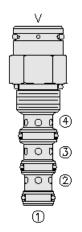


Overview



Description

The pd10-40xx is a screw-in, cartridge style, pilot-operated, spool type, hydraulic directional valve.

Operation

In neutral position the valve allows flow from port 3 to 2 bidirectionally, while port 4 is blocked. The spring chamber is vented to atmosphere "v" which is internally o-ring sealed from the cartridge flow paths. On remote pilot signal at port 1, the valve's spool shifts to open port 3 to 4 while port 2 is blocked. Because of the vented spring chamber, the cartridge may be fully pressurized at any port without affecting required pilot pressure.

Features

- Hardened spool and cage for long life.
- Industry common cavity.

Symbol



Ratings

Pressure Ratings

Pressure rating 241 bar (3500 psi)

Flow Ratings

Flow rating - Note: See performance graph

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

-26 to 204 °C (-15 to 400 °F)
-54 to 107 °C (-65 to 225 °F)

- Note: With fluorocarbon seals
- Note: With polyurethane and urethane

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

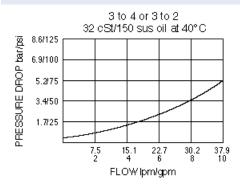
Maximum operating contamination 18/16/13 per ISO 4406

level

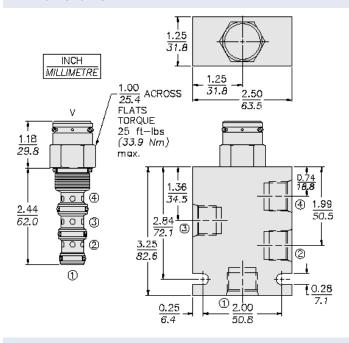
Properties

Unit weight 0.20 kg (0.43 lb) - Note: Standard - Note: Tall cap lnternal wetted surface area 189 cm² (29.3 in²) 225 cm² (34.9 in²) - Note: (tall cap)

Performance



Dimensions



Installation Specifications

Cavity VC10-4

Cartridge installation torque 32.6 to 35.4 N-m (24 to 26 ft-lb)

Orientation restriction None

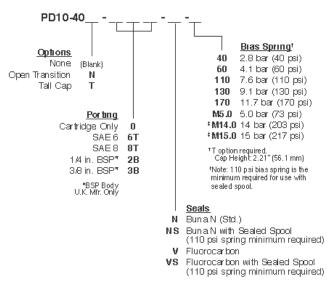
Accessories

Seal kit SK10-4N-MMM; SK10-4V-MMM; - Note: Buna N

SK10-4P-MMM; SK10-4U-000 - Note: Polyurethane

Order Code





Model Options

PD10-40BC-H-J-R

B Spool Option

CODE	DESCRIPTION
BLANK	Standard
N	Normally Open in Transition

C Tall Cap

CODE	DESCRIPTION
BLANK	Standard Cap
Т	Tall Cap

H Line Body

CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
8T	Aluminum SAE 8
6TD	Ductile Iron SAE 6

J Seal

CODE	DESCRIPTION
N	Buna-N
NS	Buna-N with a Sealed Spool
V	Fluorocarbon
VS	Fluorocarbon with a Sealed Spool
Р	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



CODE	DESCRIPTION
M5.0	5 bar Bias Spring
110	110 psi Bias Spring
130	130 psi Bias Spring
170	170 psi Bias Spring
200	200 psi Bias Spring
M14.0	14 bar Bias Spring
M15.0	15 bar Bias Spring