

PRESSURE RELIEF/ SUSTAINING VALVE

with Solenoid Control

Model 1030-55

Solenoid controlled valve that can be set to close drip tight or modulate as pressure relief or sustaining in response to an electric signal. When modulating the valve sustains minimum pre-set, upstream pressure. If installed as a "branched from the line" it relieves excessive line pressure when above maximum pre-set.

The BERMAD 1000 is at the leading edge of control valve design, providing a valve that is free of the typical limitations associated with standard control valves. A unitized flexible diaphragm & guided plug provide a significantly 'look through' passage resulting in accurate & stable regulation and high flow capacity.

The 1000 unique composite structure allows fast & simple maintenance by easy replacing of lightweight diaphragm assembly. It has a wide range of end connection types and sizes, including articulated flange connections isolating the valve from pipeline bending & pressure stresses.



Features and Benefits

- Easy set-up
 - Super light weight
 - Line pressure driven no external driving power needed
 - Easy pressure setting in site or pre-ordered
 - Adaptable on-site to a wide range of end connection
- Simple and durable design
 - Excellent cavitation resistance
 - Highly durable construction & material No rust
 - Unitized actuator unit open, replace, close
 - In-line serviceable no need to remove from line
- All the benefits of a diaphragm actuated control valve
 - Wide flow range
 - Low flow stability
 - Drip tight sealing
 - Obstacle free flow pass
 - Easy addition of hydraulic features

Typical Applications

- Prioritizing upstream consumes over downstream high demand
- Sustaining sufficient pressure at upstream in case of pressure
- High pressure safety relief valve in potable water pressure reduction systems
- As a safety device for pumping stations temporarily operated out of their regular regime, where stable and constant pressure relief is required
- Sustains pump discharge pressure, preventing pump overload and cavitation damage caused by excessive demand
- Preventing line emptying in gravity lines
- Process flow control in facilitates requiring pressure control



All images in this catalog are for illustration only



Advanced Composite Polymer Material

Strong, inert and light weight; bringing the next generation of materials to the water supply industry

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Unitized Actuator Assembly

Allows fast and simple in-line maintenance

Reinforced Rolling Diaphragm

Durable and flexible operation

Unobstructed Flow

High capacity semi-straight flow for exceptionally low head loss

Internal Threads or Adaptors

Flexible option for Threaded, Groove or Flange connection

Technical Specifications

End Connections:

Threaded - Female NPT or BSP.T:

■ 1½"EN, 2"ES/EN, 3"ES/EN

Grooved - According to ANSI C606-81:

Adaptors on Threaded Body: 2"ES/EN, 3"ES/EN, 4"ES

Flanged - ISO-7005-2 (PN10/PN16), ANSI #125/ANSI #150, JIS K-10:

Universal Adaptors on Threaded Body: 3"ES/EN, 4"ES

Pressure Rating:

■ 1½"EN-4"ES: 250 psi; PN16

Valve Pattern:

- Y (Oblique)
- Angle consult factory for available sizes

Temperature: For Cold Water Applications

Consult Bermad For hot water applications.

Main Valve Materials:

Body, Cover and Actuator assembly:

Reinforced Polyamide

Cover Bolts: Stainless Steel 304

Spring: Stainless Steel 302 (Optional 316)

Diaphragm: EPDM Seals: EPDM

Trim:

Accessories: Stainless Steel / Bronze & Brass / Polyamide

Tubing: Polypropylene

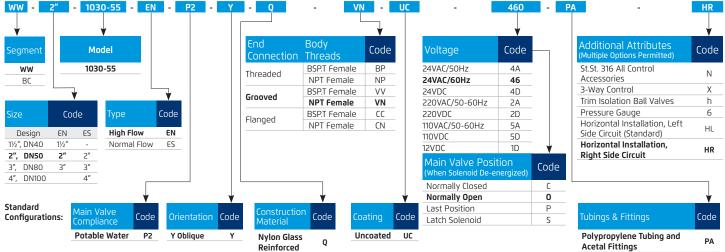
Fittings: Stainless Steel / Brass / Acetal

Notes

- Inlet pressure, outlet pressure and flow rate are required for optimal sizing and cavitation analysis
- Recommended continuous flow velocity: 0.3-20 ft/sec; 0.1-6.0 m/sec
- Minimum operating pressure: 10 psi / 0.7 bar. For lower pressure requirements consult factory

How To Order

Please Specify the requested valve in the following sequence:





For detailed Engineering & Specification data, IOM and CAD Drawings, visit the Model Page on the <u>BERMAD</u> website.

www.bermad.com