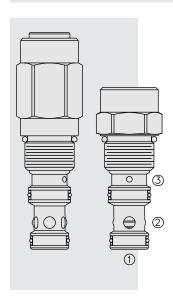
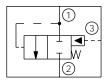
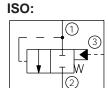
# EP12-S35 Piloted Spool-Type Logic Element



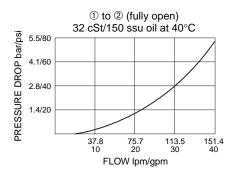
# **SYMBOLS**

# **USASI:**





#### PERFORMANCE (Cartridge Only)



#### **DESCRIPTION**

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

#### **OPERATION**

**The EP12-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.

EP10-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.
- Manual override option available with 80 psi spring only.

#### RATINGS

Operating Pressure: 350 bar (5000 psi) cartridge; 207 bar (3000 psi) standard

aluminum housing

Flow: See Performance Chart

Internal Leakage: 131 cc/minute (8 cu. in./minute) max. at 350 bar (5000 psi)

**Bias Spring Pressure Options:** 

0.7 bar (10 psi) 5.5 bar (80 psi) 7.0 bar (100 psi)

11.0 bar (160 psi) Tall Cap option required 16.5 bar (240 psi) Tall Cap option required

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

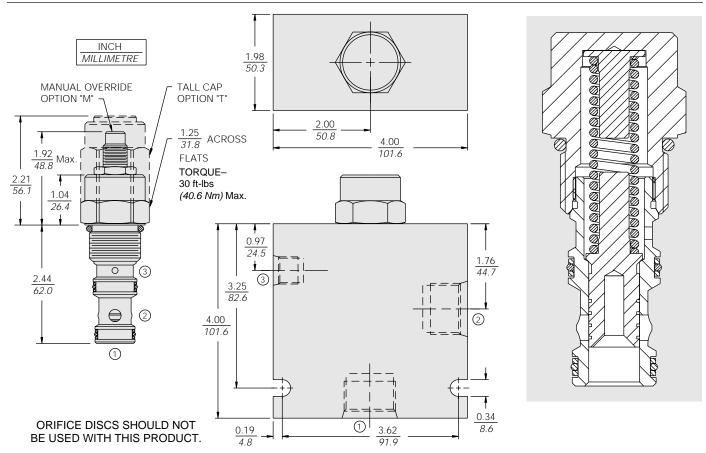
Installation: No restrictions; See page 9.020.1

Cavity: VC12-S3; See page 9.112.1 Cavity Tool: CT12-S3xx; See page 8.600.1 Seal Kit: SK12-S3x-MM; See page 8.650.1



# EP12-S35

# **DIMENSIONS**



# **MATERIALS**

Cartridge: Weight: 0.23 kg. (0.5 lbs.)
Steel with hardened work surfaces.
Zinc-plated exposed surfaces.
Buna N O-rings and polyester
elastomer back-ups standard.

Standard Ported Body: Weight: 1.13 kg. (2.5 lbs.) Anodized highstrength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.012.1.

### **TO ORDER**

