

## Pressure Operated Relief Valve

### Model PORV-O

The PORV is a direct acting on/off valve, actuated by a pressure responsive diaphragm, which tends to reach equilibrium with an adjustable set spring force.

The PORV is held closed by pneumatic or hydraulic pressure, sensed at its control chamber (under the diaphragm).

It opens in response to a pressure drop of the wet/dry pilot line to below the set point, and/or in response to pressure being drained from its control chamber by a solenoid or other releasing device.

The PORV is UL Listed when installed as part of the control trim of UL Listed deluge valves.



#### Materials

##### Body

- Stainless Steel 316 ASTM A351 Grade CF8M
- Forged Brass
- Nickel Aluminum Bronze ASTM B148 C95800

##### Springs

- Stainless Steel

##### Elastomers

- NBR

##### Wetted Parts

- Stainless Steel 303 & Brass (standard)
- Stainless Steel 316
- Monel 400
- Hastalloy C-276

##### Orifice

- 9 mm

##### Pressure Adjustment

Valve opens when pilot line pressure drop to the Setting Point

- Standard factory set: 1.5 bar (22 psi)

##### Pressure Rating

- 21 bar (300 psi)

##### Temperature

- Water upto 80°C (180°F)

##### Flow factor

- KV: 1.0 (CV:1.2)

##### Connections

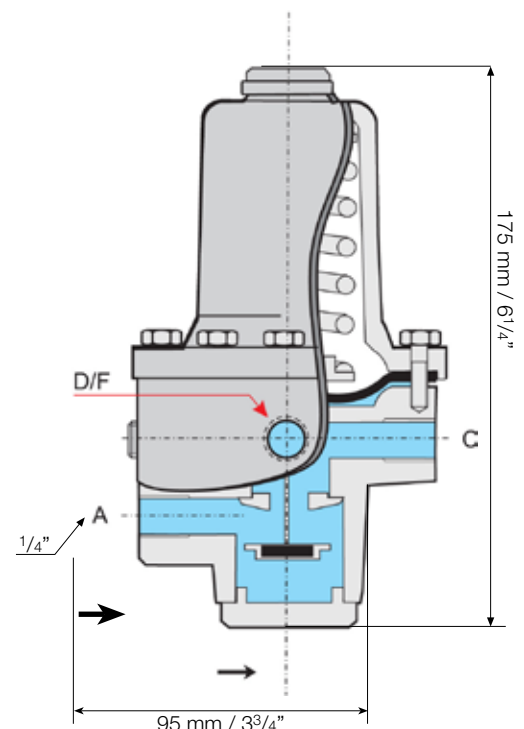
- 1/4" NPT

##### Approvals<sup>(1)</sup>

- UL-Listed
- VdS Certified

##### Option:

- Mechanical Latching type with Manual Reset, model PORV-M.  
The PORV-M latches on its open position when pilot line pressure drops below the set point.



Weight: 2.7 Kg / 6 lbs.

Note: 1: when installed on specific Bermad Deluge valve