affecting required pilot pressure.

**Description** 

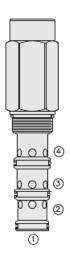
**Operation** 

**Features** 

cavity.



## Overview



### Symbol



# Ratings

Pressure Ratings	
Pressure rating	345 bar (5000 psi)
Flow Ratings	
Flow rating	265 lpm (70 gpm)
Maximum internal leakage	245 ml/min (15 in³/min) • Note: At 345 bar (5000 psi) 0 lpm (0 gpm) • Note: From port 1 and 2 with sealed spool
<u>Temperature Ratings</u>	
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 and urethaneseals
Storage temperature	-40 to 70 °C (-40 to 160 °F)
Ambient temperature	-40 to 90 °C (-40 to 194 °F)

Screw-in, cartridge-style, pilot-operated, spool-type, hydraulic directional valve for three-

In neutral (unpiloted) position the PD42-M40X allows flow passage from port 3 to port 2

atmosphere, which is internally o-ring sealed from the cartridge flow paths. On remote pilot signal at port 1, the valve shifts to open port 3 to port 4, while blocking port 2. The vented aping chamber allows PD42-M40X to be fully pressurized at any port without

• Hardened spool and cage for long life. Optional sealed pilot Industry-common ISO

bidirectionally, while flow is blocked at port 4. "v" is a spring chamber vent-to-

way circuits requiring remote hydraulic pilot actuation.

### **Operating Parameters**

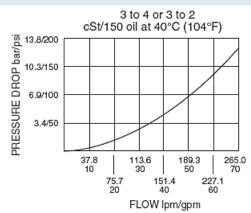
Fluids	Mineral based or synthetic hydraulic fluid with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination	1 20/18/14 per ISO 4406
level	

### **Properties**

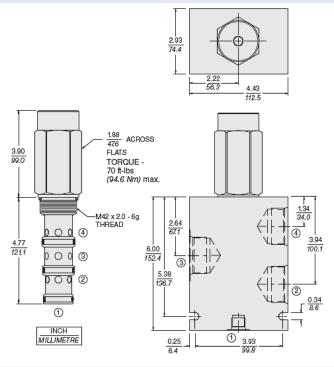
Unit weight	1.8 kg (4.0 lb)
Internal wetted surface area	817 cm <sup>2</sup> (126.7 in <sup>2</sup> )



## Performance



## Dimensions



# **Installation Specifications**

Cavity
Cartridge installation torque
Orientation restriction

VC42-M4 89 to 102 N-m (65 to 75 ft-Ib) None

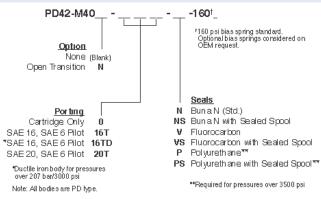
## Accessories

Seal kit

SK42-4N-MMM	- Note: Buna N
SK42-4V-MMM	- Note: Fluorocarbon
SK42-4P-MMM	- Note: Polyurethane
SK42-4U-000	- Note: Urethane



## Order Code



#### Model Options

#### PD42-M40B-H-J-R

#### **B** Spool Option

•	•	
CODE	DESCRIPTION	
BLANK	Standard	
N	Normally Open in Transition	
H Line Body		
CODE	DESCRIPTION	

CODE	DESCRIPTION
0	No Body
16T	Aluminum SAE 16
20T	Aluminum SAE 20

#### J Seal

CODE DESCRIPTION

- N
   Buna-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

|--|

160	160 psi Bias Spring
-----	------------------------