

PRESSURE RELIEF/ SUSTAINING VALVE

Model 1030

Pressure relief/sustaining hydraulically operated control valve that can fulfill either of two separate functions: When installed in-line, it sustains minimum pre-set, upstream (back) pressure regardless of fluctuating flow or varying downstream pressure. When installed as a "branched from the line" circulation valve 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.

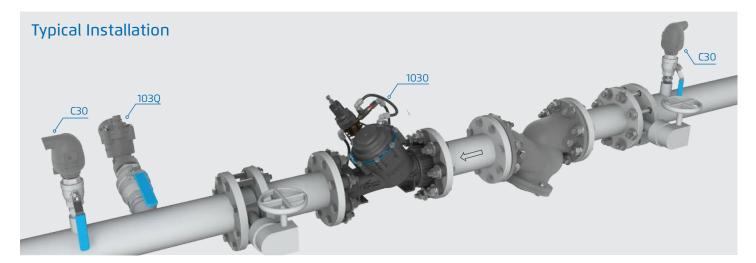


Features and Benefits

- Easy set-up
 - Super light weight
 - Line pressure driven no external 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



All images in this catalog are for illustration only

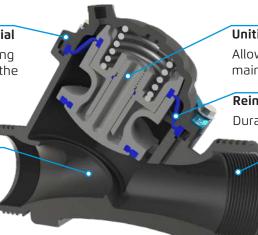






Strong, inert and light weight; bringing the next generation of materials to the

water supply industry



Unitized Actuator Assembly

Allows fast and simple in-line maintenance

Reinforced Rolling Diaphragm

Durable and flexible operation

Internal Threads or Adaptors

Flexible option for Threaded, Groove or Flange connection

Unobstructed Flow

High capacity semi-straight flow for exceptionally low head loss

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

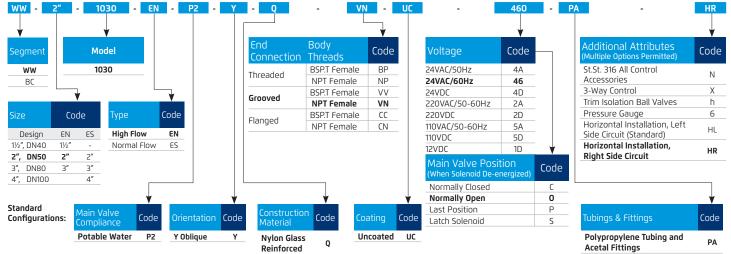
Fittings: Stainless Steel / Brass / Acetal

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







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

www.bermad.com