PRESSURE REDUCING VALVE

Model 1020

Hydraulically operated, pressure reducing control valve that reduces higher upstream pressure to lower constant downstream pressure, regardless of fluctuating demand or varying 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
- Elimination of pressure fluctuation from dynamic pressure losses at end consumers
- Supplying safe pressure to facilities and households with low pressure rated appliances



All images in this catalog are for illustration only

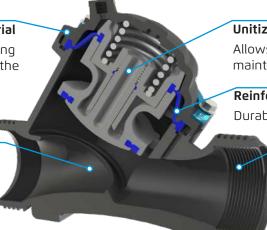




Advanced Composite Polymer Material

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

water supply industry



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

for exceptionally low head loss

High capacity semi-straight flow

Unobstructed Flow

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

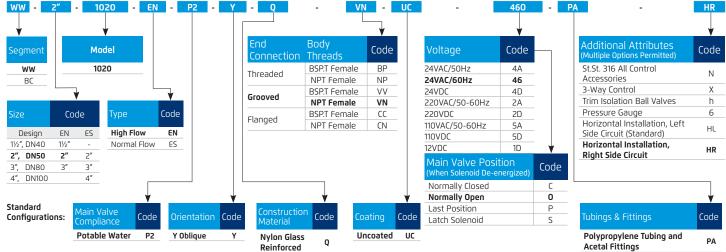
Fittings: Stainless Steel / Brass / Acetal

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