# Pressure Operated Relief Valve

## Adjustable Type Model: PORV-A

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



#### **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: 5 bar (75 psi)
- Setting Range: 0.5 8 bar (7 115 psi)

## **Pressure Rating**

21 bar (300 psi)

## Temperature

Water upto 80°C (180°F)

### Flow factor

KV: 1.0 (CV:1.2)

#### **Connections**

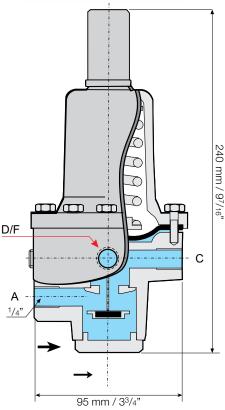
¼" NPT

## Approvals(1)

UL-Listed

Note: 1: when installed on specific Bermad Deluge valve





Weight: 2.7 Kg / 6 lbs.