LEVEL CONTROL AND PRESSURE SUSTAINING VALVE

With 3-Way Altitude Pilot

Model 753-80 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.

The valve shuts off at a pre-set reservoir high level and fully opens in response to an approximately one meter (3 ft) level drop, as sensed by the 3-Way altitude pilot mounted on the main valve.

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 "25". 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.



Click here for control accessories



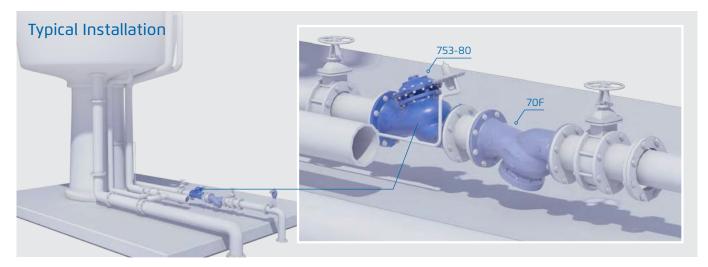
Features and Benefits

- 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

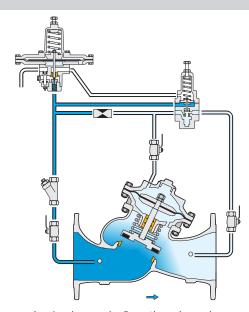
- Modulating altitude control 753-82
- Flow control 757-80-XU
- Bi-directional flow 753-87-X
- Closing surge prevention 753-80-49-X
- Bi-level altitude control 753-86
- Independent Check Feature 753-80-2S See relevant BERMAD publication



All images in this catalog are for illustration only







This drawing refers to $1\frac{1}{2} - 8$ "; 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 & Cover: Brass or Stainless Steel

Elastomers: Synthetic Rubber

Spring: Stainless Steel or Galvanized Steel

Internal Parts: Stainless Steel
Diaphragm Covers: Fusion bonded
Epoxy Coated Steel or Stainless Steel

Altitude Adjustment Range:

Code	Meter	Feet
M1	2-6	7-20
M6	2-14	7-46
M5	5-22	17-72
M4	15-35	49-115
M8	25-70	82-230

Notes

- Shut-off level repeatability: 100 mm; 4"
- Re-opening level: approx. 1m; 3ft below shut-off level.
- 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.

