

# BOOSTER PUMP CONTROL VALVE QUICK ACTIVE CHECK VALVE

with Opening and Closing Speed Controls and  
Limit Switch

## Model 740-2S-03-S-M5-M5M-M5L

Double chambered, hydraulically operated, active check pump control valve that opens fully or shuts off in response to electric signals. The valve isolates the pump from the system during pump startup and shutdown, thereby preventing pipeline surges.

The BERMAD 700 Series large control valves are hydraulically operated and diaphragm actuated. Their unique hydro-dynamic globe design with an open plug ensures high flow capabilities.



### Features & Benefits

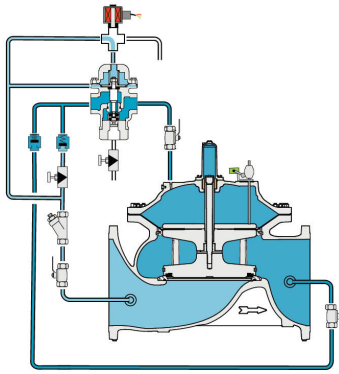
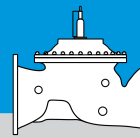
- Hydrodynamic wide globe valve body provides:
  - Higher flow coefficient (Kv; Cv) than standard globe valves
  - Higher resistance to cavitation damage
- In-line serviceable
- Valves are suitable for working with all types of command: Hydraulic, Electric and Pneumatic.
- Self-operated valves that can work without an external source of power
- Wide range of options and accessories:
  - Visual position indicator
  - Limit switches
  - Analog opening output
  - Large selection of control accessories
  - Large inspection and service ports (700-M5L)

### Typical Applications

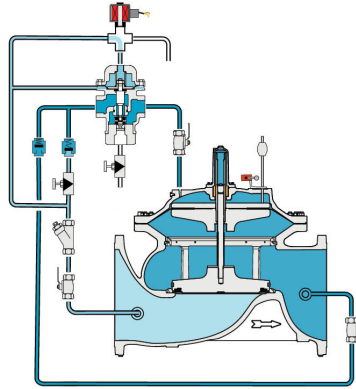
- Pumping stations - Controls pump start-up and shut-down

### Typical Installation

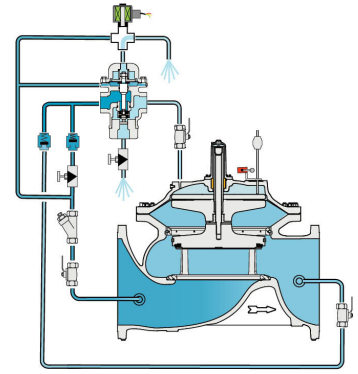




Closed



Reverse Flow



Open

## Main Valve

**Size Range:** 20"-36"; DN500-900

**Pattern:** Globe

**Pressure Rating:** 400 psi

**End Connection:** Flanged

**Temperature Rating:** 180°F

*For 140-180°F consult factory*

### Standard Materials:

**Body & Cover:** Ductile Iron

**Cover Bolts:** Stainless Steel

**Internals:** Epoxy coated Ductile Iron, Stainless Steel & Tin Bronze

**Diaphragm:** Fabric-reinforced synthetic rubber

**Seals:** Synthetic rubber

**Coating:** Dark blue Fusion bonded epoxy

*For other materials contact BERMAD*

## Control System

### Standard Materials:

**Accessories:** Stainless Steel, Bronze & Brass

**Tubing:** Stainless Steel or Copper

**Fittings:** Stainless Steel or Brass

### Solenoid standard materials:

**Body:** Brass or Stainless Steel

**Elastomers:** NBR or FPM

**Enclosure:** Molded Epoxy

### Solenoid Electrical Data:

#### Voltages:

**(AC):** 24, 110-120, 220-240, (50-60Hz)

**(DC):** 12, 24, 110, 220

#### Power Consumption:

**(AC):** 30VA, inrush; 15VA (8W), holding or 70VA, inrush; 40VA (17.1W), holding

**(DC):** 8-11.6W

Values may vary according to specific solenoid model.

For more details check solenoid product page.

### Limit Switch:

**Switch Type:** SPDT

**Electrical Rating:** 10A, type gl or gG

**Operating Temperature:** Up to 85°C (185°F)

**Enclosure Rating:** IP66

## Notes

- Recommended maximum flow velocity: 6.0 m/sec; 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.