

LEVEL CONTROL AND PRESSURE SUSTAINING VALVE

with Modulating Vertical Float

Model 753-67 EN/ES

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 modulating vertical float that maintains a constant water level, regardless of fluctuating demand.

BERMAD 700 SIGMA EN/ES series valves are hydraulic, oblique pattern, globe valves with a raised seat assembly and double chamber unitized actuator, that can be disassembled from the body as a separate integral unit. The valves hydrodynamic body is designed for unobstructed flow path and provides excellent and highly effective modulation capacity for high differential pressure applications. The valves are available in the standard configuration or with an Independent Check Feature code "2S". The 700 SIGMA EN/ES Valves operate under difficult operation conditions with minimal cavitation and noise. They meet size and dimensions requirements of various standards.



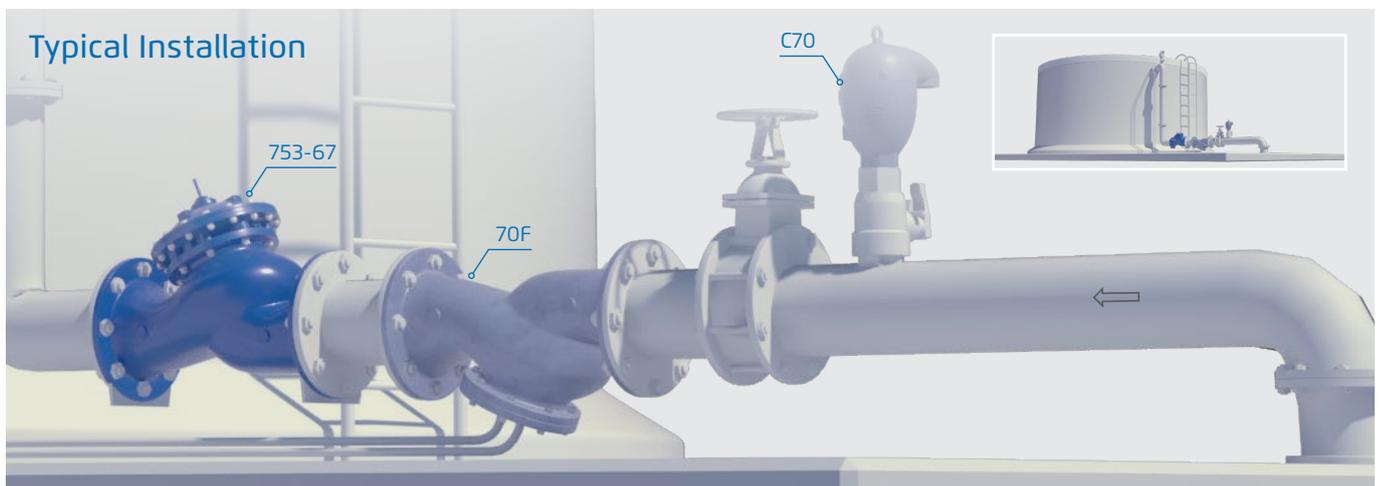
Features and Benefits

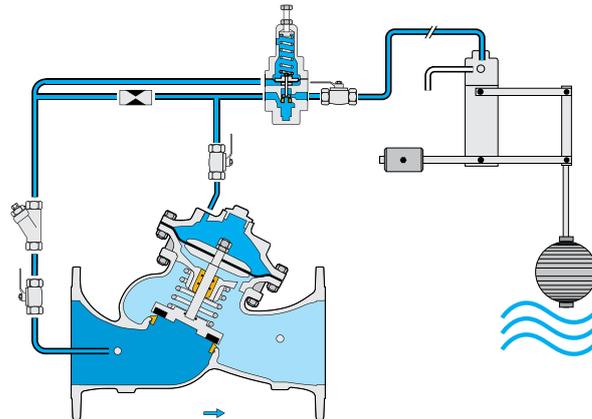
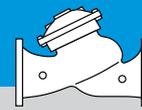
- Designed to - stand up to the toughest conditions
 - Excellent anti-cavitation properties
 - Wide flow range
 - High stability and accuracy
 - Drip tight sealing
- Double chamber design
 - Moderated valve reaction
 - Protected diaphragm
 - Optional operation in very low pressure
 - Moderated closing curve
- Flexible design - Easy addition of features
- Obstacle free flow pass

- V-Port Throttling Plug (Optional) - Very stable at low flow
- Compatible with various standards
- High quality materials
- In-line serviceable - Easy maintenance

Major Additional Features

- Electric float backup – 753-67-65
 - Relief override – 753-67-3Q
 - Independent Check Feature - 753-67-2S
- See relevant BERMAD publication





This drawing refers to 1½ – 8"; 40-200 mm sized valves only. For other sizes please refer to the Model's IOM.

Main Valve

Valve Patterns: "Y" (Globe)

Size Range:

EN Series: 1½-16"; 40-400 mm

ES Series: 2½-24"; 65-600 mm

Pressure Rating: 25 bar; 400 psi

End Connections: Flanged (all standard)

Plug Types: Flat disc, V-port, Cavitation cage

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

Optional higher temperature: Available on request

Standard Materials:

Body & actuator: Ductile Iron

Bolts, nuts & studs: Stainless Steel

Internals: Stainless Steel, Tin Bronze & Coated Steel

Diaphragm: Fabric-reinforced synthetic rubber

Seals: Synthetic rubber

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

- Each extension rod adds 560 mm; 22". One extension rod is supplied
- Extra counterweight is required if second extension rod is used
- If inlet pressure is below 0.5 bar /7psi or above 10 bar /150 psi, consult factory.
- Inlet Pressure, Outlet Pressure and Flow-rate are required for optimal sizing
- Recommended maximum flow velocity: 6.0 m/sec; 20 ft/sec
- See BERMAD float installation recommendation

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