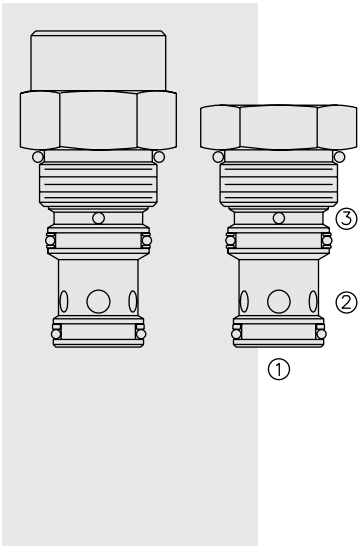


## EP16-S35 Piloted Spool-Type Logic Element



### DESCRIPTION

A spool-type, screw-in, cartridge-style, hydraulic directional element, with multi-function potential when used with other directional, pressure, or flow control devices.

### OPERATION

The **EP16-S35** is a spring-biased blocking valve which will shift to allow full flow from ① to ② only when pressure at ① exceeds the cumulative pressure of ③, plus the bias spring pressure value.

EP16-S35 is a pilot-to-close directional valve.

With no pressure at ③, flow will be allowed from ① to ② once the bias spring force is overcome with pressure at ①.

### FEATURES

- Multiple function/application potential.
- Low pressure drop.
- Industry common cavity.

### RATINGS

**Operating Pressure:** 240 bar (3500 psi)

**Proof Pressure:** 420 bar (6090 psi)

**Flow:** See Performance Chart

**Internal Leakage:** 164 cc/minute (10 cu. in./minute) max. at 207 bar (3000 psi)

**Temperature:** -40 to 120°C with standard Buna seals

**Filtration:** See page 9.010.1

**Fluids:** Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

**Installation:** No restrictions; See page 9.020.1

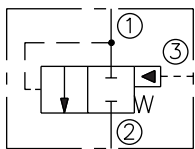
**Cavity:** VC16-S3; See page 9.116.1

**Cavity Tool:** CT16-S3xx; See page 8.600.1

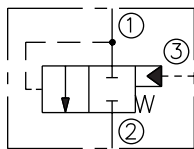
**Seal Kit:** SK16-S3x-MM; See page 8.650.1

### SYMBOLS

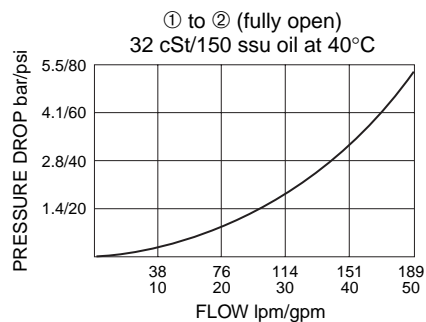
#### USASI:



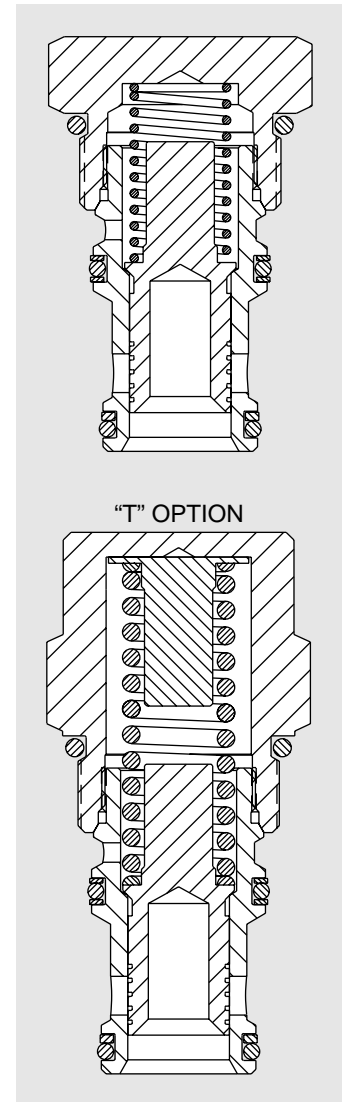
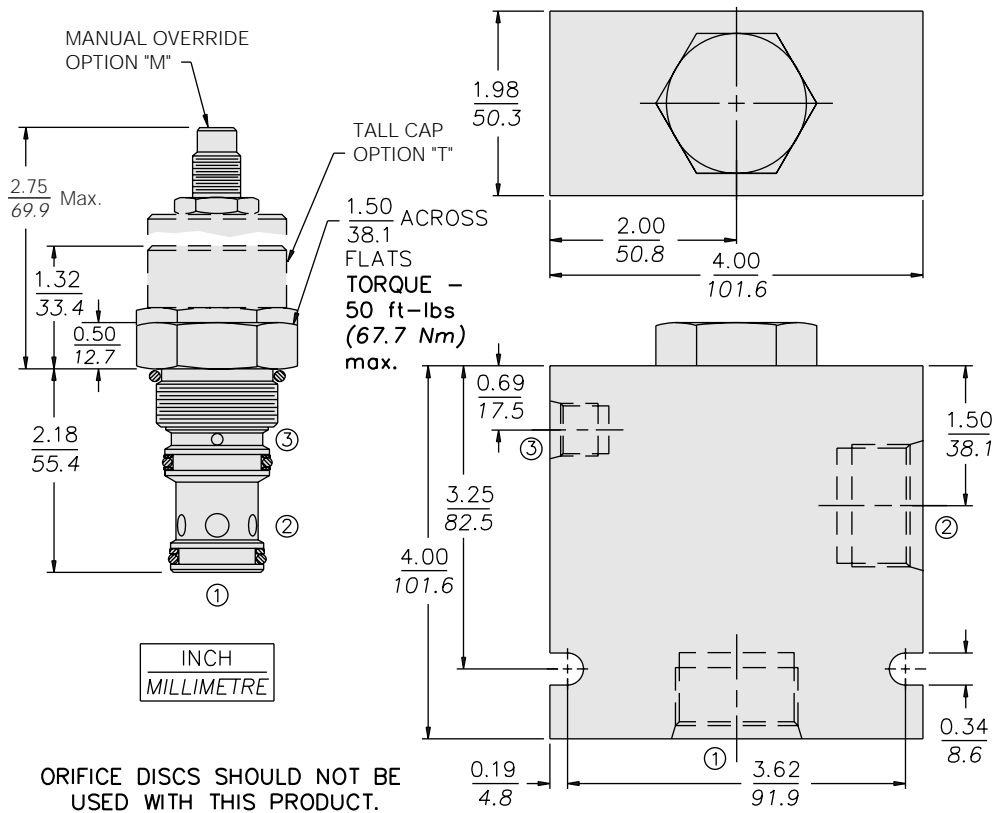
#### ISO:



### PERFORMANCE (Cartridge Only)



**DIMENSIONS**



**MATERIALS**

**Cartridge:** Weight: 0.27 kg. (0.60 lbs.)  
Steel with hardened work surfaces.  
Zinc-plated exposed surfaces.  
Buna N O-rings and polyester elastomer back-ups standard.

**Standard Ported Body:** Weight: 1.50 kg. (3.3 lbs.) Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.016.1.

**TO ORDER**

<b>EP16-S35</b> -		-	-	-
<b>Option</b>				<b>Bias Spring</b>
None (Blank)				<b>10</b> 0.7 bar (10 psi)
Tall Cap <b>T</b>				<b>20</b> 1.4 bar (20 psi)
Manual Override <b>M</b>				<b>40</b> 2.8 bar (40 psi)
				<b>70</b> 4.8 bar (70 psi)
				<b>*90</b> 6.2 bar (90 psi)
				<b>*110</b> 7.6 bar (110 psi)
				<b>*160</b> 11.0 bar (160 psi)
				<b>*240</b> 16.5 bar (240 psi)
				‡ T Option Required
				<b>Seals</b>
				<b>N</b> Buna N (Std.)
				<b>V</b> Fluorocarbon
	<b>Porting</b>			
	Cartridge Only <b>0</b>			
	SAE 16 w/SAE 6 Pilot Port <b>16T</b>			