

# Valves

## 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
- ▶ Panel mounting option
- ▶ 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

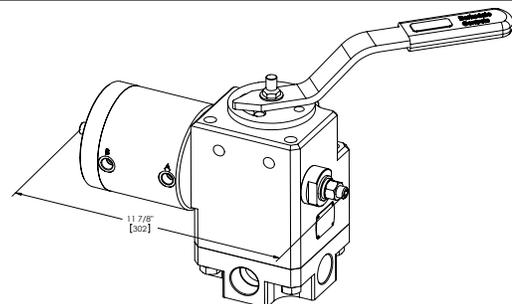
<b>Media Type:</b>	Hydraulic oil or water based with stainless steel body
<b>Working Pressure:</b> 1" Size:	Hydraulic up to 3,000 or 5,000 psi (206 bar or 345 bar)
<b>Back Pressure:</b>	250 psi (17.2 bar) max at return port
<b>Proof Pressure:</b>	1.5x working pressure except at return port
<b>Burst Pressure:</b>	2x working pressure except at return port [3,000 psi (206 bar)]
<b>Porting:</b>	1" NPT standard Optional: SAE 16 (SAE J1926)
<b>Media Temperature Range:</b>	-30° to +185°F (-34.4° to +85°C)
<b>Handle Detent:</b>	All valves have 3-position detents for manual shift to center position
<b>Wetted Materials:</b> 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
<b>External Materials:</b> Housing: Hardware: Handle & Detent Disc:	Phosphate coated carbon steel Plated carbon steel Plated carbon steel
<b>Flow Characteristics:</b>	Cv Factor = 9.2 Capacity : 75 GPM @ 60ft/sec

Patent# US D686.298 S



#### Pilot Actuator

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



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\* See product configurator for additional options.

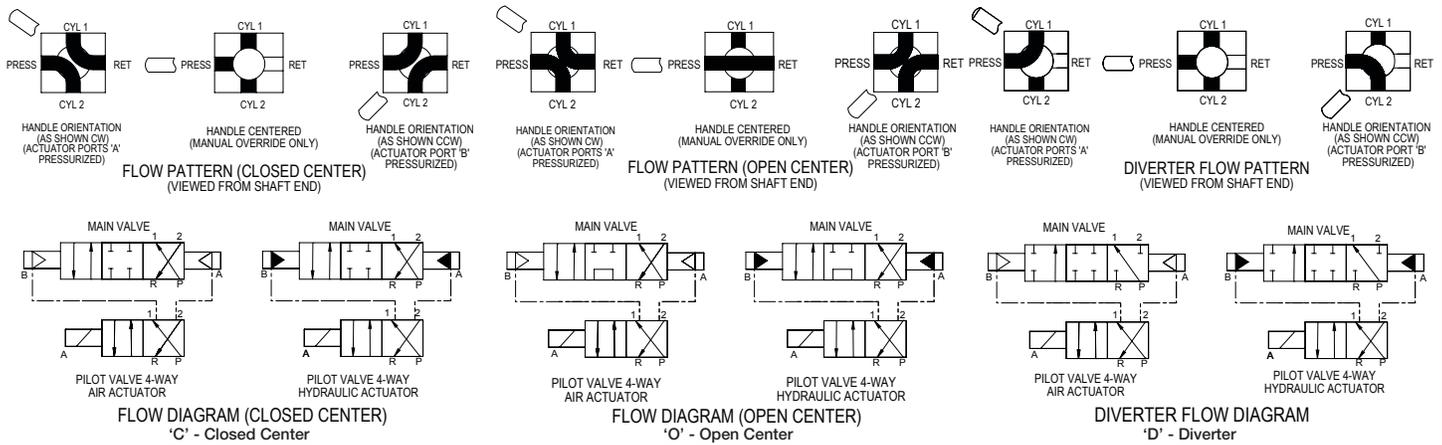
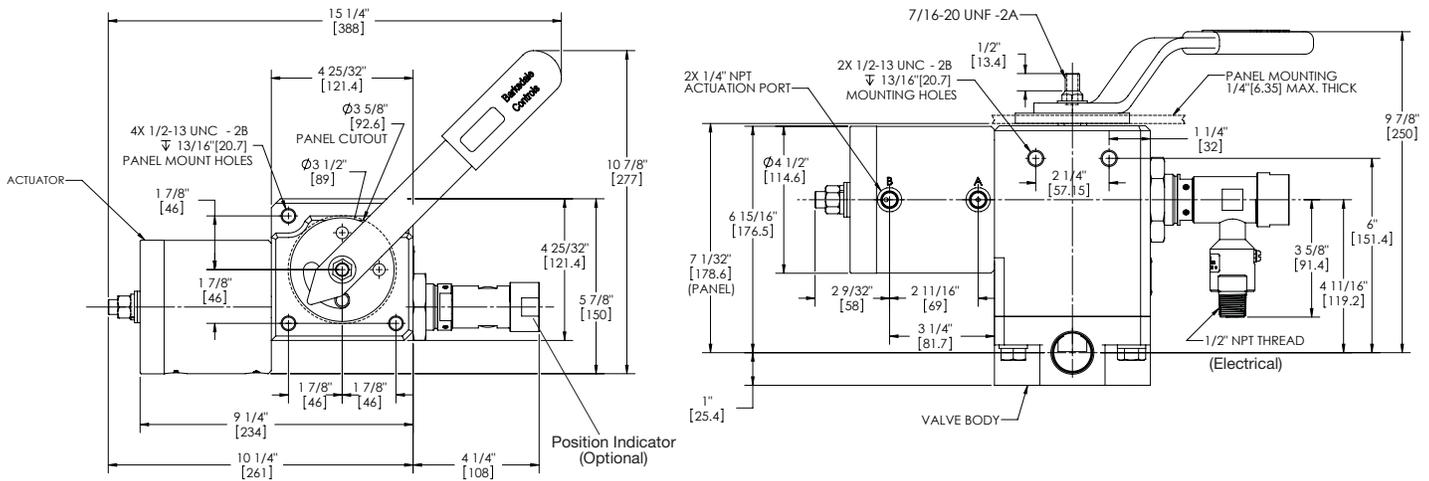
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### Technical Drawings

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

Dimensions in inches [mm]



### Product Configurator

Example: **L A 14 5 R 3 H C 2**

### Seal Material Options

#### 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
- P Panel mount

#### Pressure Range

- 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
- D Diverter (bypass)

### Options

- B' Position indicator<sup>1</sup>
- MS SAE J1926 porting
- US Approved countries material origin
- G 1/4" SAE gauge ports for CYL 1 & 2
- Z28<sup>2</sup> Stainless steel body

### Position

- 2 2-position actuator, 90° rotation

Note: 1. Refer to Position Indicator Model 371MT7 datasheet  
2. Stainless steel body is coated with baked enamel paint