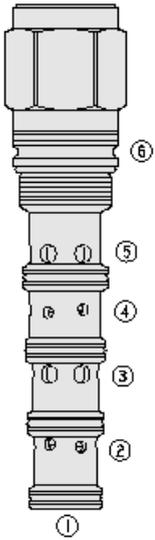




## Overview



### Description

The PE42-S67H is a screw-in, cartridge style, proportional, spring centered spool, pilot operated hydraulic directional valve.

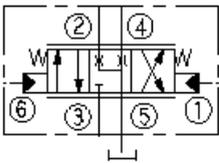
### Operation

In neutral position inlet port 3 is blocked and ports 2, 4 and 5 are communicating with each other. On remote pilot signal at port 1 the valve's spool shifts proportionally to the applied pilot pressure to allow flow from port 3 to port 4, thru a load, such as hydraulic cylinder or motor, and then from port 2 to port 5 and to tank. On remote pilot signal at port 6 the valve's spool shifts proportionally to the applied pressure in opposite direction thus reversing the flow direction. The valve's spool is symmetrical providing only meter-in control.

### Features

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

### Symbol



## Ratings

### Pressure Ratings

Pressure rating	345 bar (5000 psi)	- <b>Note:</b> For port 3
	241 bar (3500 psi)	- <b>Note:</b> For ports 2 and 4
	27.6 bar (400 psi)	- <b>Note:</b> For ports 1 and 6
Note	Polyurethane seals are recommended for 345 bar (5000 psi) inlet pressure operation. Available aluminum bodies for this product are rated 241 bar (3500 psi)	

### Flow Ratings

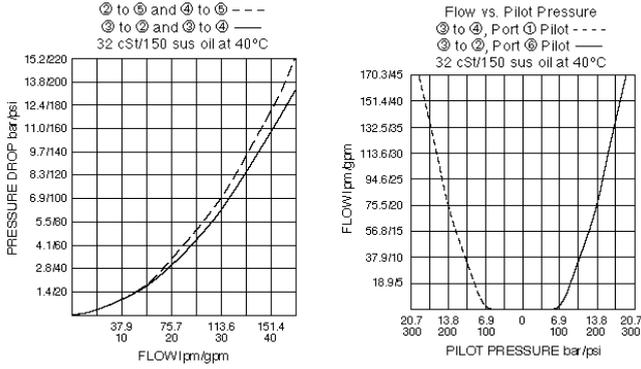
Maximum internal leakage	1180 ml/min (72 in <sup>3</sup> /min)	- <b>Note:</b> At 207 bar (3000 psi)
Note	Orifice diameter between ports 2 and 4 and port 5 in neutral position 76 mm (0.030 in)	

## Properties

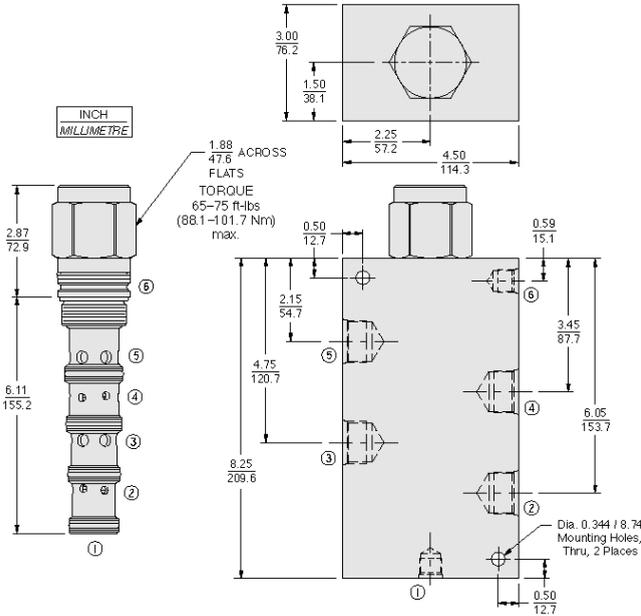
Displacement per stroke	2.46 cm <sup>3</sup> (0.15 in <sup>3</sup> )	- <b>Note:</b> per stroke direction
Materials	Steel with work surfaces hardened, external surfaces are zinc plated buna N o-rings are standard	
Unit weight	0.76 kg (1.68 lb)	



## Performance



## Dimensions



## Installation Specifications

Cavity	VC42-S6
Cartridge installation torque	88.1 to 101.7 N-m (65 to 75 ft-lb)

## Accessories

Seal kit	SK42-S6N-BMMMM	- <b>Note:</b> Buna N
	SK42-S6V-BMMMM	- <b>Note:</b> Viton
	SK42-S6P-BMMMM	- <b>Note:</b> Polyurethane



**Order Code**

PE42-S67H - -

- Porting**
- Cartridge Only **0**
  - SAE 12 **12TD**
  - SAE 16 **16TD**
  - SAE 20 **20TD**
  - <sup>3</sup>/<sub>4</sub> in. BSP **6BD**
  - <sup>1</sup>/<sub>2</sub> in. BSP **8BD**
  - <sup>1</sup>/<sub>4</sub> in. BSP **10BD**
- \*BSP Body; U.K. Mfr. Only

- Seals**
- N** Buna N (Std.)
  - P** Polyurethane (Required for pressures over 240 bar/3500 psi)
  - V** Fluorocarbon

**Model Options**

**PE42-S67H-H-J**

**H Line Body**

CODE	DESCRIPTION
0	No Body
20TD	Ductile Iron SAE 20

**J Seal**

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
P	Polyurethane
U	PPDI Urethane