

Pressure Sustaining Valve In-Line Valve

Model MN-730

Hydraulically operated, pressure sustaining control valve that sustains a minimum, pre-set upstream (back) pressure, regardless of fluctuating flow or varying downstream pressure.

Bermad 700 Series valves are hydraulic, pilot operated, oblique pattern, globe valves with a seat assembly and double chamber unitized actuator that can be disassembled from the body as a separate integral unit.

The valve's hydrodynamic body is designed for unobstructed flow path and provides excellent and highly effective modulation capacity for high differential pressure applications.

The 700 Series operate under difficult operating conditions with minimal cavitation and noise. They are made of the highest quality materials suitable for different mining applications.



Features and Benefits

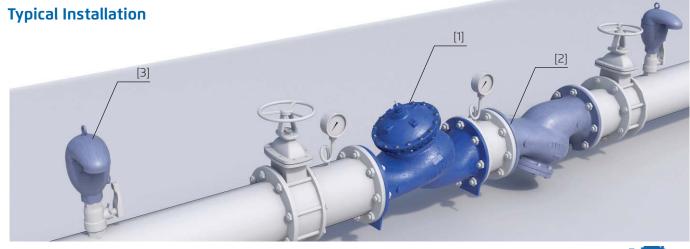
- Designed to stand up to the toughest conditions
 - Tamper resistant
 - Excellent anti-cavitation properties
 - High stability and accuracy
 - Drip tight sealing
- Double chamber actuator design
 - Protected diaphragm
 - Provide rapid response to sudden changes in system conditions
 - Simplified maintenance as it can be removed as a single unit. In-line serviceable
- Flexible design Easy addition of features
- Optional V-Port Throttling Plug Allows for low flow stability
- Obstacle free flow path

Major Additional Features

- 3 Way control 730 X
- Hydraulic check valve 730 20
- ON/OFF Solenoid Control 730 55
- Electrically selected multi-level setting 730 45
- High sensitivity pilot 730 12
- Pressure reducing & sustaining valve 723 See relevant BERMAD publications

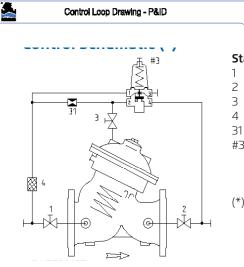
List of Components:

- [1] Pressure Sustaining Valve 730 [2] Strainer 70F
- [3] Combination Air Valve C70









Standard Configuration

- 2W Isolation Valve
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- Control Filter
- 1 Restriction Orifice
- #3 2W Pressure Sustaining Pilot

Additional features (OPTIONAL)

- V V-Port Plug
- F Large Control Filter
- F1 Extra Large Control Filter
- 6 Pressure Gauge
- I Visual Position Indicator
- S Electric Limit Switch
- Q Position Transmitter 4-20 mA
- U Orifice Plate

(*) As a reference only. Components may vary based on valve's size and class.



ble pressure sustaining pilot, ould be set to the minimum

the pilot setting, the pilot ol chamber to accumulate; closed, sustaining upstream

- Should the upstream pressure be below the pilot setting, the pilot closes, causing main valve to close drip tight.
- Should the upstream pressure tend to rise above the pilot setting, the pilot releases accumulated pressure, and the main valve modulates open.

Pilot Options

Various pilots and calibration springs are available. Select according to valve size and operation conditions. For more details check pressure sustaining pilots product page

Adjustment Ranges	PSI	Bar
	11-150	0.7-10
	15-230	1-16
	30-430	2-30



Pressure Rating

 Class 150
 Class 300

 Max. Recommended Pressure
 250 PSI
 400 PSI

 Available End Connection
 Flanged ANSI#150
 Grooved ANSI/AWWA C606
 Threaded

Materials

Components		Water Applications	Thermal Shock Applications	Base Solutions Applications	Acid Solutions Applications (**)
Main Valve	Body & Cover	Ductile Iron	Carbon Steel	Ductile Iron	Stainless Steel 316
	Internals	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel 316
		Brass/Coated Steel	Brass/Coated Steel	Coated Steel	
	Elastomers	Synthetic rubber	Synthetic rubber	Synthetic rubber	Viton
	Coating	Fusion Bonded Epoxy	Fusion Bonded Epoxy	Fusion Bonded Epoxy	Uncoated
Pilot	Body	Brass/Bronze	Brass/Bronze	Stainless Steel 316	Stainless Steel 316
	Internals	Stainless Steel	Stainless Steel	Chainless Chaol 21C	Stainless Steel 316
		Brass	Brass	Stainless Steel 316	
	Elastomers	Synthetic rubber	Synthetic rubber	Synthetic rubber	Viton
Control Loop Accessories	Accessories	Brass/Bronze	Stainless Steel 316	Stainless Steel 316	Stainless Steel 316
	Tubing & Fittings	Brass	Stainless Steel 316	Stainless Steel 316	Stainless Steel 316

(**) For highly aggressive acid solutions: Super Duplex, Hastelloy C-276, SMO-254 6-MO. Others by request.

Notes:

- Inlet pressure, outlet pressure and flow rate are required for optimal sizing and cavitation analysis.
- Recommended average flow velocity: 0.1-3.5m/sec; 0.3-11ft/sec. Intermittent flow velocity: 7.5m/sec-23ft/sec
- Minimum operating pressure: 0.7 bar / 10 PSI. For lower pressure requirements consult factory.



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