Actuated Heavy Duty Valves

Series III-L

Features

- Original Shear-Seal® technology
- 2 & 3 position valve
- 2 position actuated valve
- Manual override
- Air or hydraulic integrated actuator
- Superior shifting performance
- High flow with low pressure drop
- Rugged integrated solution
- Extended shaft for alternate position sensor
- Robust detent stop
- Position indication option
- Suitable for hydraulic & water glycol media



Applications

- Land-based oil drilling controls
- BOP accumulator units
- Test systems
- Workover rigs
- Mobile drilling rigs

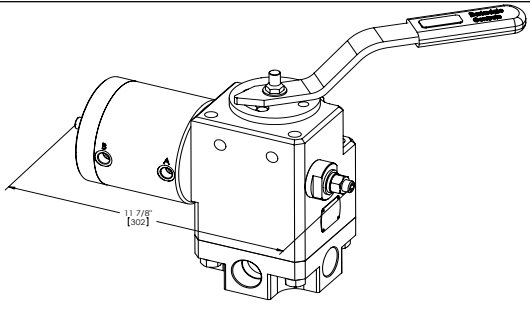
General Specifications*

Main Valve

Media Type:	Hydraulic oil or water based with stainless steel body
Working Pressure: 1" Size:	Hydraulic up to 3,000 or 5,000 psi (206 bar or 345 bar)
Back Pressure:	250 psi (17.2 bar) max at return port
Proof Pressure:	1.5x working pressure except at return port
Burst Pressure:	2x working pressure except at return port [3,000 psi (206 bar)]
Porting:	1" NPT standard
Media Temperature Range:	-30° to +185°F (-34.4° to +85°C)
Handle Detent:	All valves have 3-position detents for manual shift to center position
Wetted Materials: Body: Shaft: Rotor & Seals: Standard O-Rings:	 Phosphate coated carbon steel or stainless steel option Stainless steel 400 series stainless steel Buna N Option: Viton®, Neoprene, EPR
External Materials: Housing: Hardware: Handle & Detent Disc:	 Phosphate coated carbon steel Plated carbon steel Plated carbon steel
Flow Characteristics:	Cv Factor = 9.2 Capacity : 75 GPM @ 60ft/sec

Pilot Actuator

Working Pressure: Air: Hydraulic:	 Range: 80 to 120 psi (5.5 to 8.3 bar) Range: 200 to 1,000 psi (13.8 to 68.9 bar)
Porting:	1/4"- 18 NPT
Media Temperature Range:	-30° to +185°F (-34.4° to +85°C)
Speed of Operation:	1/2 second or more for 90° throw to avoid damage (Restrict actuator flow to control speed)
Materials: Cylinder (Air/Hydraulic): End Plate: Hardware:	 Hard anodized aluminum Anodized aluminum Plated carbon steel
Weight: (Valve & actuator)	 48 lbs (21.8 kg) : pneumatic model 49 lbs (22.2 kg) : hydraulic model



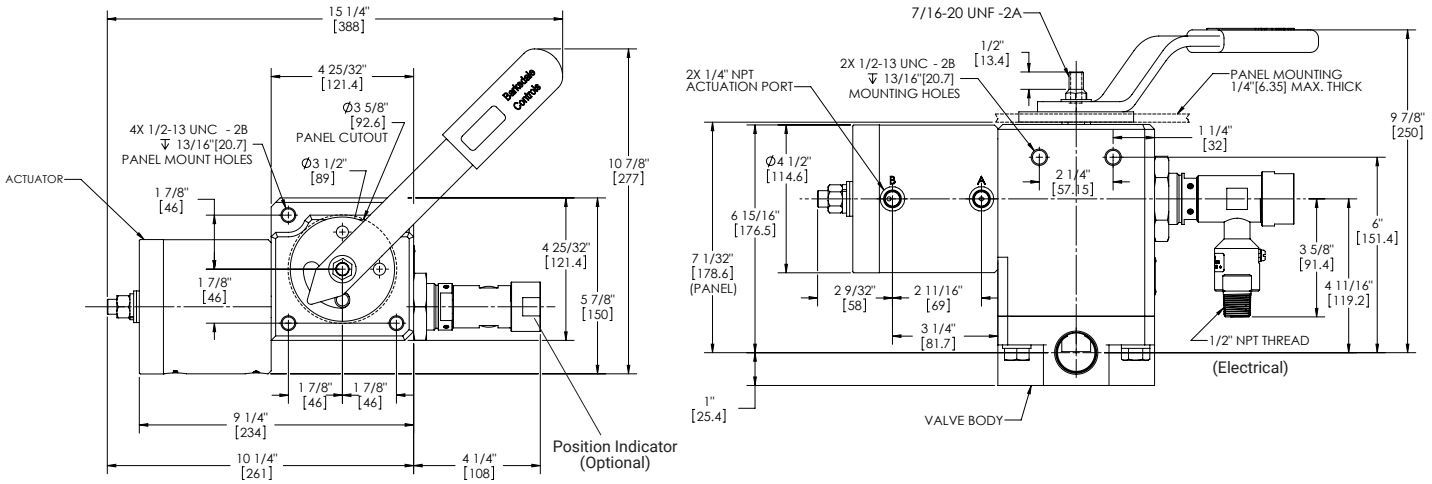
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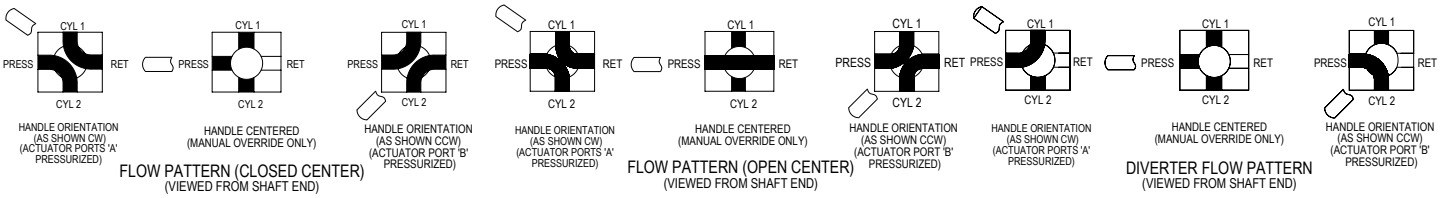
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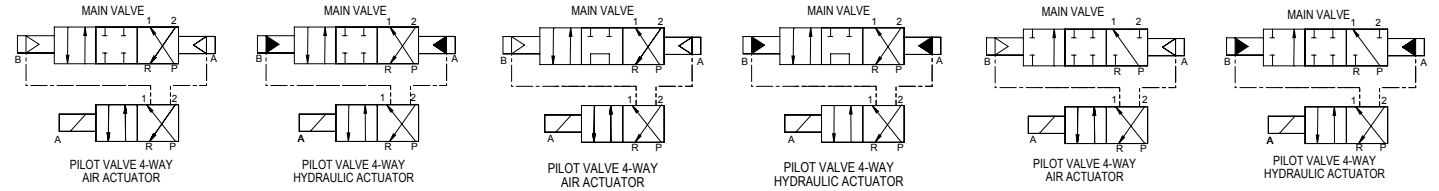
Technical Drawings

Dimensions in inches [mm]

2-Position Valve with Manual Override (Shown with Position Indicator Option)







Product Configurator

Example:	L	A	14	5	R	3	H	C	2		

Series III Land

Actuation Type

A	Air actuated cylinder
H	Hydraulic actuated cylinder

Valve Series

14	4-way selector or diverter

Port Size

5	1" NPT (SAE Option)

Port Location

R	Regular side porting

3	3,000 psi (206 bar)
5	5,000 psi (345 bar)

Working Media

H	Hydraulic oil
W	Lubricated water (with stainless steel body)

Flow Pattern

C	Closed center (selector)
O	Open center (tandem center) selector

Seal Material Options

Blank	Buna N (Standard)
-Z12	Neoprene
-Z13	Viton®
-Z15	EPR

Options

-B[1]	Position indicator[1]
-US	Approved countries material origin
-SS	Stainless steel body

Position

2	2-position actuator, 90° rotation

Note: 1. Refer to Position Indicator Model 371MT7 datasheet