Innovative & Reliable Solutions
Together!

Fire Protection
Control Valves
Growing Forward. Together.

OCV Fluid Solutions combines the engineering expertise of Dorot and OCV Control Valves resulting in a one-of-a-kind partner with a combined 140 plus years of experience in developing sustainable fluid control solutions for Fire Protection. OCV Fluid Solutions portfolio includes the same reliable and excellent products you have become familiar with, in addition to new and innovative technologies. You’ll have access to a variety of special materials and simultaneously receiving the highest quality product on the market, worldwide.

Synergies created worldwide between Dorot and OCV Control Valves enables OCV Fluid Solution to respond efficiently to fluid & water industry provocations and provide tailor-made solutions for various applications, ranging from basic systems to most hazardous applications in Fire Protection.

About Dorot Control Valves - Fire Protection Division:

Since first receiving our UL listing over 15 years ago, Dorot’s Fire Protection Valves division has been providing time-proven, reliable and comprehensive solutions for various applications, ranging from basic systems to the most demanding Fire Protection applications. Additional approvals such as CCCF, ABS, Lloyd’s, DNV, LPCB and more are available with Dorot’s systems.

Dorot's Fire Protection systems are utilized in typical applications including tunnels, storage, hangars & airport terminals, high-rise buildings, and many more. Dorot's Fire Protection systems are also being applied in hazardous offshore and onshore locations, refineries, platforms, FPSO’s, power generation plants and other extreme climates and corrosive environments.

Dorot offers a variety of water, foam and seawater Fire Protection valves INMETRO / ABNT compliant including Deluge, Dry-Pipe and Pre-Action or Foam-Water type fire protection sprinkler systems, Peripheral Valves, Hydrant and Monitor Valves such as: remote and local Hydraulically and Electrically actuated monitor valves, standard and Pressure Reducing Hydrant valve and more.

Dorot’s Fire Protection Valves are made from a variety of materials such as Nickel-Aluminum-Bronze, Stainless Steel, Super Duplex, Bronze / Marine Bronze, Cast Steel and Ductile Iron. Standard material valves such as Ductile Iron (ASTM A-536) and Cast Steel (WCB A-216) are coated with zinc-enriched, high-build fusion-bonded epoxy (FBE) and a UV protective topcoat, conforming to EN12944 C4 & C5, high corrosion protection grades. Dorot also supplies naval quality - very high corrosion protection grade, conforming to EN12944 C5M as well as other coatings (such as NORSOK or ANSI/NACE) and materials for extreme environments upon request.

About OCV Control Valves - Fire Protection Division:

For nearly 70 years, OCV Control Valves has manufactured hydraulically operated, diaphragm actuated globe and angle valves, in sizes 1/2”-12” for fire protection applications such as deluge spray systems, foam-water systems, offshore platforms, transportation tunnels, manufacturing plants, power plants and many more. Developed with flexibility in mind, the OCV control valve can be readily adapted to perform numerous functions, including but not limited to pneumatic, electric and hydraulic deluge, pressure control, pressure relief, thermal expansion relief, automatic level control, electronic valves, and more. For more challenging applications, we can design a custom solution and offer specialized materials such as Nickel-Aluminum-Bronze, Stainless Steel, Super Duplex Stainless Steel, and seawater epoxy coating to protect the valves in even the most corrosive environment. OCV Control Valves has always focused on creating the highest quality product on the market, and maintaining unparalleled customer service, which is why each valve comes with an industry leading five-year warranty. Our quality system is registered to ISO 9001, and many of our valves are UL Listed, FM Approved, certified to 2014/68/EU PED and ABS Type Approved.

Products within the OCV Fluid Solutions portfolio have a variety of registrations and model certifications ranging from:
## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series 300 Basic Hydraulic Valves</td>
<td>4</td>
</tr>
<tr>
<td>Series 100 Basic Hydraulic Valves</td>
<td>6</td>
</tr>
<tr>
<td>Deluge Valve Range</td>
<td>8</td>
</tr>
<tr>
<td>DE\HM  Hydraulically Actuated Deluge Valve</td>
<td>8</td>
</tr>
<tr>
<td>DE\HRV Hydraulically Actuated, Anti-Columnning Deluge Valve</td>
<td>8</td>
</tr>
<tr>
<td>DE\EL  Electrically Actuated Remote Reset Deluge Valve 2/2 solenoid</td>
<td>9</td>
</tr>
<tr>
<td>DE\RC  Electrically Actuated Deluge Valve 3/2 solenoid</td>
<td>10</td>
</tr>
<tr>
<td>DE\RCL Electrically Actuated Manual Reset Deluge Valve</td>
<td>10</td>
</tr>
<tr>
<td>DE\RCE Electrically Actuated Manual Reset &amp; Electric Remote Reset Deluge Valve</td>
<td>11</td>
</tr>
<tr>
<td>DE\EL(CN) Electrically Actuated Deluge Valve (Chinese standard)</td>
<td>11</td>
</tr>
<tr>
<td>DE\ELHRV Electro-Hydraulically Actuated, Anti-Columnning Deluge Valve</td>
<td>12</td>
</tr>
<tr>
<td>DE\PORV Pneumatically Actuated Deluge Valve</td>
<td>12</td>
</tr>
<tr>
<td>DE\ELPORV Electro-Pneumatically Actuated Deluge Valve</td>
<td>13</td>
</tr>
<tr>
<td>DE\ELPORV\DN Double-Interlock Pre-action, Electric-Pneumatic Release System</td>
<td>13</td>
</tr>
<tr>
<td>Pressure Reducing &amp; Pressure Relief Valves</td>
<td>14</td>
</tr>
<tr>
<td>PR\UL Pressure Reducing Valve</td>
<td>14</td>
</tr>
<tr>
<td>PS\UL Pressure Relief Valve</td>
<td>14</td>
</tr>
<tr>
<td>Model 108FC (Globe)/108FCA (Angle) METRIC Fire Pump Relief Valve</td>
<td>15</td>
</tr>
<tr>
<td>Model 108FPS METRIC Pump Suction Control Valve</td>
<td>15</td>
</tr>
<tr>
<td>Model 108-2HP(Globe)/108-2HPA(Angle) METRIC Fire Pump Relief Valve</td>
<td>16</td>
</tr>
<tr>
<td>Model 1330Fc Pressure Relief Valve / N.c. Thermal Expansion Relief Valve 1330Fc</td>
<td>16</td>
</tr>
<tr>
<td>Local and Remote Actuated Monitor Valves</td>
<td>17</td>
</tr>
<tr>
<td>MO\M Manually Actuated Monitor Valve</td>
<td>17</td>
</tr>
<tr>
<td>MO\RC Remote Hydraulic/Pneumatic Actuated Monitor Valve</td>
<td>17</td>
</tr>
<tr>
<td>MO\EL Electrically Actuated Monitor Valve</td>
<td>17</td>
</tr>
<tr>
<td>Water Level Control Valves</td>
<td>18</td>
</tr>
<tr>
<td>FL Modulating Float Control Valve</td>
<td>18</td>
</tr>
<tr>
<td>FLEL Electric Float Control Valve</td>
<td>18</td>
</tr>
<tr>
<td>FLDI Differential Float Pilot Control Valve</td>
<td>19</td>
</tr>
<tr>
<td>AL Altitude Pilot Control Valve</td>
<td>19</td>
</tr>
<tr>
<td>Deluge Pressure Reducing Valve Range</td>
<td>20</td>
</tr>
<tr>
<td>DE\HRVPR Hydraulically actuated anti-columnning Deluge Pressure Reducing Valve</td>
<td>20</td>
</tr>
<tr>
<td>DE\ELHRVP\PR Electrically or Hydraulically actuated Deluge Pressure Reducing Valve 2/2 solenoid</td>
<td>20</td>
</tr>
<tr>
<td>DE\ELPR Electrically actuated Deluge Pressure Reducing Valve 3/2 solenoid</td>
<td>21</td>
</tr>
<tr>
<td>DE\RCPR Electrically actuated Deluge Pressure Reducing Valve 3/2 solenoid</td>
<td>21</td>
</tr>
<tr>
<td>DE\RCLPR Electrically actuated Deluge Pressure Reducing Valve 3/2 solenoid</td>
<td>22</td>
</tr>
<tr>
<td>DE\PORVPR Pneumatically actuated Deluge Pressure Reducing Valve</td>
<td>22</td>
</tr>
<tr>
<td>DE\ELPORV\PR Electrically or Pneumatically actuated Deluge Pressure Reducing Valve</td>
<td>23</td>
</tr>
<tr>
<td>Hydrant Valve Range</td>
<td>23</td>
</tr>
<tr>
<td>HY Hydrant Hydrant Valve</td>
<td>23</td>
</tr>
<tr>
<td>HY\PR1 Hydraulic Pressure-Reducing Hydrant Valve</td>
<td>23</td>
</tr>
<tr>
<td>HY\PR2 Hydraulic Pressure-Reducing Hydrant Valve</td>
<td>23</td>
</tr>
<tr>
<td>Zero Pressure Foam Valve Range</td>
<td>24</td>
</tr>
<tr>
<td>ZP\EL Foam Concentrate Electrically actuated Double chamber Control Valve</td>
<td>24</td>
</tr>
<tr>
<td>ZP\HM Slaved Hydraulic Pilot actuated Foam Concentrate Double chamber Control Valve</td>
<td>24</td>
</tr>
<tr>
<td>ZP\H Slaved Hydraulic actuated over the seat Foam Concentrate Double chamber Control Valve</td>
<td>25</td>
</tr>
</tbody>
</table>
General Description

Dorot UL listed basic untrimmed valve models: 30U, 30CU, 30AU

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

Features

- UL-listed with a wide range of control trims
- Fast opening and soft closure operation
- Drip-tight hermetic shut off to ANSI FCI 70-2
- Simple and reliable design
- Easy installation and maintenance
- Double or single chamber
- High-grade construction materials
- Reliable pressure control from near zero flow
- Low pressure losses at high flow rates

Optional Features

- Local or remote reset
- Manual, Electric, Hydraulic, Pneumatic and Pneu-electric UL-listed control trims
- Explosion-proof, SIL redundant solenoids & trim accessories
- Sea water service

UL listings

The valves are UL listed as “Fire Pump Relief Valves” (QXZO.EX15231), “Special Systems Water Control Valves” - Deluge (VLFT.EX15233) and “Special System Water Control Valves, Pressure-reducing and Pressure-control” (VLMTEX15232) types. Consult the UL listing guide or contact Dorot for a complete list of approved applications and valve sizes (2”/DN50 - 12”/DN300)

Specifications

Sizes:

- Straight Flow 40-800 mm 1¼” - 32”
- Angle 40-200 mm 1¼” - 8”

End Details:

- Flanged:
  - ISO PN10, PN16 and PN25
  - ANSI B16.42 class 150 & 300
  - AS Tables D & E, JIS
- Additional options available upon request

- Threaded:
  - BSP or NPT
  - Grooved

- Pressure rating:
  - 250 psi for class # 150
  - 375 psi for class # 300

- Temperature range: Water up to 80°C / 180°F max

Materials

- Body & Cover:
  - Ductile Iron ASTM A-536
  - Cast Steel ASTM A216 WCB or low temp. A352
  - Stainless Steel CF8M, CF8
  - Naval Bronze ASTM B61
  - NAB Ni-Al-Bronze ASTM B148 C-95800

- Coating: UV Protected Fusion Bonded Epoxy

Optional:

- Polyester, Halar & other coatings conforming to ISO-12944 C4, C5 & C5M

Main valve trim:

- Stainless Steel & Bronze

Elastomers:

- Rubber, NR, NBR, EPDM, BUNA-N

Control trim & Accessories:

- Brass, Bronze, SST Monel, Special Materials

* Additional materials & coatings available upon request
### Principle of Operation

### Dimensions and Weights

<table>
<thead>
<tr>
<th>Valve Size</th>
<th>50 (2”)</th>
<th>65 (2 1/8”)</th>
<th>80 (3”)</th>
<th>100 (4”)</th>
<th>150 (6”)</th>
<th>200 (8”)</th>
<th>250 (10”)</th>
<th>300 (12”)</th>
<th>350 (14”)</th>
<th>400 (16”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
</tr>
<tr>
<td>FL</td>
<td>230</td>
<td>9 11/16</td>
<td>292</td>
<td>11 7/8</td>
<td>310</td>
<td>12 1/8</td>
<td>350</td>
<td>13 7/8</td>
<td>480</td>
<td>18 1/8</td>
</tr>
<tr>
<td>FH</td>
<td>185</td>
<td>7 11/16</td>
<td>185</td>
<td>7 11/16</td>
<td>230</td>
<td>9 1/16</td>
<td>240</td>
<td>8 9/16</td>
<td>330</td>
<td>13 9/16</td>
</tr>
<tr>
<td>W *</td>
<td>170</td>
<td>7 7/16</td>
<td>170</td>
<td>7 7/16</td>
<td>200</td>
<td>7</td>
<td>235</td>
<td>9 7/16</td>
<td>330</td>
<td>13 9/16</td>
</tr>
<tr>
<td>FR</td>
<td>82.5</td>
<td>3 11/16</td>
<td>82.5</td>
<td>3 11/16</td>
<td>100</td>
<td>3 3/8</td>
<td>110</td>
<td>4 7/16</td>
<td>142.5</td>
<td>5 9/16</td>
</tr>
<tr>
<td>TL</td>
<td>215</td>
<td>8 1/16</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>111/16</td>
<td>41/2</td>
</tr>
<tr>
<td>TH</td>
<td>209</td>
<td>8 1/16</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>111/16</td>
<td>41/2</td>
</tr>
<tr>
<td>TR</td>
<td>62</td>
<td>2 1/16</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>AL</td>
<td>500</td>
<td>20 0/16</td>
<td>N/A</td>
<td>N/A</td>
<td>250</td>
<td>9 9/16</td>
<td>295</td>
<td>11 7/16</td>
<td>405</td>
<td>16 7/16</td>
</tr>
<tr>
<td>AH</td>
<td>240</td>
<td>9 7/16</td>
<td>N/A</td>
<td>N/A</td>
<td>415</td>
<td>16 9/16</td>
<td>445</td>
<td>17 3/4</td>
<td>570</td>
<td>22 7/16</td>
</tr>
<tr>
<td>AB</td>
<td>125</td>
<td>5 3/16</td>
<td>N/A</td>
<td>N/A</td>
<td>150</td>
<td>5 7/16</td>
<td>173</td>
<td>6 9/16</td>
<td>240</td>
<td>9 15/16</td>
</tr>
<tr>
<td>AR</td>
<td>107</td>
<td>4 7/16</td>
<td>N/A</td>
<td>N/A</td>
<td>138</td>
<td>5 3/16</td>
<td>147</td>
<td>5 3/8</td>
<td>180</td>
<td>7 7/16</td>
</tr>
<tr>
<td>Vol. Control Chamber Lit./gal.</td>
<td>0.1 / 0.03</td>
<td>0.1 / 0.03</td>
<td>0.3 / 0.08</td>
<td>0.7 / 0.18</td>
<td>1.5 / 0.4</td>
<td>4.3 / 1.1</td>
<td>9.7 / 2.6</td>
<td>18.6 / 4.9</td>
<td>18.6 / 4.9</td>
<td>50 / 13.2</td>
</tr>
<tr>
<td>Weight kg/lbs</td>
<td>12 / 26</td>
<td>13 / 29</td>
<td>22 / 48</td>
<td>37 / 82</td>
<td>80 / 176</td>
<td>157 / 346</td>
<td>245 / 540</td>
<td>405 / 892</td>
<td>510 / 1123</td>
<td>822 / 1810</td>
</tr>
</tbody>
</table>

* Valve Width
**General Description**

Dorot UL listed basic untrimmed valve models: 68, 44*, 77*

Dorot Series 100 valves are automatic, hydraulically actuated, direct diaphragm sealing weir / globe type valves with proven and reliable design. The valves are designed for use in fire protection applications including deluge, pre-action, pressure control, water, foam and seawater fire protection systems. The valves consist of three major components: body, cover and diaphragm. The only moving part is the diaphragm.

* Pictures of models 44 & 77 are not shown in this page

**Features**

- UL-listed with a wide range of control trims
- Fast opening and soft closure operation
- Drip-tight hermetic shut off to ANSI FCI 70-2
- Simple and reliable design
- Easy installation and maintenance
- High-grade construction materials
- Reliable pressure control from near zero flow
- Exceptionally low pressure losses

**Optional Features**

- Latched opening or remote reset
- Manual, Electric, Hydraulic, Pneumatic and Pneu-electric UL-listed control trims
- Explosion-proof, SIL redundant solenoids & trim accesories
- Sea water service

**UL listings**

The valves are UL listed as “Fire Pump Relief Valves” (QXZQ.EX15231), “Special Systems Water Control Valves” - Deluge (VLFT.EX15233) and “Special System Water Control Valves, Pressure-reducing and Pressure-control” (VLMT.EX15232) types. Consult the UL listing guide or contact Dorot for a complete list of approved applications and valve sizes (2"/ DN50 - 10"/ DN250)

**Specifications**

**Sizes**

- Straight Flow 20-600 mm / 3/4" - 24"
- Angle 40-150 mm / 1 1/2" - 6"

**End Details:**

- Flanged:
  - ISO PN10, PN16 and PN25
  - ANSI B16.42 class 150, 250 & 300
  - AS Tables D & E, JIS

**Additional options available upon request**

- Threaded: BSP or NPT
- Grooved
- Pressure rating:
  - 250 psi for class # 150
  - 375 psi for class # 300
- Temperature range: Water up to 80°C / 180°F max

**Materials**

- **Body & Cover:**
  - Ductile Iron ASTM A-536
  - Cast Steel ASTM A216 WCB or low temp. A352
  - Stainless Steel CF8M, CF8
  - Naval Bronze ASTM B61
  - NAB Ni-Al-Bronze ASTM B148 C-95800
- **Coating:** UV Protected Fusion Bonded Epoxy
- **Optional:** Polyester, Halar & other coatings conforming to ISO-12944 C4, C5 & C5M
- **Main valve trim:** Stainless Steel & Bronze
- **Elastomers:** Rubber, NR, NBR, EPDM, BUNA-N
- **Control trim & Accessories:** Brass, Bronze, SST Monel, Special Materials

* Additional materials & coatings available upon request
### Series 100 Basic Hydraulic Valves

#### Principle of Operation

#### Dimensions and Weights

<table>
<thead>
<tr>
<th>Valve Size</th>
<th>50 (2&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>
<th>350 (14&quot;)</th>
<th>400 (16&quot;)</th>
<th>450 (18&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
</tr>
<tr>
<td>L</td>
<td>200</td>
<td>7 15/16</td>
<td>285</td>
<td>11 3/8</td>
<td>305</td>
<td>12</td>
<td>390</td>
<td>15 13/16</td>
<td>460</td>
<td>18 1/8</td>
</tr>
<tr>
<td>H</td>
<td>166</td>
<td>6 5/8</td>
<td>200</td>
<td>7 15/16</td>
<td>230</td>
<td>9</td>
<td>314</td>
<td>12 3/16</td>
<td>400</td>
<td>15 5/8</td>
</tr>
</tbody>
</table>

#### Approx. Weight

<table>
<thead>
<tr>
<th></th>
<th>kg/lbs</th>
<th>kg/lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>28 1/8</td>
<td>71.5</td>
</tr>
<tr>
<td>H</td>
<td>28 1/8</td>
<td>71.5</td>
</tr>
<tr>
<td>R</td>
<td>28 1/8</td>
<td>71.5</td>
</tr>
<tr>
<td>W *</td>
<td>30 1/2</td>
<td>113.8</td>
</tr>
</tbody>
</table>

* Valve Width
**DE\HM**

**Hydraulically Actuated Deluge Valve**

*Hydraulic pilot actuated control valve*

The valve maintains a closed position and instantly opens upon a hydraulic pressure drop in a pressurized sprinkler sensor line, limited to 7m above the valve or by manual emergency actuation.

**Features:**
- UL listed
- Simple structure
- Optional manual reset (model DE\HM-MR)
- Optional pressure reducing function

**Applicable for:**
- Deluge
- Single-Interlock Pre-Action
- Water, Sea water and Foam

---

**DE\HRV**

**Hydraulically Actuated, Anti-Columnning Deluge Valve**

*Hydraulic pilot actuated control valve*

The valve maintains a closed position and instantly opens upon a hydraulic pressure drop in a pressurized sprinkler system or by manual emergency actuation.

**Features:**
- UL listed
- Simple structure
- Optional manual reset (model DE\HRV-MR)
- Optional pressure reducing function

**Applicable for:**
- Deluge
- Single-Interlock Pre-Action
- Water, Sea water and Foam
DeVel

Electrically Actuated Remote Reset Deluge Valve
2/2 solenoid

Electric solenoid actuated control valve
The valve maintains a closed position and instantly opens by energizing a solenoid valve.

Features:
• UL listed
• Simple structure
• Remote reset - optional manual reset (model De\EL-MR)
• Optional pressure reducing function

Applicable for:
• Deluge
• Single or double Interlock Pre-Action
• Water, Sea water and Foam
**DE\RC**

Electrically Actuated Deluge Valve
3/2 Solenoid

**Electrically actuated, remote reset deluge valve**
The valve maintains a closed position and instantly opens by energizing a solenoid valve or by manual emergency actuation.

**Features:**
- UL listed
- Simple structure
- Remote reset - optional manual reset (model DE\RC-MR)
- Optional pressure reducing function

**Applicable for:**
- Deluge
- Single or double Interlock Pre-Action
- Water, Sea water and Foam

---

**DE\RCL**

Electrically Actuated Manual Reset Deluge Valve

**Electrically actuated, manual reset deluge valve**
The valve maintains a closed position and instantly opens by energizing a solenoid valve or by manual emergency actuation. The valve will close only after a manual reset is activated.

**Features:**
- UL listed
- Simple structure
- Manual reset
- Optional pressure reducing function

**Applicable for:**
- Deluge
- Single or double Interlock Pre-Action
- Water, Sea water and Foam
**DE\RCE**

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

Electrically actuated, latching type, manual reset & electric remote reset deluge valve
The valve maintains a closed position and opens when the ‘Open’ solenoid valve is energized or by manual emergency actuation. The valve will be remotely closed by energizing the ‘Close’ solenoid valve or by manually pressing the RCE relay reset knob.

**Features:**
- UL listed
- Simple structure
- Manual reset and remote reset
- Optional pressure reducing function

**Applicable for:**
- Deluge
- Single or double Interlock Pre-Action
- Water, Sea water and Foam

---

**DE\EL (CN)**

**Electrically Actuated Deluge Valve (Chinese standard)**

Electrically actuated, manual reset deluge valve
The valve maintains a closed position and instantly opens by energizing a solenoid valve or by manual emergency actuation. The valve will close only after a manual reset is activated.

**Features:**
- Chinese standard certified
- Simple structure
- Manual reset
- Optional pressure reducing function

**Applicable for:**
- Deluge
- Single-Interlock Pre-Action
- Water, Sea water and Foam
**DE\EL\HRV**

*Electro-Hydraulically Actuated, Anti-Columnning Deluge Valve*

**Electrically and/or Hydraulically actuated control valve**
The valve maintains a closed position and instantly opens upon an hydraulic pressure drop in a pressurized sprinkler system or by energizing a solenoid valve or by manual emergency actuation.

**Features:**
- UL listed
- Simple structure
- Remote reset - optional manual reset (model DE\EL\HRV-MR)
- Optional pressure reducing function

**Applicable for:**
- Deluge
- Single-Interlock Pre-Action
- Water, Sea water and Foam

---

**DE\PORV**

*Pneumatically Actuated Deluge Valve*

**Pneumatic actuated deluge valve.**
The valve maintains a closed position and instantly opens upon an air/gas pressure drop in a pressurized sprinkler system or by manual emergency actuation.

**Features:**
- UL listed
- Simple structure
- Optional manual reset (model DE\PORV-MR)
- Optional pressure reducing function

**Applicable for:**
- Deluge
- Dry pipe
- Single-Interlock Pre-Action
- Water, Sea water and Foam
**DE\EL\PORV**

**Electro-Pneumatically Actuated Deluge Valve**

Electically and/or Pneumatically actuated control valve
The valve maintains a closed position and instantly opens upon an air/gas pressure drop in a pressurized sprinkler system or by energizing a solenoid valve or manual emergency actuation.

**Features:**
- UL listed
- Simple structure
- Remote reset - optional manual reset (model DE\EL\PORV-MR)
- Optional pressure reducing function

**Applicable for:**
- Deluge
- Dry pipe
- Non-Interlock, Single-Interlock Pre-Action
- Water, Sea water and Foam

---

**DE\EL\PORV\DN**

**Double-Interlock Pre-action, Electric-Pneumatic Release System**

Pneumatically and Electrically actuated control valve
The valve maintains a closed position and instantly opens upon an air/gas pressure drop in a pressurized sprinkler system and by simultaneously energizing a solenoid valve, or manual emergency activation.

**Features:**
- UL listed
- Simple structure
- Remote reset - optional manual reset (model DE\EL\PORV\DN-MR)
- Optional pressure reducing function

**Applicable for:**
- Double-Interlock Pre-Action
- Water, Sea water and Foam
**PRUL**

**Pressure Reducing Valve**

**Hydraulic pressure-reducing valve**
The valve maintains a preset fixed downstream pressure, regardless of upstream pressure or flow fluctuations.

**Pressure rating, adjustment range & features:**
- UL Listed pressure rating/maximum upstream pressure (psi)
  - Class 150 (ISO PN16) - 175-250psi
  - Class 300 (ISO PN25) - 375psi
- UL listed downstream pressure adjustment range under VLMT EX.15232 & VLMT EX.xxxxx file (consult)
  - Class 150 (ISO PN16) 30-165 psi
  - Class 300 (ISO PN25) 30-165 psi
- **Combination Deluge Pressure reducing valves**
  - Class 150 (ISO PN16) & Class 300 (ISO PN25) 50-300 psi
- Other / Optional Pressure adjustment range: 15-360 psi
- Reliable pressure control from near zero flow to full flow with no need for additional throttling plug or by-pass valves
- Exhibits the same low pressure losses as in the basic valve
- Simple structure

**Applicable for:**
- Water, Sea water and Foam

---

**PSUL**

**Pressure Relief Valve**

**Hydraulic pressure relief valve**
The valve maintains a steady preset upstream pressure. Should the upstream pressure exceed the required set point, the valve opens, releasing excessive pressure. When the pressure falls below the preset level, the valve closes drip tight.

**Pressure rating, adjustment range & features:**
- UL listed pressure rating/maximum pressure (psi)
  - Class 150 (ISO PN16) - 250 psi max.
  - Class 300 (ISO PN25) - 375 psi max
- UL listed pressure relief ranges under QXZQ.EX15231 & QXZQ.EXxxxxx file (consult)
- UL listed maximum relief pressure (psi):
  - Class 150 (ISO PN16) - 175 psi & 205 psi
  - Class 300 (ISO PN25) - 375 psi
- Reliable pressure control from near zero flow to full flow with no need for additional throttling plug or by-pass valves
- Exhibits the same low pressure losses as in the basic valve
- Simple structure

**Applicable for:**
- Water, Sea water and Foam
Model 108FC (Globe)/108FCA (Angle) METRIC 
Fire Pump Relief Valve

The Model 108FC automatically relieves excess fire pump discharge pressure, to prevent the pressure from exceeding the rating of the fire system components.

Features:
- Limits maximum pump discharge pressure
- Opens quickly; maintains pressure within close limits
- Adjustable: 4.1 - 12.4 bar or 6.9 - 20.7 bar
- Pilot-operated main valve
- Pressure setting is adjustable with single screw
- Factory tested and pre-set to your requirements
- UL Listed & Factory Mutual Approved for both split-case centrifugal and vertical turbine pumps
- Sizes 3” (DN80) - 8” (DN200), globe and angle pattern
- ANSI Flanged Class 150, Class 300, and 300 inlet x 150 outlet
- Wide range Model 108FCA of materials available

Model 108FPS METRIC 
Pump Suction Control Valve

The Model 108FPS is used to prevent the fire pump from outdrawing the available supply. In so doing, it protects the pump suction supply from damage associated with too low a pressure and assures adequate supply pressure to the fire system components.

Features:
- Maintains minimum pump suction pressure
- Installs on fire pump discharge; senses pump suction
- Suction pressure is adjustable with single screw
- Adjustable .34 - 2.0 bar range
- Sizes 3” (DN80) - 8” (DN200), globe and angle
- Pilot-operated main valve
- Maintain without removal from the line
- Adjustable opening speed
- Factory tested and can be pre-set to your requirements
- Factory Pump Suction Control Valve Mutual Approved
Model 108-2HP(Globe)/108-2HPA(Angle) METRIC
Fire Pump Relief Valve

The Model 108-2HP 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 those 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 pre-set to your requirements
- Sizes 3” (DN80) - 8” (DN200), globe and angle pattern
- ANSI Flanged Class 300, and 300 inlet x 150 outlet
- Wide range Model 108-2HPA of materials available

Model 1330Fc Pressure Relief Valve / N.c.
Thermal Expansion Relief Valve 1330Fc

The Model 1330FC is a pressure relief valve that is 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 should become over pressurized, the 1330FC will open and relieve the excess pressure, preventing damage.

Features:
- UL Listed, Control Number 39TZ
- Normally closed, increasing inlet pressure opens valve
- UL Listed spring 20-175 psi
- Local sense line (self contained sense loop)
- Simple adjustment
- All parts replaceable while valve is installed
- Rubber to metal seat for positive shut-off
- Can be installed vertically or horizontally
Local and Remote Actuated Monitor Valves

**MO\M**
Manually Actuated Monitor Valve

The valve is manually actuated by a selector valve which allows the user to open or close the valve quickly and effortlessly, even under high pressure conditions.

**Features:**
- Effortless open/close actuation
- Fast response
- Simple and reliable design
- Easy installation and maintenance
- The application is based on the UL listed valves

**MO\RC**
Remote Hydraulic/Pneumatic Actuated Monitor Valve

A 3-way relay valve, actuated by hydraulic or pneumatic pressure command, which opens or closes the main valve. The standard valve is supplied in the “normally closed” position. The “normally open” position is optional.

**Features:**
- Fast response, even for long control lines
- Simple and reliable design
- Easy installation and maintenance
- The application is based on the UL listed valves

**MO\EL**
Electrically Actuated Monitor Valve

The valve is electrically actuated by a 3-way solenoid valve which remotely opens and closes the valve.

**Features:**
- Low power electric actuation
- Simple and reliable design
- Easy installation and maintenance
- The application is based on the UL listed valves
**FL**

**Modulating Float Control Valve**

The main valve is controlled by a float assembly, located in the tank or reservoir and set to the required maximum water level. The valve constantly maintains the maximum level.

**Features:**
- Accurate level control
- Simple and reliable design
- Easy installation and maintenance
- The application is based on the UL listed valves

**FLEL**

**Electric Float Control Valve**

The main valve is actuated by a 3-way solenoid to an electric sensor float, located in the tank/reservoir. The sensor provides open and close commands to the solenoid valve. The main valve fully opens and closes drip tight upon command, when the solenoid is de-energized, thus enabling accurate and reliable differential level control. Optional Addition: dynamic surge-preventing closing.

**Features:**
- Accurate differential level control
- Low power electric actuation
- Fast response
- Simple and reliable design
- Easy installation and maintenance
- The application is based on the UL listed valves
**FLDI**

**Differential Float Pilot Control Valve**

The main valve is controlled by a float assembly, closing it when the water reaches maximum level, and opening it when the water drops to its preset minimum level. The differential between the maximum and the minimum levels is adjustable. Optional addition: dynamic, surge preventing shutoff.

**Features:**
- Accurate differential level control
- Adjustable differential
- Fast response
- Simple and reliable design
- Easy installation and maintenance
- The application is based on the UL listed valves

---

**AL**

**Altitude Pilot Control Valve**

The main 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 of the water. The pilot allows for differential adjustments between the maximum and minimum level. Optional addition: dynamic, surge preventing shutoff.

**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
- The application is based on the UL listed valves
**DE\HRV\PR**

Hydraulically actuated anti-columning Deluge Pressure Reducing Valve

*Hydraulically activated, Pilot-controlled Deluge/Pre-Action*

Pressure Reducing 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 sensor 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
- Optional manual reset (model DE\HRV(MR)\PR)

**Applicable for:**
- Deluge or Single-Interlock Pre-Action type valves
- Dry pipe
- Water, Sea water and Foam

**DE\EL\HRV\PR**

Electrically or Hydraulically actuated Deluge Pressure Reducing Valve

Electrically or Hydraulically, Pilot-controlled Deluge/Pre-Action Pressure Reducing 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 sensor 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
- Remote reset - optional manual reset (model DE\EL\HRV(MR)\PR)

**Applicable for:**
- Deluge or Single-Interlock Pre-Action type valves
- Dry pipe
- Water, Sea water and Foam
**DE\EL\PR**

**Electrically actuated Deluge Pressure Reducing 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
- Remote reset

**Applicable for:**
- Deluge or Single-Interlock Pre-Action type valves
- Dry pipe
- Water, Sea water and Foam

---

**DE\RC\PR**

**Electrically actuated Deluge Pressure Reducing Valve**  
3/2 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 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
- Remote reset - optional manual reset (model DE\RCL\PR)

**Applicable for:**
- Deluge or Single-Interlock Pre-Action type valves
- Dry pipe
- Water, Sea water and Foam
**DE\RCL\PR**

**Electrically actuated Deluge Pressure Reducing Valve**

3/2 solenoid

Electrically-controlled Deluge/Pre-Action Pressure Reducing, Manual Reset 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 activation using the RCL relay’s knob. 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
- Manual reset

**Applicable for:**
- Deluge or Single-Interlock Pre-Action type valves
- Dry pipe
- Water, Sea water and Foam

---

**DE\PORV\PR**

**Pneumatically actuated Deluge Pressure Reducing Valve**

Pneumatically-Activated, Pilot-controlled Deluge/Pre-Action Pressure Reducing 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 sensor 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
- Remote reset - optional manual reset (model DE\PORV(MR)\PR)

**Applicable for:**
- Deluge or Single-Interlock Pre-Action type valves
- Dry pipe
- Water, Sea water and Foam
Deluge Pressure Reducing & Hydrant Valve Range

**DE\EL\PORV\PR**

**Electrically or Pneumatically actuated Deluge Pressure Reducing Valve**

Electrically or Pneumatically, Pilot-controlled Deluge/Pre-Action Pressure Reducing 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 sensor 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
- Remote reset - optional manual reset (model DE\EL\PORV(MR)\PR)

**Applicable for:**
- Deluge or Single-Interlock Pre-Action type valves
- Dry pipe
- Water, Sea water and Foam

**HY**

**Hydraulic Hydrant Valve**

The valve is manually actuated by a selector valve which allows the user to open or close the valve quickly and effortlessly, even under high pressure conditions. Opening and closing speed are controlled by an in-line orifice.

**HY\PR1**

**Hydraulic Pressure-Reducing Hydrant Valve**

The valve is manually actuated, allowing the user to open or close the valve quickly and effortlessly, even under high pressure conditions. Opening and closing rates are regulated by in-line orifices and pressure is limited to a preset level.

**HY\PR2**

**Hydraulic Pressure-Reducing Hydrant Valve**

The valve is manually actuated by a selector valve which allows the user to open or close the valve quickly and effortlessly, even under high pressure conditions. Downstream pressure is dynamically determined using an adjustable set point pilot valve.

**Features:**
- Effortless open/close actuation
- Controlled response
- Simple and reliable design
- Easy installation and maintenance
**ZP\EL**

**Zero Pressure Foam Concentrate Electrically actuated Double chamber Slave Control Valve**

The 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 3/2 solenoid is actuated it allows the valve to be forced open by the upstream pressure of its master’s valve 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 St. St. construction
- Double chamber zero pressure operated by deluge water mains
- Electric remote actuation and remote reset, manual emergency actuation
- The application is based on UL listed Valves

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

---

**ZP\HM**

**Hydraulic Pilot actuated Zero Pressure Foam Concentrate Double chamber Slave Control Valve**

The 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 slave valve is forced open through the pilot valve by the upstream pressure of its master’s valve 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 St. St. 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
- The application is based on UL listed valves

**Applicable for:**
- Control of water & seawater, AFFF concentrate foam systems
Zero Pressure Foam Valve Range

ZPH
Zero-Pressure, Foam-Concentrate, Over-the-Seat Hydraulic-Actuated, Double-Chamber, Hydraulic Slave Control Valve

The valve is installed downstream of the foam concentrate holding tank and is closed in its normal, set position. The slave 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 St. St. 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
• The application is based on UL listed valves

Applicable for:
• Control of water & seawater, AFFF concentrate foam systems
Pictures of products
OCV Fluid Solutions aims to be the leading provider of fluid solutions for Fire Protection products. We take upon ourselves the responsibility of leading the market worldwide, to address all our partner’s needs. We place our knowledge, state of the art engineering and infrastructure at the service of our partners and together, we engage in sustainable practices for preserving earth’s resources and building a sustainable environment for future generations. Customer satisfaction and recognition are important for us. This guarantees uncompromised know-how, expertise and professionalism in planning, designing and providing the optimal fluid control solutions for various applications, ranging from basic systems to most hazardous applications in Fire Protection.