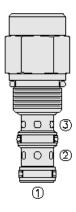


Overview



Description

The PD10-35 is a screw-in, cartridge style, pilot-operated, spool type, normally open, hydraulic directional valve.

Operation

In neutral position the valve allows flow from port 2 to 3. The spring chamber is vented to port 3. On remote pilot signal at port 1, the valve's spool shifts to block flow from port 2 to 3. Pressure on port 3 will directly (1:1) affect the pilot pressure required and must be added to the bias spring value.

Features

- External vent-to-atmosphere.
- Range of bias springs available.

• Industry common cavity.

- Sealed spool option for bias spring options 110, 130 and 170.
- Hardened spool and cage for long life.

Symbol



Ratings

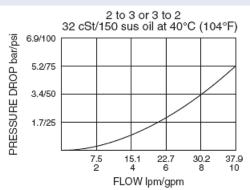
<u>Pressure Ratings</u>	
Pressure rating	241 bar (3500 psi)
Temperature Ratings	
Operating fluid temperature	-40 to 120 °C (-40 to 248 °F)
Flow Ratings	
Maximum internal leakage	82 ml/min (5 in³/min) - Note: From port 1 to 2 and from port 2 to 3 (when piloted), at 207 bar (3000 psi) 0 lpm (0 gpm) - Note: From port 1 to 2 with sealed spool

Properties

Materials steel Unit weight 0.15

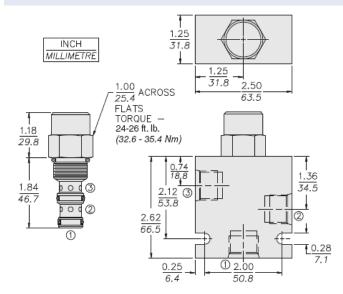
steel with work surfaces hardened. External surfaces are zinc plated 0.15 kg (0.34 lb)

Performance





Dimensions



Installation Specifications

Cavity	
Cartridge installation torque	

VC10-3 32.6 to 35.4 N-m (24 to 26 ft-lb)

Accessories

Seal kit

SK10-3N-MM	- Note: Buna N
SK10-3V-MM	- Note: Viton
SK10-3P-MM	- Note: Polyurethane



Order Code

PD10-35			
Porting Cartridge Only SAE 6 SAE 8 1/4 in. BSP* 3/8 in. BSP* "BSP Body U.K. Mfr. Only	0 6T 8T 2B 3B	Bias Spring [†] 40 2.8 bar (40 psi) 60 4.1 bar (60 psi) 110 7.6 bar (110 psi) 130 9.0 bar (130 psi) 170 11.7 bar (170 psi) tNote: 110 psi blas spring is the minimum required for use with sealed spool.	
	N	Seals N Buna N (Std.) IS* Buna N with Sealed Spool V Fluorocarbon 'S* Fluorocarbon with Sealed Spiol P Polyurethane	ool

P Polyurethane

VS* Polyurethane with Sealed Spool Note: 110 psi blas spring is the minimum required for use with sealed spool.

Model Options

PD10-35-H-J-R

H Line Body

CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
8T	Aluminum SAE 8
6TD	Ductile Iron SAE 6
8TD	Ductile Iron SAE 8
3B	Aluminum BSPP 3/8" (3)
3BD	Ductile Iron BSPP 3/8" (3)

J Seal

CODEDESCRIPTIONNBuna-N

NS	Buna-N with a Sealed Spool	

- V Fluorocarbon
- VS Fluorocarbon with a Sealed Spool
- P Polyurethane
- PS Polyurethane with a Sealed Spool
- U PPDI Urethane
- US PPDI Urethane with a Sealed Spool

R Spring

CODE	DESCRIPTION
40	40 psi Bias Spring
60	60 psi Bias Spring
110	110 psi Bias Spring
130	130 psi Bias Spring
170	170 psi Bias Spring