**Description** 

**Operation** 

**Features** 

directional valve.

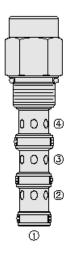
to the bias spring value.

• Cost-effective cavity.

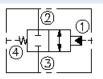
• Hardened spool and cage for long life.



## **Overview**



### Symbol



## Ratings

Pressure Ratings	
Pressure rating	241 bar (3500 psi)
<u>Temperature Ratings</u>	
Operating fluid temperature	-40 to 120 °C (-40 to 248 °F)
<u>Flow Ratings</u>	
Maximum internal leakage	245 ml/min (15 in³/min) - Note: At 207 bar (3000 psi) 0 lpm (0 gpm) - Note: From port 1 and 2 with sealed spool
Properties	

The PD12-44 is a screw-in, cartridge style, pilot-operated, spool type, hydraulic

is vented to port 4 which is internally o-ring sealed from the cartridge flow paths.

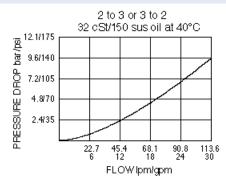
In neutral position the valve blocks flow from port 2 to 3. On remote pilot signal at port 1, the valve's spool shifts to allow flow from port 2 to 3 bidirectionally. The spring chamber

Pressure on port 4 will directly (1:1) affect the pilot pressure required and must be added

### F

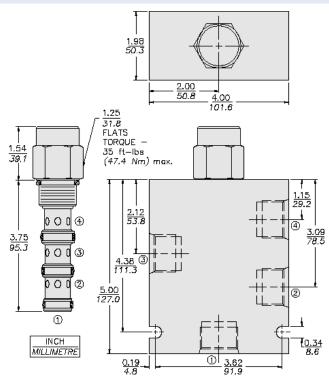
Materials	steel with work surfaces hardened. External surfaces are zinc plated
Unit weight	0.28 kg (0.61 lb)

### Performance





## Dimensions



## **Installation Specifications**

Cavity Cartridge installation torque VC12-4 44.7 to 50.2 N-m (33 to 37 ft-lb)

#### Accessories

Seal kit

SK12-4N-MMM	- Note: Buna N
SK12-4V-MMM	- Note: Viton
SK12-4P-MMM	- Note: Polyurethane



# Order Code

PD12-44 -	
Porting	
Cartridge Only	0
SAE 10	10T
SAE 12	12T

Bias Spring 110 7.6 bar (110 psi) 170 11.7 bar (170 psi) Optional bias springs considered on OEM request.

Seals

N BunaN (Std.)

NS BunaN with Sealed Spool V Fluorocarbon

VS Fluorocarbon with Selaled Spool

#### Model Options

#### PD12-44-H-J-R

#### H Line Body

CODE	DESCRIPTION
0	No Body
10T	Aluminum SAE 10
12T	Aluminum SAE 12
12TD	Ductile Iron SAE 12

#### 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
110	110 psi Bias Spring
170	170 psi Bias Spring