FIRE PROTECTION SOLUTIONS
Control Valves
Industry Leading 5 YEAR WARRANTY
Applies to All Valves Across All Lines
OCV Fluid Solutions, a subsidiary of MAT Holding Group, is a global leader in manufacturing and supplying hydraulically operated, diaphragm actuated, automatic control valves. We pride ourselves on delivering the highest quality control valves to a range of industries, including Waterworks, Fire Protection, Fueling and Commercial Plumbing. Exemplifying superior service, our expertly trained staff is available to assist with the seemingly simplest of needs to the more complex custom solutions required for challenging applications.

With a commitment to excellence, OCV guarantees state-of-the-art engineering, competitive pricing, and high quality service and professionalism. Our valves can be found in nearly every country in the world, within a variety of markets and in a multitude of applications.

**OCV Fire Protection Valves:**

- Are hydraulically operated, diaphragm actuated and manufactured in sizes 1/2” to 40” in both globe and angle designs. UL Listed designs available 1/2” to 12”.
- Provide reliable and comprehensive solutions for all applications – from basic fire suppression systems to the most demanding fire protection applications.
- Are designed with flexibility in mind, readily adaptable to perform numerous functions including, but not limited to pneumatic, electric and hydraulic deluge, pressure control, pressure relief, thermal expansion relief, automatic level control, and more. Custom solutions can be designed and engineered for more challenging applications.
- Provide solutions in various fire protection applications such as tunnels, storage, hangars & terminals, high-rise buildings, and more. The valves are specially designed to be utilized in hazardous offshore and onshore locations, and/or corrosive environments such as refineries, offshore platforms, power generation plants, etc., as well as applications in extreme climates.
- Are designed for use in deluge spray systems, pre-action systems, pressure regulating, water level control, hydrants and monitors (water, foam and seawater fire protection valves).
- Are manufactured in a variety of materials such as Nickel-Aluminum-Bronze, Stainless Steel, Super Duplex, Bronze, Cast Steel and Ductile Iron. Valves can be specially finished with a seawater coating and/or a high built, fusion bonded epoxy with a protective topcoat for those highly corrosive environments.
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<td>13</td>
</tr>
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<td>14</td>
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<tr>
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<td>Electrically or Pneumatically Actuated, Manual Reset Deluge Valve</td>
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<td>Pressure Relief Valve (Model 30)</td>
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<td>Pressure Reducing Valve (Model 30)</td>
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Series 100

The Series 100 control valves are automatic, hydraulically actuated, direct diaphragm sealing globe/weir type valves with a proven and reliable design. These valves are designed for use in fire protection applications including deluge, pre-action, pressure relief, monitors, hydrants and are suitable for water, foam and seawater systems. The valves consist of three major components: body, cover and diaphragm assembly.

UL Listed basic untrimmed valve models: 44, 68, 77

Model 44: Up to 230psi working pressure, threaded.
Model 68: Up to 375psi working pressure, flanged & grooved with drain port.
Model 77: Up to 230psi working pressure, flanged & grooved.

Features
• Listed & approved for use in fire protection systems by various global standards
• Quick opening: Non-slap closing operation
• Drip-tight shut off to ANSI FCI 70-2 VI seat leakage class
• Simple and reliable design
• Low lifelong maintenance costs due to straightforward design
• Easy installation and inline maintenance
• High-grade construction materials
• Exceptionally low pressure losses

Optional Features
• Remote or manual reset
• Manual, electric, hydraulic, pneumatic and combined control trims
• Explosion proof, SIL redundant solenoids & trim accessories
• Seawater and foam concentrate service

Listings and Approvals
• The valves are UL Listed under the following categories:
  › “Special Systems Water Control Valves” Deluge (VLFT) - Model 68
  › “Fire Pump Pressure Relief Valves” (QXZQ) - Models 77 & 44
• ABS Design assessment and fire test to EN ISO 6182-5:2006 - Model 68 2” - 6”
• Lloyd’s type approval
• CCCf) - Model 68 DE/EL(CN)
• GOST-R
• Manufacture and conformity assessment of pressure equipment and assemblies Directive (97/23/EC / EN1074)

Consult the UL Listing Guide or contact OCV Fluid Solutions for a complete list of approved applications and valve sizes.

Specifications
Sizes:
Straight Flow .75” - 24” / 20-600 mm
UL Listed sizes 2” - 10” / 50-250 mm
Lloyd’s type approval sizes 1” - 24” / 25-600 mm

End Connections:
Flanged: (Model 68 & 77) 1” - 24”
ISO PN16 & ISO PN25
ASME/ANSI B16.42 & B16.50
Class #150 & Class #300
Additional options available upon request
Grooved: (Model 68 & 77) 2” - 8”
ASME/ANSI AWWA 606
Threaded: (Model 44) .75” - 3”
BSP/NPT

Pressure Rating (Ductile Iron at 100°F / 37.8°C):
250psi for Class #150
375psi for Class #300

Temperature Range:
Water up to 85°C / 185°F max

Materials
Body & Cover:
Ductile Iron ASTM A536
Cast Steel ASTM A216
Cast Steel ASTM A352 LCB
Stainless Steel ASTM CF8M
NAB ASTM B148 C-95800

Coating: High Built, Fusion Bonded Epoxy

Optional:
UV Protection, Polyester & other coatings conforming to ISO-12944 C4, C5 & C5M

Internal Trim: Stainless Steel
Elastomers: Neoprene, NR, NBR, EPDM

Control Trim & Accessories: Brass, Bronze, Stainless Steel, Monel, NAB, Super Duplex

* Additional materials & coatings available upon request
**BASIC VALVES**

### Principle of Operation

### Dimensions & Weights

<table>
<thead>
<tr>
<th>Valve Size</th>
<th>50 (2&quot;)</th>
<th>65 (2.5&quot;)</th>
<th>80 (3&quot;)</th>
<th>100 (4&quot;)</th>
<th>150 (6&quot;)</th>
<th>200 (8&quot;)</th>
<th>250 (10&quot;)</th>
<th>300 (12&quot;)</th>
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<tr>
<td></td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
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<td>mm</td>
<td>inch</td>
</tr>
<tr>
<td>L</td>
<td>243</td>
<td>9(\frac{1}{4})</td>
<td>233</td>
<td>9(\frac{3}{8})</td>
<td>310</td>
<td>12(\frac{1}{8})</td>
<td>356</td>
<td>14</td>
</tr>
<tr>
<td>H</td>
<td>169</td>
<td>6(\frac{1}{4})</td>
<td>185</td>
<td>7(\frac{3}{8})</td>
<td>237</td>
<td>9(\frac{3}{8})</td>
<td>263</td>
<td>10(\frac{1}{4})</td>
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<tr>
<td>R</td>
<td>85</td>
<td>3(\frac{1}{3})</td>
<td>92.5</td>
<td>3(\frac{3}{8})</td>
<td>105</td>
<td>4(\frac{1}{2})</td>
<td>120</td>
<td>4(\frac{1}{4})</td>
</tr>
<tr>
<td>W *</td>
<td>175</td>
<td>6(\frac{1}{4})</td>
<td>185</td>
<td>7(\frac{3}{8})</td>
<td>200</td>
<td>7(\frac{1}{8})</td>
<td>260</td>
<td>10(\frac{1}{8})</td>
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<tr>
<td>Weight kg/lbs</td>
<td>10/22</td>
<td>14.5/32</td>
<td>30/66.1</td>
<td>38/83.8</td>
<td>76/155.3</td>
<td>123/271</td>
<td>190/419</td>
<td>253/566</td>
</tr>
</tbody>
</table>

* Valve Width  
** Contact OCV Fluid Solutions for information on additional valve sizes and models

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Series 300

The Series 300 control valves are automatic, hydraulically actuated, diaphragm operated, rigid seal globe pattern control valves. These valves are designed for use in fire protection applications, including deluge, pre-action, pressure control, monitors, hydrants and are suitable for water, foam and seawater systems. The valves consist of three major components: body, cover, and internal trim assembly.

UL Listed basic untrimmed valve models: 30, 30U, 30CU

Model 30: Up to 375psi working pressure, globe pattern, flanged, grooved & threaded.
Model 30U: Up to 375psi working pressure, globe pattern, flanged, grooved & threaded, with drain port.
Model 30CU: Up to 375psi working pressure, globe pattern, double-chamber, flanged, grooved & threaded, with drain port.

Specifications
Sizes:
- Straight Flow 1.5” - 40” / 40-1000 mm
- UL Listed sizes 2” - 12” / 50-300 mm
- Lloyd’s type approved sizes 2” - 24” / 50-600 mm
End Connections:
- Flanged: 1.5” - 40”
- PN16 & PN25
- ASME/ANSI B16.42 & B16.50
- Class #150 & Class #300
- Additional options available upon request
- Grooved: 2” - 8”
- ASME/ANSI AWWA 606
- Threaded: 1.5” - 2”
- BSP/NPT
Pressure Rating (Ductile Iron at 100°F / 37.8°C):
- 250psi for Class #150
- 375psi for Class #300
Temperature Range: Water up to 85°C / 185°F max

Materials
Body & Cover:
- Ductile Iron ASTM A536
- Cast Steel ASTM A216
- Cast Steel ASTM A352 LCB
- Stainless Steel ASTM CF8M
- NAB ASTM B148 C-95800
Coating: High Built, Fusion Bonded Epoxy
Optional: UV Protection, Polyester & other coatings conforming to ISO-12944 C4, C5 & C5M
Internal Trim: Stainless Steel & Bronze
Elastomers: Buna-N, Viton, EPDM
Control Trim & Accessories: Brass, Stainless Steel, Monel, NAB, Super Duplex

* Additional materials & coatings available upon request
**BASIC VALVES**

## Principle of Operation

## Dimensions & Weights

<table>
<thead>
<tr>
<th>Valve Size</th>
<th>40 (1.5&quot;)</th>
<th>50 (2&quot;)</th>
<th>65 (2.5&quot;)</th>
<th>80 (3&quot;)</th>
<th>100 (4&quot;)</th>
<th>150 (6&quot;)</th>
<th>200 (8&quot;)</th>
<th>250 (10&quot;)</th>
<th>300 (12&quot;)</th>
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<td>mm</td>
</tr>
<tr>
<td>FL</td>
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<td>9/16</td>
<td>292</td>
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<td>310</td>
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<td>350</td>
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<td>7/8</td>
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<td>7/8</td>
<td>230</td>
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<td>82.5</td>
<td>3/4</td>
<td>92.5</td>
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<td>12 / 26</td>
<td>12 / 26</td>
<td>13 / 29</td>
<td>22 / 49</td>
<td>37 / 82</td>
<td>80 / 176</td>
<td>157 / 346</td>
<td>245 / 540</td>
<td>405 / 893</td>
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### Dimensions

<table>
<thead>
<tr>
<th>Valve</th>
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<th>30 &amp; 30U Threaded</th>
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<td>VH</td>
<td>173</td>
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</tr>
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<td>VR</td>
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<td>VW</td>
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</tr>
<tr>
<td>Weight kg/lbs</td>
<td>6.5 / 14.4</td>
<td>7.8 / 17.2</td>
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</tbody>
</table>

**Contact OCV Fluid Solutions for information on additional valve sizes and models**
Series 65

The series 65 control valves are automatic, hydraulically actuated, diaphragm operated, rigid seal globe and angle pattern valves. These valves are designed for use in fire protection applications, including deluge, pressure control, water, foam and seawater fire protection systems. The valves consist of three major components: the body, the bonnet and the internal diaphragm assembly.

**UL Listed basic untrimmed valve model: 65FC**

### Features
- Listed & approved for use in fire protection systems by various global standards
- Quick opening; Non-slam closing operation
- Drip-tight shut off to ANSI FCI 70-2 VI seat leakage class
- Simple and reliable construction
- Easy installation and maintenance
- High-grade construction materials
- Reliable pressure control
- Low pressure losses at high flow rates

### Optional Features
- Local or remote reset
- Electric, pneumatic and electro-pneumatic control trims
- Explosion proof solenoids and trim accessories
- Seawater and foam concentrate services

### Specifications

**Sizes:**
- Globe: 1.25” - 24” / 32-600 mm
- Angle: 1.25” - 16” / 32-400 mm

**End Connections:**
- Flanged:
  - ISO PN16 & PN25
  - ASME/ANSI B16.42 & B16.50
  - Class #150 & Class #300
- Grooved:
  - ASME/ANSI AWWA 606
- Threaded:
  - BSP/NPT

**Pressure Rating (Ductile Iron at 100°F / 37.8°C):**
- 250psi for Class #150 & Class #300

**Temperature Range:**
- Water up to 110°C / 230°F max

### Materials

**Body & Cover:**
- Ductile Iron ASTM A536
- Cast Steel ASTM A216
- Stainless Steel ASTM CF8M
- NAB ASTM B148 C-95800

**Coating:**
- High Built, Fusion Bonded Epoxy
- Optional: Seawater Coating

**Main Valve Trim:**
- Stainless Steel & Bronze

**Elastomers:**
- EPDM, BUNA-N, Viton

**Control Trim & Accessories:**
- Bronze/Brass, Stainless Steel, Monel, NAB

* Additional materials & coatings available upon request

Consult the UL Listing Guide, FM Approval Guide, or contact OCV Fluid Solutions for a complete list of approved applications and valve sizes.
**BASIC VALVES**

**Principle of Operation**

![Diagram of Diaphragm Valve](diagram.png)

**Dimensions**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>End Connection</th>
<th>1.25” - 1.5”</th>
<th>2”</th>
<th>2.5”</th>
<th>3”</th>
<th>4”</th>
<th>6”</th>
<th>8”</th>
<th>10”</th>
<th>12”</th>
<th>14”</th>
<th>16”</th>
<th>24”</th>
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<td>THREADED</td>
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<td>9 7/8</td>
<td>10 1/2</td>
<td>13</td>
<td>--</td>
<td>--</td>
<td>--</td>
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<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td>GROOVED</td>
<td>8 3/4</td>
<td>9 7/8</td>
<td>10 1/2</td>
<td>13</td>
<td>5 1/4</td>
<td>20</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>B</td>
<td>THREADED</td>
<td>1 7/16</td>
<td>1 11/16</td>
<td>1 7/8</td>
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<td>--</td>
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</tr>
<tr>
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<td>1”</td>
<td>1 3/16</td>
<td>1 7/16</td>
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<td>2 1/4</td>
<td>3 5/16</td>
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<tr>
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*Grooved End not Available in 1 1/4”*
DE\HM
Hydraulically Actuated Deluge Valve

Hydraulically controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the hydraulic pressure drops in a pressurized pilot line, limited to 7m above the valve (for higher pilot lines, see DE\HRV model sheet). An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure

Applicable For:
- Deluge
- Single-interlock pre-action
- Water, seawater, and foam

Also available with manual reset DE\HM-MR.

DE\HRV
Hydraulically Actuated, Anti-Columnning Deluge Valve

Hydraulically actuated, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the hydraulic pressure drops in a pressurized pilot line, tripping a hydraulic relay. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Optional pressure reducing function

Applicable For:
- Deluge
- Single-interlock pre-action
- Water, seawater, and foam

Also available with manual reset DE\HRV-MR.

DE\PORV
Pneumatically Actuated Deluge Valve

Pneumatically actuated, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the pneumatic pressure drops in a gas pressurized pilot line, tripping a hydraulic relay. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Optional pressure reducing function

Applicable For:
- Deluge
- Dry pipe
- Non or Single-interlock pre-action
- Water, seawater, and foam

Also available with manual reset DE\PORV-MR.
DE\EL
Electrically Actuated, Remote Reset Deluge Valve
2/2 Solenoid

Electrically controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when a 2w solenoid valve is energized. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Optional pressure reducing function

Applicable For:
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam

Also available with manual reset DE\EL-MR.

DE\RC
Electrically Actuated, Remote Reset Deluge Valve
3/2 Solenoid

Electrically controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when a 3w solenoid valve is energized. It closes drip tight when the solenoid valve is de-energized. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Optional pressure reducing function

Applicable For:
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam

Also available with manual reset DE\RC-MR.

DE\RCL
Electrically Actuated, Manual Reset Deluge Valve

Electrically controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when a 3w solenoid valve is energized. The valve must be manually reset following automatic actuation using the RCL relay's knob. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Optional pressure reducing function

Applicable For:
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam


**DE\RCE**

**Electrically Actuated, Manual Reset & Electric Remote Reset Deluge Valve**

Electrically controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the “Open” solenoid valve is energized. The valve may be remotely closed by energizing the “Close” solenoid valve or by manually pressing the RCE relay’s reset knob. An emergency manual release valve is fitted as standard.

**Features:**
- UL Listed
- Simple structure

**Applicable For:**
- Deluge
- Single or double-interlock pre-action
- Water, seawater and foam

**DE\EL(CN)**

**Electrically Actuated, Manual Reset Deluge Valve (Chinese Standard)**

Electrically controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when a 2w solenoid valve is energized. The valve must be manually reset following automatic actuation. An emergency manual release valve is fitted as standard.

**Features:**
- Chinese standard certified
- Simple structure
- Manual reset
- Built-in downstream drain valve

**Applicable For:**
- Deluge
- Single or Double-interlock pre-action
- Water, seawater, and foam

**DE\EL\HRV**

**Electrically or Hydraulically Actuated, Anti-Columning Deluge Valve**

Electrically or hydraulically, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the hydraulic pressure drops in a water pressurized pilot line, releasing a hydraulic relay, or by an electric command. An emergency manual release valve is fitted as standard.

**Features:**
- UL Listed
- Simple structure
- Optional pressure reducing function

**Applicable For:**
- Deluge
- Single-interlock pre-action
- Water, seawater, and foam

Also available with manual reset **DE\EL\HRV-MR**.
DE\EL\PORV

Electrically or Pneumatically Actuated Deluge Valve

Electrically or pneumatically, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the pneumatic pressure drops in a gas pressurized pilot line, releasing a hydraulic relay, or by an electric command. An emergency manual release valve is fitted as standard.

Features:
• UL Listed
• Simple structure
• Optional pressure reducing function

Applicable For:
• Deluge
• Dry pipe
• Single-interlock pre-action
• Water, seawater, and foam

Also available with manual reset DE\EL\PORV-MR.
DE\EL\PORV-DN  
Double-Interlock Pre-Action, Electro-Pneumatic Release System

Electrically and pneumatically, pilot controlled, double-interlock pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the pressure drops in a gas pressurized supervisory pilot line, sensed by the relay valve, and the solenoid valve is energized. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Optional pressure reducing function

Applicable For:
- Double-interlock pre-action
- Water, seawater, and foam

Also available with manual reset DE\EL\PORV-DN-MR.

DE\EL\PORV\PR-DN  
Double-Interlock Pre-Action, Pressure Reducing, Electro-Pneumatic Release System

Electrically and pneumatically, pilot controlled, double-interlock pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the pressure drops in a gas pressurized supervisory pilot line, sensed by the relay valve, and the solenoid valve is energized. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure

Applicable For:
- Double-interlock pre-action
- Water, seawater, and foam

Also available with manual reset DE\EL\PORV\PR-DN-MR.
DEH\RV\PR

Hydraulically Actuated, Anti-Columning, Pressure Reducing Deluge Valve

Hydraulically actuated, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the hydraulic pressure drops in a pressurized pilot line, tripping a hydraulic relay. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Easy installation and maintenance

Applicable For:
- Deluge
- Single-interlock
- Water, seawater, and foam

DEH\RV\PR-MR

Hydraulically Actuated Anti-Columning, Pressure Reducing, Manual Reset Deluge Valve

Hydraulically actuated, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the hydraulic pressure drops in a pressurized pilot line, tripping a hydraulic relay. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. The valve must be manually reset following automatic actuation. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure

Applicable For:
- Deluge
- Single-interlock
- Water, seawater, and foam

DE\POR\VPR

Pneumatically Actuated, Pressure Reducing Deluge Valve

Pneumatically actuated, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the pneumatic pressure drops in a gas pressurized pilot line, tripping a hydraulic relay. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Easy installation and maintenance

Applicable For:
- Deluge
- Dry pipe
- Non or Single-interlock
- Water, seawater, and foam
**DE\POR\PR-MR**

Pneumatically Actuated, Pressure Reducing, Manual Reset Deluge Valve

Pneumatically actuated, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the pneumatic pressure drops in a gas pressurized pilot line, tripping a hydraulic relay. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. The valve must be manually reset following automatic actuation. An emergency manual release valve is fitted as standard.

**Features:**
- UL Listed
- Simple structure

**Applicable For:**
- Deluge
- Dry pipe
- Non or Single-interlock pre-action
- Water, seawater and foam

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**DE\EL\PR**

Electrically Actuated, Pressure Reducing, Remote Reset Deluge Valve 2/2 Solenoid

Electrically controlled deluge/pre-action pressure reducing valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when a 2w solenoid valve is energized. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. It closes drip tight when the solenoid valve is de-energized. An emergency manual release valve is fitted as standard.

**Features:**
- UL Listed
- Simple structure
- Easy installation and maintenance

**Applicable For:**
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam

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**DE\RC\PR**

Electrically Actuated, Pressure Reducing, Remote Reset Deluge Valve 3/2 Solenoid

Electrically controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when a 3w solenoid valve is energized. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. It closes drip tight when the solenoid valve is de-energized. An emergency manual release valve is fitted as standard.

**Features:**
- UL Listed
- Simple structure
- Easy installation and maintenance

**Applicable For:**
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam
DELUGE PRESSURE REDUCING

DE\EL\HRV\PR

Electrically or Hydraulically Actuated, Anti-Columning, Pressure Reducing Deluge Valve

Electrically or hydraulically, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the hydraulic pressure drops in a water pressurized pilot line, releasing a hydraulic relay, or by an electric command. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Easy installation and maintenance

Applicable For:
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam

DE\EL\HRV\PR-MR

Electrically or Hydraulically Actuated, Anti-Columning, Pressure Reducing, Manual Reset Deluge Valve

Electrically or hydraulically, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the hydraulic pressure drops in a water pressurized pilot line, releasing a hydraulic relay, or by an electric command. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. The valve must be manually reset following automatic actuation. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure

Applicable For:
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam

DE\EL\PORV\PR

Electrically or Pneumatically Actuated, Pressure Reducing Deluge Valve

Electrically or pneumatically, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the pneumatic pressure drops in a gas pressurized pilot line, releasing a hydraulic relay, or by an electric command. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Easy installation and maintenance

Applicable For:
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam
**DELUGE PRESSURE REDUCING**

**DE\EL\POR\VPR-MR**

**Electrically or Pneumatically Actuated, Pressure Reducing, Manual Reset Deluge Valve**

Electrically or pneumatically, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the pneumatic pressure drops in a gas pressurized pilot line, releasing a hydraulic relay, or by an electric command. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. The valve must be manually reset following automatic actuation. An emergency manual release valve is fitted as standard.

**Features:**
- UL Listed
- Simple structure

**Applicable For:**
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam

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**DE\RCL\VPR**

**Electrically Actuated, Pressure Reducing, Manual Reset Deluge Valve 3/2 Solenoid**

Electrically controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when a 3w solenoid valve is energized. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. The valve must be manually reset following automatic actuation using the RCL relay’s knob. An emergency manual release valve is fitted as standard.

**Features:**
- UL Listed
- Simple structure
- Easy installation and maintenance

**Applicable For:**
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam
129 FC
Pressure Reducing Valve

An automatic, pilot controlled, pressure reducing valve, actuated by the pipeline pressure. The valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. In case of excessive downstream pressure, the valve closes drip tight.

Features:
- Maintains constant discharge pressure despite variations in demand or inlet pressure
- Class VI drip tight closure
- UL / ULC Listed for pressure control service in sizes 1.5” - 8” globe or angle configuration
- Horizontal or vertical mounting in all sizes
- Grooved end configuration available on 1.5” - 6”
- Threaded end configuration available on 1.5”, 2”, 2.5” & 3”
- Factory tested

Applicable For: Water, seawater, and foam

PS\UL
Pressure Relief Valve (Models 44, 68, 77)

An automatic, pilot controlled, pressure relief valve, actuated by the pipeline pressure. The valve modulates to maintain a steady, predetermined pressure in the network. Should the upstream pressure exceed the required set point, the valve opens, releasing the excessive pressure. When the pressure falls below the set value, the valve closes drip tight.

Features:
- Simple field adjustable pressure setting; no special tools or system downtime; for relief pressures up to 175psi
- Superior design featuring low pressure losses at high flow rates
- Low lifelong maintenance costs
- Comprised of 3 main parts
- Soft seat for drip tight closure
- Easily maintained without removal from the line

Applicable For: Water, seawater, and foam

PS\UL
Pressure Relief Valve (Model 30)

An automatic, pilot controlled, pressure relief valve, actuated by the pipeline pressure. The valve modulates to maintain a steady, predetermined pressure in the network. Should the upstream pressure exceed the required set point, the valve opens, releasing the excessive pressure. When the pressure falls below the set value, the valve closes drip tight.

Features:
- Simple field adjustable pressure setting; no special tools or system downtime
- Superior design featuring low pressure losses at high flow rates
- Low lifelong maintenance costs
- Protects the system by accurately limiting maximum pressure
- Stainless Steel seat as standard

Applicable For: Water, seawater, and foam
Pressure Reducing Valve (Model 30)

An automatic, pilot controlled, pressure reducing valve actuated by the pipeline pressure. The valve regulates to a steady, preset downstream pressure regardless of upstream pressure or flow rate fluctuations. In case of excessive downstream pressure, the valve closes drip tight.

Features:
- Simple field adjustable pressure setting; no special tools or system downtime
- Superior design featuring low pressure losses at high flow rates
- Low lifelong maintenance costs
- High flows & working pressures (PN25/375psi)
- Stable regulation from near zero flow to maximum design flow
- Regulates at low flow & high pressure differential without bypass or U/V port design
- Stainless Steel seat as standard

Applicable For: Water, seawater, and foam

Fire Pump Relief Valve

An automatic, pilot controlled, pressure relief valve actuated by the pipeline pressure. The valve modulates to maintain a steady, predetermined pressure in the network. Should the upstream pressure exceed the required set point, the valve opens, releasing the excessive pressure. When the pressure falls below the set value, the valve closes drip tight.

Features:
- Limits maximum pump discharge pressure
- Opens quickly; maintains pressure within close limits
- Adjustable: 60-180psi or 100-300psi
- Simple field adjustable pressure setting; no special tools or system downtime
- Factory tested & preset to requirements
- Sizes 3” (DN80) - 8” (DN200), globe and angle pattern
- Wide range of materials available (108FCA)

Applicable For: Water, seawater, and foam

Pump Suction Control Valve

This valve is used to prevent the fire pump from outdrawing the available supply. It protects the pump suction supply from damage associated with low pressure and assures adequate supply pressure to the fire system components.

Features:
- Maintains minimum pump suction pressure
- Suction pressure is adjustable with single screw
- Adjustable: 5-30psi range
- Sizes 3” (DN80) - 8” (DN200), globe & angle
- Pilot operated main valve
- Maintain without removal from the line
- Adjustable opening speed
- Factory tested & preset to requirements

Applicable For: Water, seawater, and foam
108-2HP (Globe)/108-2HPA (Angle)  
**Fire Pump High Pressure Relief Valve**

This valve automatically relieves excess fire pump discharge pressure to prevent the pressure from exceeding the rating of the fire system components. It is specifically designed for systems where the relief set point must be higher than the pressures allowed for UL listed / FM approved valves.

**Features:**
- Limits maximum pump discharge pressure
- Opens quickly; maintains pressure within close limits
- Adjustable 13.7 bar - 51.0 bar
- Pilot operated main valve
- Pressure setting is adjustable with single screw
- Factory tested and preset to requirements
- Sizes 3” (DN80) - 8” (DN200), globe and angle pattern
- ANSI Flanged Class #300, and 300 inlet x 150 outlet
- Wide range of materials available (108-2HPA)

**Applicable For:**
- Water, seawater, and foam

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1330FC

**Thermal Expansion Relief Valve**

This is a pressure relief valve, installed downstream of a pressure reducing valve and is located in the distribution piping in a fire protection system. If the pressure in the distribution piping rises above the relief valve’s set point, the 1330FC opens and relieves the excess pressure, thus preventing damage.

**Features:**
- UL Listed
- Normally closed, increasing inlet pressure opens valve
- UL listed spring range of 20-175psi
- Local sense line (self contained sense loop)
- Simple adjustment
- All parts replaceable while valve is installed
- Rubber to metal seat for positive shutoff
- Can be installed vertically or horizontally
- Sizes: 0.5”, 0.75”, 1”

**Applicable For:**
- Water, seawater, and foam
ZP\EL
Foam Concentrate, Electrically Actuated Control Valve

This valve is installed downstream of the foam concentrate tank and is closed in its normal, set position by the master’s main line pressure. When the valve’s solenoid is actuated, it allows the valve to be forced open by the upstream pressure of its master valve’s water mains. This allows the foam concentrate valve to open even with zero upstream line pressure, ensuring fail safe supply of foam concentrate through the foam proportioner, downstream of the main master valve.

Features:
- Electrically select either water only or foam operation through the system
- Full stainless steel construction
- Double-chamber zero pressure operated by deluge water mains
- Electric remote actuation and remote reset, manual emergency actuation

Applicable For:
- Control of water & seawater, AFFF concentrate foam systems

ZP\HM
Foam Concentrate, Hydraulic Pilot Actuated Control Valve

This valve is installed downstream of the foam concentrate tank and is closed in its normal, set position by the master’s main line pressure. The valve is forced open through the pilot valve by the upstream pressure of its master valve’s water mains. This allows the foam concentrate valve to open even with zero upstream line pressure, ensuring fail safe supply of foam concentrate through the foam proportioner, downstream of the main master valve.

Features:
- Full stainless steel construction
- Double-chamber, zero pressure, fail safe operation by its master valve’s water mains
- Electric remote actuation and remote reset including local manual emergency actuation

Applicable For:
- Control of water & seawater, AFFF concentrate foam systems
ZPH
Foam Concentrate, Hydraulically Actuated Control Valve

This valve is installed downstream of the foam concentrate holding tank and is closed in its normal, set position. The valve is forced open by its master valve’s downstream pressure rise when it opens. This allows the foam concentrate valve to open even with zero upstream line pressure, ensuring fail safe supply of foam concentrate through the foam proportioner downstream of the main master valve.

Features:
- Full stainless steel construction
- Double-chamber, zero pressure, fail safe operation by its master valve’s water mains
- Electric remote actuation and remote reset including local manual emergency actuation

Applicable For:
- Control of water & seawater, AFFF concentrate foam systems
**MOW**

**Manually Actuated Monitor Valve**

Manually controlled hydraulic monitor valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when an activation selector valve is turned to the open position. It gradually closes drip tight when the selector valve is turned back to the closed position, to prevent water hammer damage.

**Features:**
- Effortless open/close actuation
- Fast response
- Simple and reliable design
- Easy installation and maintenance

**Applicable For:**
- Water, seawater, and foam

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**MO\RC**

**Remote Hydraulic/Pneumatic Actuated Monitor Valve**

Manually controlled monitor valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the activation ball valve is turned to the open position or when a remote activation ball valve is turned to the open position. It gradually closes drip tight when the selector valve is turned back to the closed position, reducing the risk of water hammer damage.

**Features:**
- Fast response, even for long control lines & changing typography
- Simple and reliable design
- Easy installation and maintenance

**Applicable For:**
- Water, seawater, and foam

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**MO\EL**

**Electrically Actuated Monitor Valve**

Electrically or manually controlled hydraulic monitor valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when an activation ball valve is turned to the open position or when a solenoid valve is energized. It gradually closes drip tight when the ball valve is turned back to the closed position or the solenoid valve is de-energized, reducing the risk of water hammer damage.

**Features:**
- Low power electric actuation
- Simple and reliable design
- Easy installation and maintenance

**Applicable For:**
- Water, seawater, and foam
HYDRANT SYSTEMS

HY
Hydrant Valve

Manually controlled hydrant valve, actuated by the pipeline pressure. When the activation ball valve is turned to the open position, it opens gradually to prevent a sudden pressure rise in the hose and closes drip tight when the selector valve is turned back to the closed position, reducing the risk of water hammer damage.

Features:
• Effortless open/close actuation
• Controlled response
• Simple and reliable design
• Easy installation and maintenance

Applicable For:
• Water and seawater

HY\PR1
Pressure Reducing Hydrant Valve

Manually controlled, pressure reducing hydrant valve, actuated by the pipeline pressure. When the activation ball valve is turned to the open position, it opens gradually to prevent a sudden pressure rise in the hose up to a predefined set point and closes drip tight when the selector valve is turned back to the closed position, reducing the risk of water hammer damage.

Features:
• Simple field adjustable pressure setting, requiring no special tools and no system downtime
• Effortless open/close actuation
• Controlled response
• Simple and reliable design
• Easy installation and maintenance

Applicable For:
• Water and seawater
**FL**

**Modulating Float Control Valve**

An automatic, float pilot water level control valve actuated by the pipeline pressure. The valve modulates to maintain a steady, pre-determined level in the reservoir and will keep a drip tight close position in case the level is higher than the float pilot location.

**Features:**
- Accurate level control
- Simple and reliable design
- Easy installation and maintenance

**Applicable For:**
- Water and seawater

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**FLEL**

**Electric Float Control Valve**

An automatic, solenoid controlled valve actuated by the pipeline pressure. The valve will open at low level by an electric command from a float positioned in the tank/reservoir. When the level reaches its high set value, the valve will close drip tight.

**Features:**
- Accurate differential level control
- Low power electric actuation
- Fast response
- Simple and reliable design
- Easy installation and maintenance

**Applicable For:**
- Water and seawater
FLDI
Differential Float Pilot Control Valve

An automatic, pilot controlled, level control valve, actuated by the pipeline pressure. The valve closes when the water rises to a determined maximum level and opens when the water level drops to the preset minimum point. The differential between opening and closing levels is adjustable.

Features:
- Accurate differential level control
- Adjustable differential
- Fast response
- Simple and reliable design
- Easy installation and maintenance

Applicable For:
- Water and seawater

AL
Altitude Pilot Control Valve

An automatic, pilot controlled valve, actuated by the pipeline pressure. The valve is actuated by a highly sensitive altitude pilot, located outside the tank. The pilot opens or closes the valve in response to the static pressure. It allows for differential adjustments between the maximum and minimum level.

Features:
- Accurate differential level control
- Fast response
- Easy access - no float is located in the tank/reservoir
- Simple and reliable design
- Easy installation and maintenance

Applicable For:
- Water and seawater
**DMR**  
**Latching Manual Reset Device**

A spring-loaded, latching manual reset device, applicable for service on deluge and pre-action valve trims. In the “Ready” position, the DMR prevents draining of the deluge valve’s control chamber, keeping the deluge valve closed. Once the deluge valve is actuated, the DMR shifts to its “Latched-Open” position, allowing draining of the control chamber and latching open the deluge valve. Manual resetting is accomplished by holding the DMR’s knob until the deluge valve has closed.

**Features:**
- UL Listed (when installed on OCV Fluid Solutions listed models)
- Available in Brass (Standard) and Stainless Steel 316
- Pressure rating: PN25 / 375psi
- Connections: 0.5” NPT female

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**66-2UL HRV/PORV**  
**Hydraulic/Pneumatic Relay**

Diaphragm actuated, spring-loaded relay valve, applicable for service on deluge and pre-action valve trims. The relay will vent or pressurize the hydraulic valve’s control chamber, in response to hydraulic or pneumatic pressure.

**Features:**
- UL Listed (when installed on OCV Fluid Solutions listed models)
- Available in Brass (Standard) and Stainless Steel 316
- Pressure rating: PN25 / 375psi
- Can be used with any size hydraulic control valve
- Easy to adjust
- Simple design and maximum dependability
- Broad setting range

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**RC 28-200**  
**2-Way Relay**

A 2-Way, hydraulically operated, diaphragm actuated relay valve, applicable for service on deluge and pre-action valve trims. The RC 28-200 is designed to meet the requirements of hydraulic valve control trims, particularly when a fast reaction is required. When the pressure command is removed, the pressure in the RC 28-200 relay drops, causing it to open and allowing the water to drain from the deluge valve’s control chamber.

**Features:**
- UL Listed (when installed on OCV Fluid Solutions listed models)
- Extremely large water passages enable fast response
- Tough and durable construction
RCL 28-2UL
2-Way Relay, Latching Manual Reset Device

A 2-Way, spring-loaded, latching manual reset device, applicable for service on deluge and pre-action valve trims. In its “Ready” position, it prevents draining of the deluge valve’s control chamber, keeping the deluge valve closed. Once the deluge valve is actuated, the RCL 28-2UL shifts to its “Latched Open” position, allowing draining of the control chamber and latching open the deluge valve. Manual resetting is accomplished by rotating the RCL 28-2UL’s knob.

Features:
- UL Listed (when installed on OCV Fluid Solutions listed models)
- Available in Stainless Steel 316
- Pressure rating: PN25 / 375psi
- Extremely large water passages enable fast response
- Tough and durable construction

RCE
Latching Relay

A pressure operated, 3/2-Way, latching manual and remote reset device, applicable for service deluge and pre-action valve trims. In its “Ready” position, the RCE latching relay prevents draining of the deluge valve’s control chamber, keeping the deluge valve closed. Once the deluge valve is actuated, the RCE latching relay shifts to its “Latched-Open” position, allowing draining of the control chamber and latching open the deluge valve. Resetting is accomplished by energizing a “Closing” solenoid valve or by manually pressing the RCE relay’s reset knob.

Features:
- UL Listed (when installed on OCV Fluid Solutions listed models)
- Function: 3/2 NC/NO universal dual pilot with manual and remote reset
- Working Pressure: 14-232psi
- Available in Stainless Steel 316

CXPR
Pressure Reducing 2-Way Pilot Valve

A 2-Way, diaphragm actuated, spring-loaded pressure reducing pilot valve, applicable for service on pressure reducing, deluge and pre-action valve trims. The valve modulates to maintain a steady, pre-set downstream pressure, regardless of upstream pressure or flow rate fluctuations. As downstream pressure falls below the set point, it opens a full passage between its “In” and “Out” ports, relieving the valve’s control chamber to the downstream and allowing the valve to open. As downstream pressure rises above the set point, the CXPR throttles, restricting the flow out of the valve’s control chamber, keeping its position or closing the valve (if necessary).

Features:
- UL Listed (when installed on OCV Fluid Solutions listed models)
- 2-way pilot valve for high accuracy pressure reducing applications
- Wide regulation range: a single spring is used for setting range of 3-19 bar / 45-275psi
- Superb accuracy and repeatability
- Integral stainless steel needle valve - highly accurate and simplifies the control trim
- No internal sealing allows for maximum dependability
- Easy to adjust
CXPS
Pressure Sustaining / Relief 2-Way Pilot Valve

A 2-Way, diaphragm actuated, spring-loaded, pressure sustaining/relief pilot valve, applicable for service on pressure sustaining/relief valve trims. It modulates to maintain a steady, pre-set pressure, upstream of the valve’s location. As upstream pressure rises above the set value, the CXPS opens to allow water flow between its “COM” and “OUT” ports, relieving the water from the valve's control chamber and causing the valve to open. As upstream pressure falls below the set value, the CXPS throttles, restricting the flow out of the valve's control chamber, limiting the valve's opening or causing it to close (if necessary).

Features:
• UL Listed (when installed on OCV Fluid Solutions listed models)
• 2-way pilot valve for high accuracy pressure sustaining/relief applications
• Integral stainless steel needle valve - highly accurate and simplifies the control trim
• Wide regulation range: a single spring is used for setting range of 3-19 bar / 45-275psi
• Easy to adjust

68-500
Pressure Sustaining / Relief 2-Way Pilot Valve

A 2-Way, diaphragm actuated, spring-loaded, pressure sustaining/relief pilot valve, applicable for service on pressure sustaining/relief valve trims. It modulates to maintain a steady, pre-set pressure, upstream of the valve’s location. As upstream pressure rises above the set value, the 68-500 open to allow waterflow between its “COM” and “OUT” ports, relieving the water from the valve's control chamber and causing the valve to open. As upstream pressure falls below the set value, the 68-500 throttles, restricting the flow out of the valve’s control chamber, limiting the valve's opening or causing it to close (if necessary).

Features:
• UL Listed (when installed on OCV Fluid Solutions Listed models)
• 2-way pilot valve for high accuracy pressure sustaining/relief applications
• Integral stainless steel needle valve - highly accurate and simplifies the control trim
• Minimal internal sealing and maximal dependability
• Easy to adjust

68-710
Pressure Sustaining / Relief 2-Way Pilot Valve

A 2-Way, diaphragm actuated, spring-loaded, pressure sustaining/relief pilot valve, applicable for service on pressure sustaining/relief valve trims. It modulates to maintain a steady, pre-set pressure, upstream of the valve’s location. As upstream pressure rises above the set value, the 68-710 opens to allow water flow between its 4 and 3 ports, relieving the water from the valve’s control chamber and causing the valve to open. As upstream pressure falls below the set value, the 68-710 throttles, restricting the flow out of the valve’s control chamber, limiting the valve’s opening or causing it to close (if necessary).

Features:
• UL Listed (when installed on OCV Fluid Solutions listed models)
• Wide regulation range (can be set up to 33 bar/480psi)
• Large water passages allow high flow capacity and fast reaction
• Accurate and easy to adjust
• Simple design and maximal dependability
**PPCS**

**Pneumatic Pressure Control System**

The PPCS is intended for fire protection systems, using a supervisory air or Nitrogen pressure source. It automatically reduces supervisory pneumatic pressure to a predetermined set point. When pressure drops in the pilot line, an orifice assembled on the PPCS ensures air volume flowing out of the open sprinklers is higher than the incoming air volume, allowing the control valve to open. The PPCS’s set point can be easily adjusted on site.

![PPCS Diagram](image)

**T Restrictor**

The T-Restrictor is a tee fitting with a fixed orifice in its inlet port. It ensures that water volume flowing out of the valve’s control chamber is higher than the incoming water volume, allowing the control valve to open when actuated.

![T Restrictor](image)

**141-1 Check Valve**

The 141-1 Check Valve uses a spring-loaded poppet that allows flow in one direction only. The check valve maintains water or pneumatic pressure for a time, even when upstream pressure supply drops. Flow is in the direction of the arrow on the check valve body.

![Check Valve](image)
159
**Y-Type Strainer**

The 159 Y-Type Strainer is installed on a valve’s upstream trim and protects items such as pilots, solenoids and others from solid contaminants in the line fluid. It is the standard strainer for most of OCV Fluid Solutions’ control valves.

123
**Inline Strainer**

The 123 Inline Strainer is installed on a control valve’s upstream port and protects items such as pilots, solenoids and others from solid contaminants in the line fluid. The screen prevents entrance of particles into the trim while flow through the main valve washes the screen clean.

589004
**Freshwater Pressure Gauge**

- Approvals: UL / FM
- Range: 0-300psi / 0-2050 kPa
- Dial size: 4”
- Case: Stainless steel
- Ring: Stainless steel, polished
- Window: Glass, double strength
- Dial: Brass, white coated
- Pointer: Brass
- Movement: Brass with SS pinion, underload & overload stops
- System: Brass socket, tube & tip
- Accuracy: 3-2-3%
- Connection: Lower mount ¼” NPTM
589700
Seawater Pressure Gauge

- Range: 0-300psi / 0-20 bar
- Dial size: 4”
- Case: Stainless steel, glycerin filled
- Wetted parts: 316 stainless steel
- Bezel: Stainless steel, fixed
- Lens: Polycarbonate
- Pointer: Black aluminum
- Accuracy: 2-1-2% of span ASME B40.1 Grade A
- Ambient temp (glycerin filled): 0°C to 70°C / 30°F to 160°F
- Connection: Lower mount ¼” NPTM
- Design meets or exceeds ASME B40.100 pressure gauge standard

SK7000 / 640810
Freshwater Hazardous Location Solenoid

- Function: 3/2-Way N.U.
- Process connection: ¼” NPTF
- Cable entry: ½” NPTF
- Maximal pressure differential: 400psi / 27.5 bar (UL WP = 300psig)
- Maximal ambient temperature: Up to 65°C / 150°F
- Wetted parts: Stainless Steel
- Seal: NBR (BUNA-N)
- Media: Air, Water
- Mounting position: any
- Coil voltage & power: 24VDC, 10W (standard). Others upon request.
- Class H coil
- Electrical enclosure & safety code: NEMA 4, 4X, 7 & 9 (UL Listed for hazardous locations CLASS I, GROUPS C AND D, CLASS II, GROUPS E, F AND G)
- UL Listed for deluge service exclusively for OCV Fluid Solutions control valves

BRK330D / 640829
Seawater Hazardous Location Solenoid

- Function: 3/2-Way N.O. (N.C. upon request)
- Process connection: ¼” NPTF
- Cable entry: ½” NPTF
- Pressure range:
  (5/64" Orifice 0-230psi / 0-16 bar)
  (1/8" Orifice 0-140psi / 0-9.5 bar)
- Temperature range:
  Media: -40°C to 90°C / -40°F to 194°F
  Maximal ambient temperature: 54°C / 130°F
- Wetted parts: Stainless Steel 316
- Seal: E.P.D.M.
- Media: Air, Water
- Mounting position: any (prefer upright)
- Manual override
- Coil voltage & power: 24VDC, 8W (standard). Others upon request.
- Class H coil
- Duty cycle: 100% (ED)
- Electrical enclosure & safety code: IP65 & FM Approved for hazardous locations CLASS 1 DIVISION 1 GROUP A, B, C, D
SOL-Z3
3/2-Way Freshwater Hazardous Location Solenoid

SOL-W3
3/2-Way Freshwater Waterproof Solenoid

- Function: 3/2-Way N.O. or N.C.
- Process connection: ¼” NPTF
- Cable entry: ½” NPTF or M20X1.5mm
- Pressure range: 0-300psi / 0-20 bar
- Temperature range fluid & ambient: 0°C to 70°C / 30°F to 160°F
- Wetted parts: Stainless Steel
- Seal: NBR
- Media: Air, Inert Gases, Water
- Mounting position: any
- Coil voltage & power: 24VDC, 8W (standard). Others upon request.
- Class H coil
- Duty cycle: 100% (ED)
- Electrical enclosure & safety code: IP67 or IP65 & Ex II2GD Exd IIC T4-T6 IP66 with enclosure as per ATEX 94/9/EC directive

SOL-Z2
2/2-Way Freshwater Hazardous Location Solenoid

SOL-W2
2/2-Way Freshwater Waterproof Solenoid

- Function: 2/2-Way N.O. or N.C.
- Process connection: ½” NPTF
- Cable entry: ½” NPTF or M20X1.5mm
- Pressure range: 14.5-300psi / 1-20 bar
- Temperature range fluid & ambient: 0°C to 80°C / 30°F to 176°F
- Wetted parts: Stainless Steel
- Seal: NBR
- Media: Air, Inert Gases, Water
- Coil voltage & power: 24VDC, 8W (standard). Others upon request.
- Class H coil
- Duty cycle: 100% (ED)
- Electrical enclosure & safety code: IP67 or IP65 & Ex II2GD Exd IICT4-T6 IP66 with enclosure as per ATEX 94/9/EC directive
SOL-GP3
3/2-Way General Purpose Freshwater Solenoid

- Function: 3/2-Way N.O. or N.C.
- Process connection: ¼” NPTF
- Pressure range: up to 250psi / 17 bar
- Temperature range:
  - Fluid: 0°C to 80°C / 30°F to 176°F
  - Ambient: 0°C to 50°C / 30°F to 122°F
- Wetted parts:
  - Body: Brass or Stainless Steel AISI 316
  - Solenoid operator: Stainless Steel AISI 300 & 400 series
- Seal: NBR
- Media: Air, Water, Oil
- Coil voltage & power: 24VDC, 10W (standard). Others upon request.
- Electrical enclosure: IP65

SOL-GP2
2/2-Way General Purpose Freshwater Solenoid

- Function: 2/2-Way N.O. or N.C.
- Process connection: ½” NPTF
- Pressure range: up to 300psi / 20 bar
- Temperature range:
  - Fluid: 0°C to 80°C / 30°F to 176°F
  - Ambient: 0°C to 50°C / 30°F to 122°F
- Wetted parts:
  - Body: Brass or Stainless Steel AISI 316
  - Solenoid operator: Stainless Steel AISI 300 & 400 series
- Seal: NBR
- Media: Air, Water
- Coil voltage & power: 24VDC, 10W (standard). Others upon request.
- Electrical enclosure: IP65
**PS-GP**  
**General Purpose Pressure Switch**

The PS-GP Pressure Actuated Switch is designed for the detection of a water flow condition in automatic fire sprinkler systems such as wet pipe, dry pipe, pre-action, or deluge valves. The PS-GP is also suitable to provide a low pressure supervisory signal; adjustable between 4-15 psi (0.27-1.03 bar).

**PS-Z**  
**Hazardous Location Pressure Switch**

This hazardous location pressure switch is ideal for operation in difficult applications. A snap action Belleville spring assembly is used to provide vibration resistance and prolonged switch life. The 316 stainless steel enclosure and hermetically sealed switch provide rugged protection from the environment. Approved for use in hazardous locations worldwide, this pressure switch is installed in applications ranging from offshore oil rigs to rotating equipment, and more.

**PXS**  
**Proximity Switch**

This proximity switch is a hermetically sealed linear position switch certified explosion proof and suitable for arduous industrial applications and environmental exposure.

**WMA**  
**Water Motor Alarm**

The water motor alarm is a hydraulically operated outdoor alarm for use with fire protection systems. It is lightweight yet durable and can be used in conjunction with dry pipe, deluge, and pre-action valves to sound a local alarm. This water powered system eliminates the need for an electrical alarm and will operate even if electrical power is lost.
With over 70 years experience manufacturing control valves, OCV Fluid Solutions is recognized as the brand of choice of professionals in the fire protection industry. OCV offers a complete line of high performance, listed and approved valves - deluge, pressure control, pressure relief, automatic level control, and more. Developed with flexibility, these valves can be readily adapted to perform numerous functions, while custom solutions can be specially designed for those more challenging applications.

OCV valves can be found in nearly every country in the world, within a variety of markets, and in a multitude of applications.