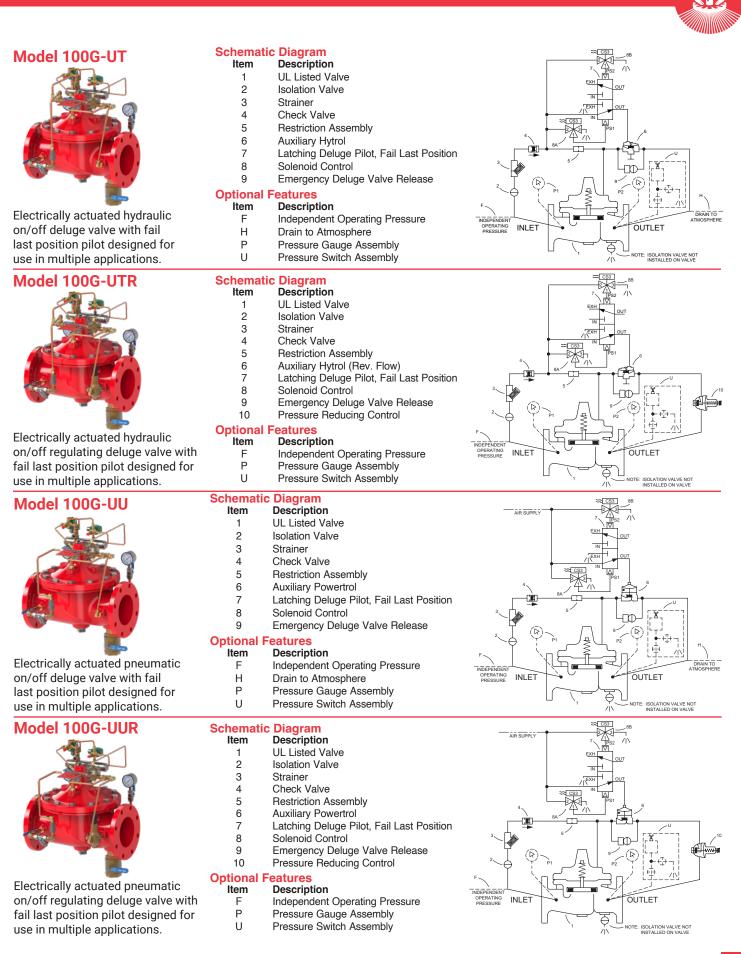
eatures

Description

- Isolation Valve
- "Y" Strainer
- Check Valve
- **Restriction Assembly**
- Latching Deluge Pilot
- Solenoid Control
- Pressure Reducing Control
- Emergency Deluge Valve Release
- 9 10 Auxiliary Powertrol

#### **Optional F** eatures

- Item Description F
  - Independent Operating Pressure Pressure Gauge Assembly
- Ρ U Pressure Switch Assembly



### Support doesn't stop at the sale.

### Cla-Val Field Service is there when you need it, backed by more than 85 years of valve design and manufacturing experience.

Cla-Val Field Service provides expert, on-site maintenance and repair services for valves installed in waterworks, wastewater, fire protection systems, aviation fueling, marine and industrial applications throughout the US, backed by dedicated sales representatives ready to answer any and all questions.

Our experienced Field Service Technicians can help you with:

- · Start-up assistance
- Troubleshooting
- Periodic maintenance
- Valve repairs
- Field retrofits

**CLAEVA** 855-512-6965

We also have Regional Cla-Val Service Centers in the Southern California, Northern California, Arizona, Texas and New York. Outside those areas, factory authorized sales agents throughout North America offer similar field services to ensure that a solution to your operational challenges is never more than a phone call away.



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