

LEVEL CONTROL AND PRESSURE SUSTAINING VALVE

with Bi-Level Vertical Float

Model 753-66-M5/M5L/M6

Hydraulically operated, level control and pressure sustaining control valve that controls reservoir filling and reservoir level. During filling the valve sustains minimum upstream pressure regardless of fluctuating flow or reservoir level. Reservoir filling is in response to a hydraulically controlled non-modulating bi-level vertical float that opens at a pre-set reservoir low level and shuts off drip-tight at a pre-set high level.

The BERMAD 700 Series large size control valves are hydraulically operated, diaphragm actuated type. Unique hydro-dynamic globe valve design with a special open plug provides high flow capabilities. The valves are available in the standard configuration or with an Independent Check Feature code "2S".



[Click here for control accessories](#)



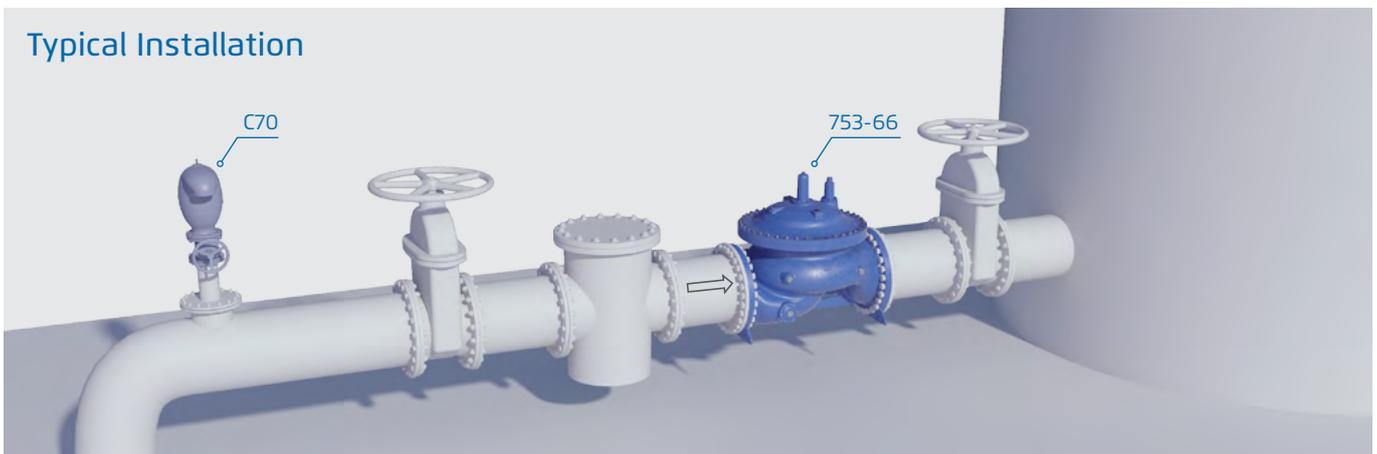
Features and Benefits

- Hydrodynamic wide globe valve body provides:
 - Higher flow (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:
 - One-way or two-way flow direction
 - V-Port
 - Cavitation cage
 - Visual position indicator
 - Limit switches
 - Analog opening output
 - Large selection of control accessories
 - Double chamber actuation (700-M6)
 - Large inspection and service ports (700-M5L)

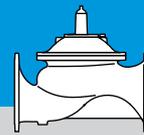
Major Additional Features

- Level control – 750-66-M5/M5L/M6
 - Flow control – 757-66-U-M5/M5L/M6
 - Electric float backup – 753-66-65
 - Closing surge prevention – 753-66-49-M5/M5L/M6
 - Relief override – 753-66-3Q-M5/M5L/M6
 - Independent Check Feature – 753-66-2S-M5/M5L/M6
- See relevant BERMAD publication

Typical Installation



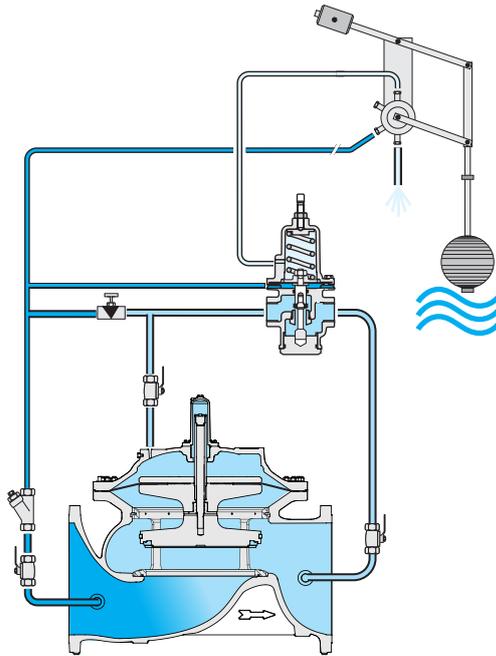
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Model 753-66-M5/M5L/M6

CLOSED

Regulating



Main Valve

Valve Pattern: Globe

Size Range: DN 500-1200; 20"-48"

Pressure Rating: 40 bar; 600 psi

End Connections: Flanged

Temperature Rating: 60°C; 140°F for Cold water applications.

Optional higher temperature: Available on request

Coating: Dark blue Fusion bonded epoxy

Control System

Standard Materials:

Accessories: Stainless Steel, Bronze & Brass

Tubing: Stainless Steel or Copper

Fittings: Stainless Steel or Brass

Pilot standard materials:

Body: Stainless Steel, Bronze or Brass

Elastomers: Synthetic rubber

Spring: Stainless Steel

Internals: Stainless Steel

Float Pilot Standard Materials:

Body: Brass or Stainless Steel 316

Elastomers: Synthetic Rubber

Internal Parts: Stainless Steel 316 & Brass

Lever System: Brass or Stainless Steel 316

Float: Plastic

Float Rod: Stainless Steel

Base Plate: Fusion Bonded Epoxy Coated Steel or Stainless Steel 316

Notes

- Minimum level differential: 150 mm; 6".
- Maximum level differential: 560 mm; 21".
- Each extension rod adds 650 mm; 22". One extension rod is supplied.
- Extra counterweight is required if second extension rod is used.
- If inlet pressure is below 0.5bar/7psi or above 10bar/150psi, consult factory. See BERMAD float installation recommendation
- Inlet Pressure, Outlet Pressure and Flow-rate are required for optimal sizing.
- 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.
- See BERMAD float installation recommendation.

