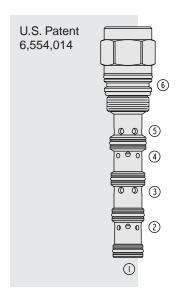
# PE16-S67H Proportional, Pilot Operated



#### **DESCRIPTION**

A screw-in, cartridge-style, proportional, spring-centered, pilot-operated spool-type hydraulic directional valve.

#### **OPERATION**

When the **PE16-S67H** is in neutral position port ③ is blocked and ports ②, ④ and ⑤ are in communication with each other. When the remote pilot signal at ① exceeds the force of the bias spring, the spool shifts proportionally to the applied pilot pressure to allow flow from ③ to ④, through a load such as a hydraulic cylinder or motor, and from ② to ⑤ and to tank. On remote pilot signal at ⑥, the spool shifts proportionally to the applied pressure in the opposite direction, thus reversing the flow direction. **The valve's spool is symmetrical, providing meter-in and meter-out control.** 

#### **FEATURES**

- · Hardened spool and cage for long life.
- · Cost-effective cavity.
- · Excellent metering characteristics.
- Good linearity.

#### **RATINGS**

Maximum Operating Pressure: Port 3: 345 bar (5000 psi)

Ports ② and ④: 240 bar (3500 psi) Ports ① and ⑥: 27.6 bar (400 psi)

Orifice Diameter: Between ports 2 and 4 and port 5 in neutral position: 0.030 in.

Flow: See Performance Chart

Internal Leakage: 590 ml/minute (36 cu. in./minute) at 207 bar (3000 psi)

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

Filtration: See page 9.010.1

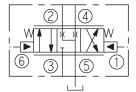
**Fluids:** Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

Installation: No restrictions; See page 9.020.1

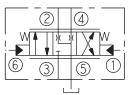
Cavity: VC16-S6; See page 9.116.1 Cavity Tool: CT16-S6; See page 8.600.1 Seal Kit: SK16-S6P-BMMMM; See page 8.650.1

#### **SYMBOLS**

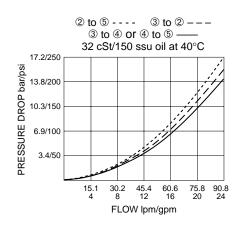
#### **USASI:**

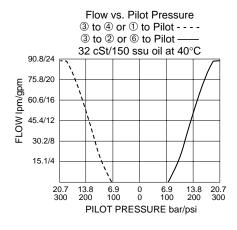


#### ISO:



## PERFORMANCE (Cartridge Only)



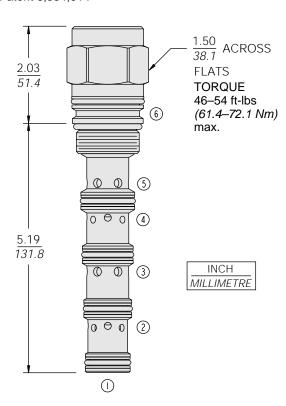




# PE16-S67H

## **DIMENSIONS**

U.S. Patent 6,554,014



### **MATERIALS**

Cartridge: Weight: 0.76 kg. (1.68 lbs.) Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-ups standard.

Test Body: Consult Factory

### **TO ORDER**

