

Model 1023

Hydraulically operated control valve with independent Pressure Sustaining and Pressure Reducing functions. It sustains minimum pre-set upstream pressure, regardless of fluctuating flow or varying downstream pressure, and it prevents downstream pressure from rising above maximum pre-set level, regardless of fluctuating flow or excessive upstream pressure.

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.

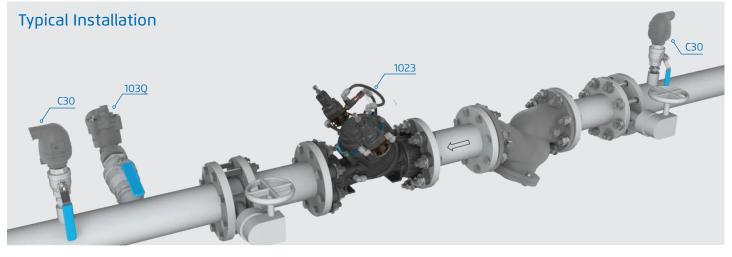
The 1000 unique composite structure allows fast & simple maintenance by easy replacing of lightweight diaphragm assembly. It has a wide range of end connection types and sizes, including articulated flange connections isolating the valve from pipeline bending & pressure stresses.

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

- Maintaining pre-set maximum pressure in pipe lines through the day for leakage reduction
- Pressure reduction for main off-branching lines requiring lower pressure
- Sustaining sufficient pressure at upstream in case of pressure drop
- Elimination of pressure fluctuation from dynamic pressure losses at end consumers
- Supplying safe pressure to facilities and households with low pressure rated appliances
- Prioritizing upstream consumes over downstream high demand
- Preventing line emptying in gravity lines



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Advanced Composite Polymer Material

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:

rim:

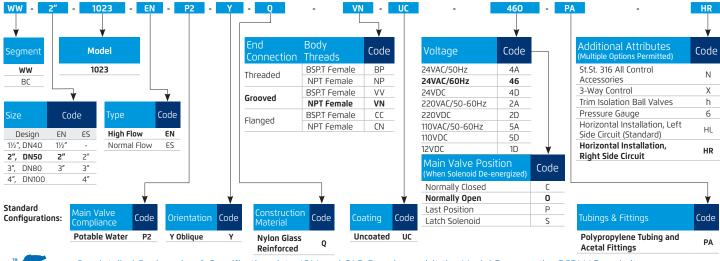
Accessories: Stainless Steel / Bronze & Brass / Polyamide Tubing: Polypropylene Fittings: Stainless Steel / Brass / Acetal

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 BERMAD website.

www.bermad.com

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