



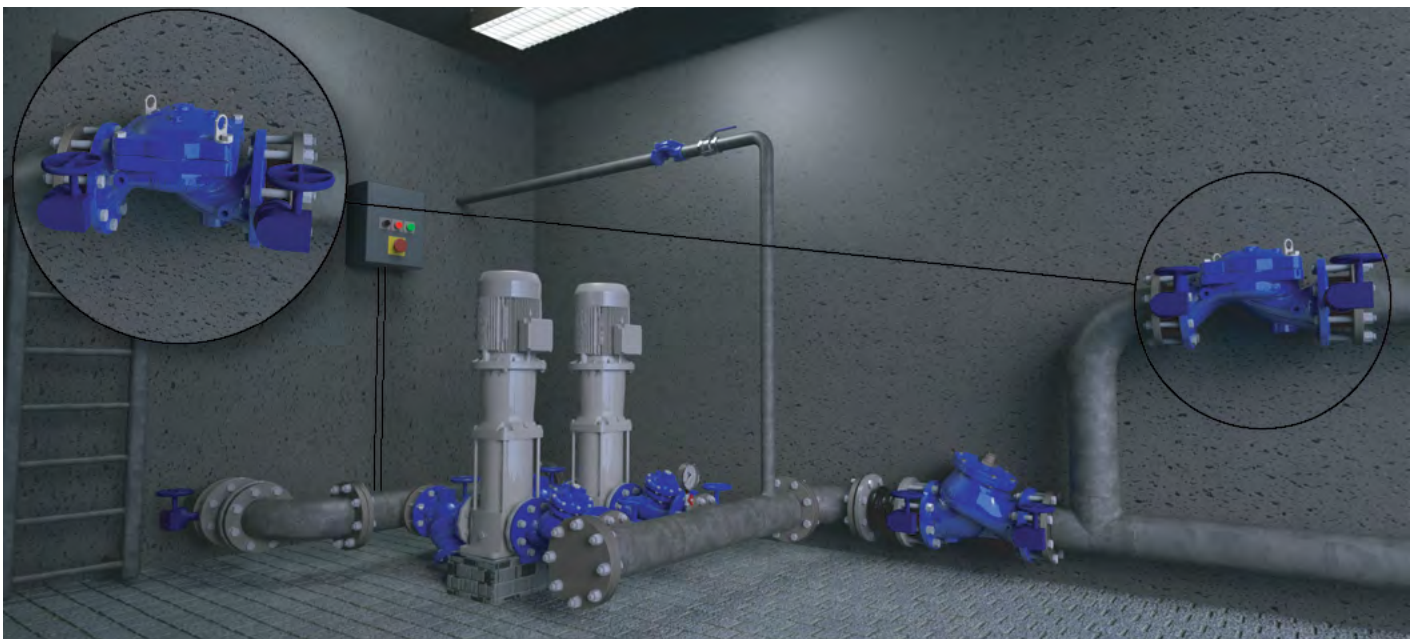
SOLENOID CONTROLLED VALVE

Model 410

Hydraulically operated, solenoid controlled valve that either opens fully or shuts off in response to an electric signal.

It is available in several models including Normally Open (NO), Normally Closed (NC) or Last Position (LP).

BERMAD 400 series valves are hydraulically operated, simple and reliable, globe valves with full bore hydrodynamic body providing an unobstructed flow path and superior performance. The valves balanced rolling-diaphragm assembly is vulcanized with a rugged radial seal disk construction, performing as the valves only moving part.



In buildings using an emergency reservoir and routine supply from water main the 410 can be used to block supply from the main and

allow the reservoir water to be supplied and refresh, thus preventing poor sanitary conditions in the reservoir.

Typical Application

- Saving energy while ensuring adequate refreshing of the building reservoir; switching between direct city supply and local pumping station, controlled by an external control regime
- Prioritizing pressurized lines users; disconnecting low priority users, triggered by external control system



Features and Benefits

- High quality construction materials ensure reliable, long lasting operation
- Full bore valve port area and hydrodynamic body ensure unobstructed flow path; minimal pressure loss with low cavitation damage
- Fully supported and balanced rolling diaphragm - low actuation pressure and excellent low flow regulation performance
- Ensured operation after long standby periods
- Straightforward three major components design - easy and simple on-site inline maintenance with minimal down time
- Line Pressure Driven - Independent operation, no external power needed aside of the solenoid low voltage control
- Electrical operation; low voltage and low current NO and NC solenoids
- 3-way solenoid control provides powered closing under low pressure conditions
- Integral manual ON/OFF/AUTO solenoid control

Technical Data

General:

End connections:

- Grooved: 2", 3"-8"
- Flanged: 1½"-14"
- Threaded: 1½"-3"

Pressure Rating: 250 psi; PN16

Valve Pattern: Globe / Angle

Working Temperature:

Cold Water up to 122°F; 50°C

Optional Higher Temperatures:

Available on request

Main Valve Materials:

Body, Cover and Partition:

- Standard: Ductile Iron
- Optional: Stainless Steel 316

Spring: Stainless Steel

Diaphragm Assembly:

- NR / EPDM with Reinforcing Vulcanized Radial Seal Disk:
- 1½"-6": Plastic
- 8"- 10": Iron
- 12"-14": Iron with St.St Upper Guide

Coating: Blue Fusion bonded epoxy

Control Trim Materials:

Control Accessories:

- Stainless Steel / Bronze & Brass
- NBR / EPDM

Tubing: Stainless Steel / Copper

Fittings: Stainless Steel / Brass

Solenoid:

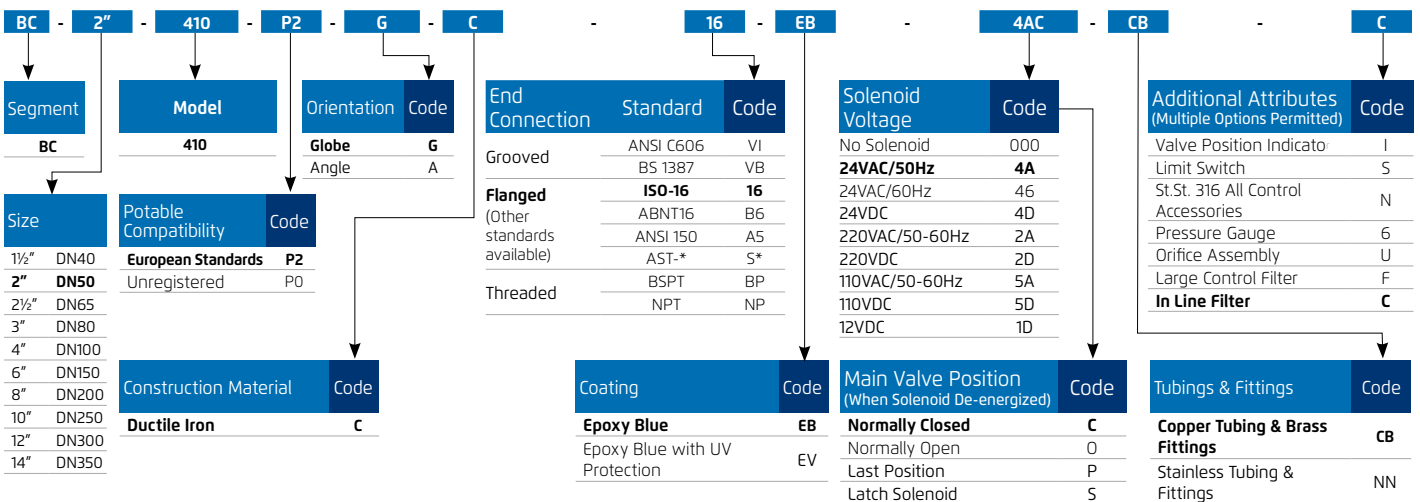
- Body:** Stainless Steel / Brass
- Elastomers:** Synthetic Rubber
- Enclosure:** Molded Epoxy

* For other optional material consult BERMAD.

** Materials may vary according to sanitary standard.

How To Order

Please Specify the requested valve in the following sequence:



Manufactured and Tested According to AWWA C530-12 Requirements