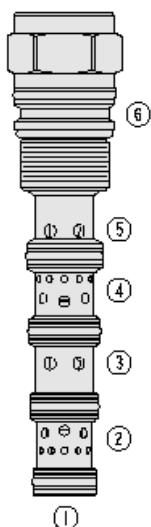




Overview



Description

The PE12-S67K is a screw-in, cartridge-style, proportional, spring centered spool, pilot operated hydraulic directional valve.

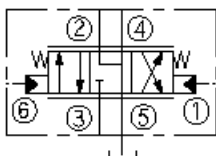
Operation

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 non-symmetrical providing meter-in control.

Features

- Hardened spool and cage for long life.
- Excellent metering characteristics.
- Good Linearity.

Symbol



Ratings

Pressure Ratings

Pressure rating	345 bar (5000 psi)	- Note: Port 3
	241 bar (3500 psi)	- Note: Ports 2, 4
	27.6 bar (400 psi)	- Note: Ports 1, 6

Flow Ratings

Flow rating	45.4 lpm (12 gpm)	
Maximum internal leakage	164 ml/min (10 in ³ /min)	- Note: At 207 bar (3000 psi)

Temperature Ratings

Operating fluid temperature	-40 to 100 °C (-40 to 212 °F)	- Note: With buna N seals
	-26 to 204 °C (-15 to 400 °F)	- Note: With fluorocarbon seals
	-54 to 107 °C (-65 to 225 °F)	- Note: With polyurethane seals
Storage temperature	-40 to 70 °C (-40 to 160 °F)	
Ambient temperature	-40 to 90 °C (-40 to 194 °F)	

Operating Parameters

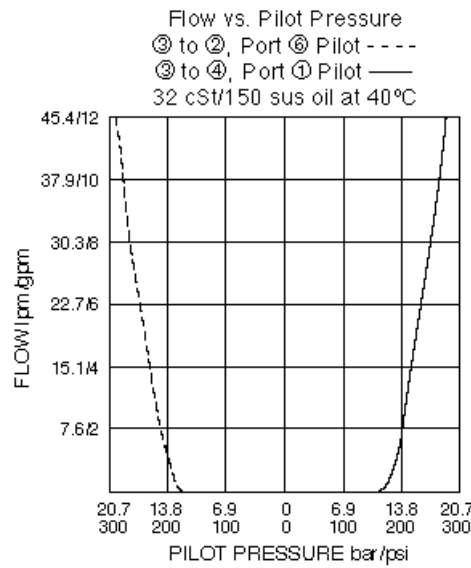
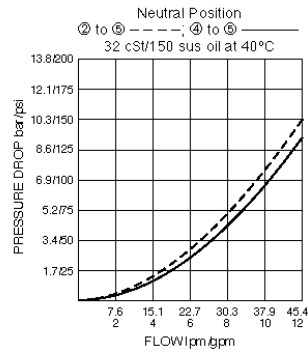
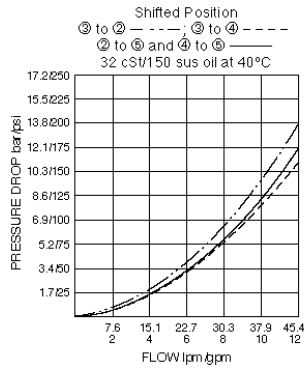
Fluids	Mineral based or synthetic hydraulic fluid with lubricating properties	
Fluid viscosity range	7.4 to 420 cSt	
Maximum operating contamination level	18/16/13 per ISO 4406	

Properties

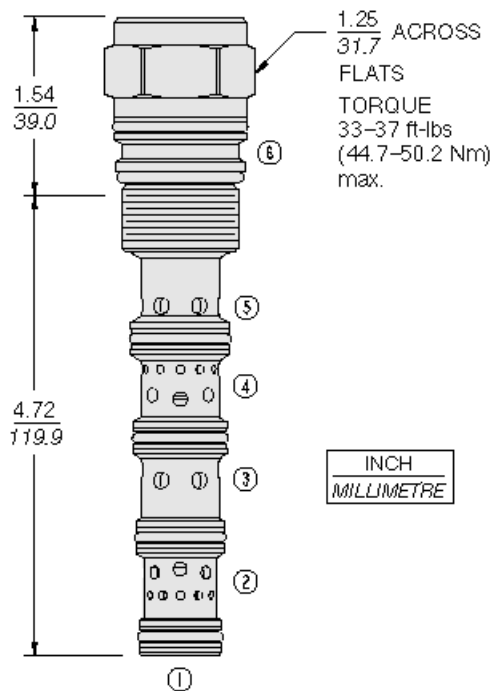
Displacement per stroke	0.65 cm ³ (0.039 in ³)	- Note: per stroke direction
Unit weight	0.45 kg (0.98 lb)	
Internal wetted surface area	414 cm ² (64.2 in ²)	



Performance



Dimensions



Installation Specifications

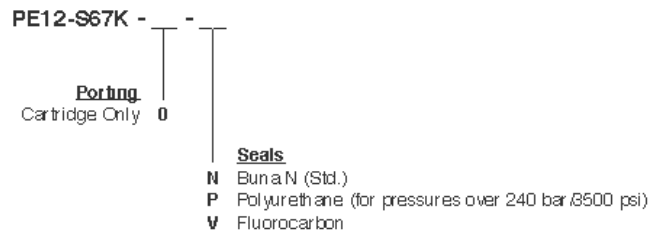
Cavity	VC12-S6
Cartridge installation torque	44.7 to 50.2 N-m (33 to 37 ft-lb)
Maximum allowable torque	67.8 N-m (50 ft-lb)
Orientation restriction	None

Accessories

Seal kit	SK12-S6X-BMMMM	- Note: X = seal option
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Order Code



Model Options

PE12-S67K-H-J

H Line Body

CODE	DESCRIPTION
0	No Body

J Seal

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