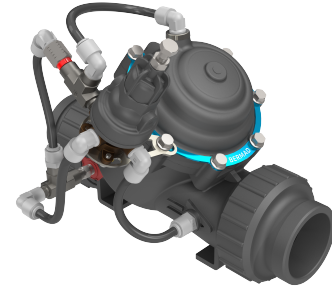


PRESSURE RELIEF/SUSTAINING VALVE

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 control valve features advanced design, accurate regulation, and high flow capacity. Its unique structure allows easy maintenance and supports various end connections to reduce pipeline stress.



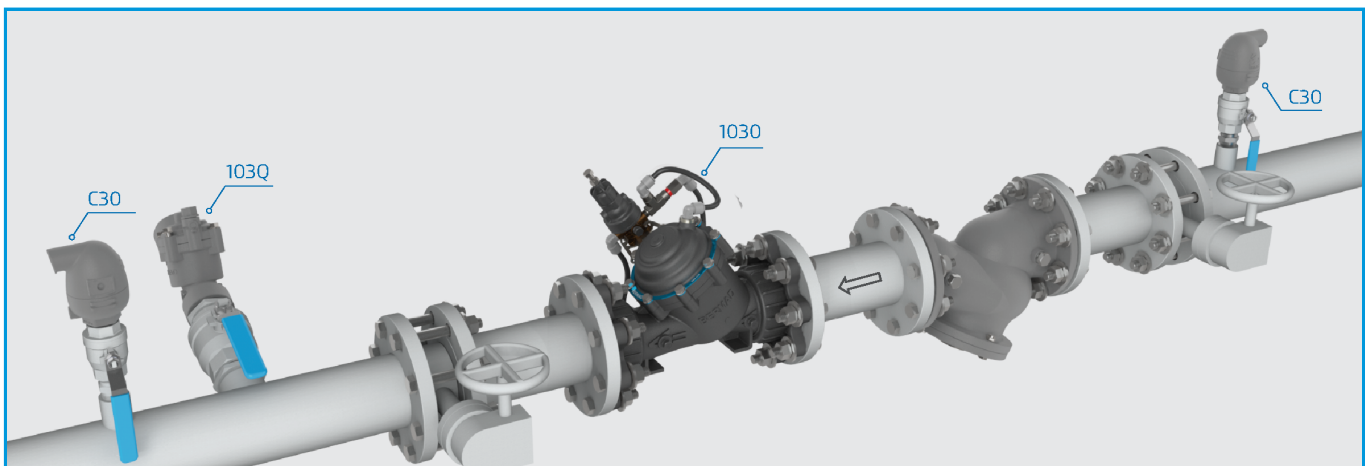
Features & Benefits

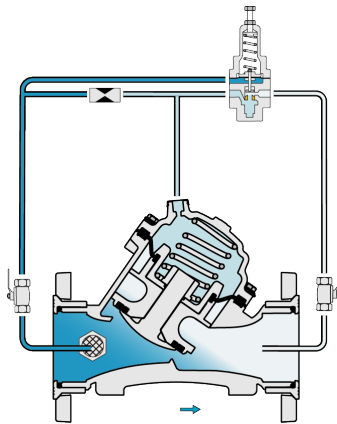
- Easy set-up
 - Super light weight
 - Line pressure driven - no external power needed
 - Easy pressure setting - in site or pre-ordered
 - Adaptable on-site to a wide range of end connection
- Simple and durable design
 - Excellent cavitation resistance
 - Highly durable construction & material - No rust
 - Unitized actuator unit - remove, replace, restore
 - 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 features

Typical Applications

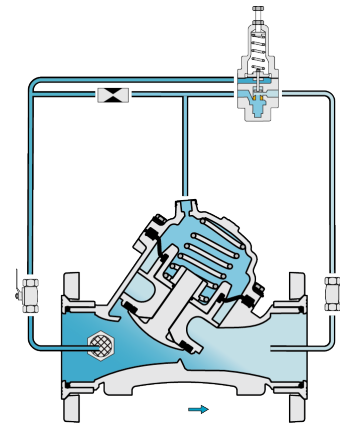
- Pumping stations - Pump circulation valve
- Pumping stations - Sustains pump discharge pressure, preventing pump overload and cavitation damage caused by excessive demand
- Water delivery system - Maintaining upstream pressure during pressure drop
- Water delivery system - Prioritizing upstream over downstream demand

Typical Installation





Pressure Relief



Pressure Sustaining

Main Valve

Size Range:

EN Series: 1½"-4"; DN40-100

ES Series: 2"-6"; DN50-150

Pattern: "Y" (globe)

Pressure Rating: 250 psi

End Connection: Threaded, Grooved, Flanged

Temperature Rating: For Cold Water Applications

Optional higher temperature: Consult BERMAD

Standard Materials:

Body & Cover: Reinforced Polyamide

Cover Bolts: Stainless Steel 304

Internals: Reinforced Polyamide

Diaphragm: EPDM

Spring: Stainless Steel

Seals: EPDM

Control System

Standard Materials:

Accessories: Stainless Steel / Bronze & Brass / Polyamide

Tubing: Stainless Steel or Polypropylene

Fittings: Stainless Steel or Acetal

Pilot standard materials:

Body: Stainless Steel, Bronze & Brass

Elastomers: Synthetic Rubber

Internals and Spring: Stainless Steel

Pilot Options:

Various pilots and calibration springs are available.

Select according to valve size and operating conditions.

For more details check relevant pilots product pages.

Notes

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

For detailed Engineering & Specification data, IOM and CAD Drawings, visit the Model Page on the [BERMAD](https://www.bermad.com) website.