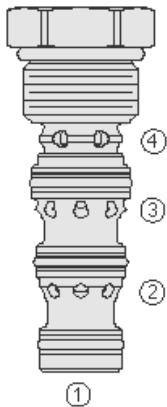




Overview



Description

The DC10-40X is a cartridge style, dual pilot operated check valve for use in blocking or load holding circuits with general purpose hydraulic fluids.

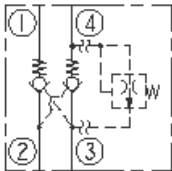
Operation

The valve has option of thermal relief from port 4 to 3.

Features

- Hardened seat for long life and low leakage.
- Low pressure drop.
- Optional thermal relief.

Symbol



Ratings

Pressure Ratings

Pressure rating	241 bar (3500 psi)
Thermal relief crack pressure	310 to 386 bar (4500 to 5600 psi)
Pilot ratio	3:1

Flow Ratings

Flow rating	45.4 lpm (12 gpm) 60.6 lpm (16 gpm)	- Note: Maximum
Maximum internal leakage	0.25 ml/min (5 drops/min) 0.25 ml/min (5 drops/min) crack pressure)	- Note: Check valve leakage (at 207 bar (3000 psi)) - Note: Thermal relief leakage (at up to 85% of crack pressure)

Temperature Ratings

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

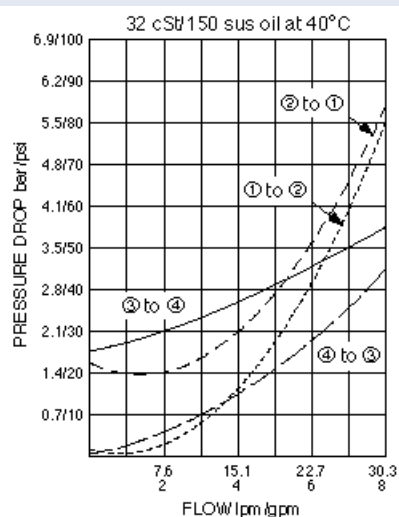
Other Ratings

Corrosion protection	Gdc10-40x - 960 hour salt spray per ASTM b117
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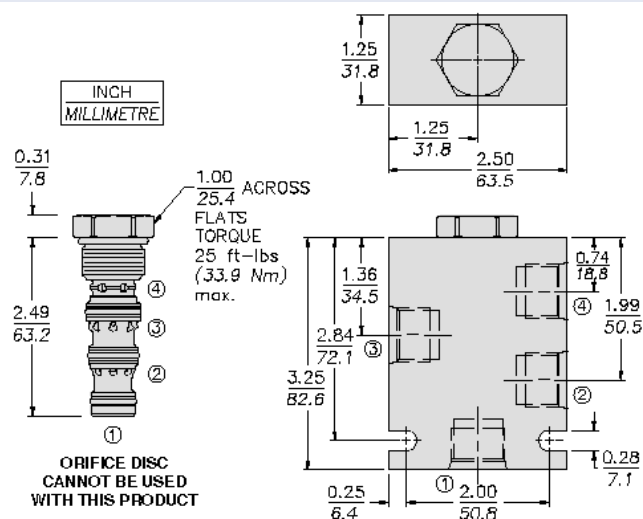
Properties

Unit weight	0.14 kg (0.30 lb)
Internal wetted surface area	174 cm ² (27 in ²)

Performance



Dimensions



Installation Specifications

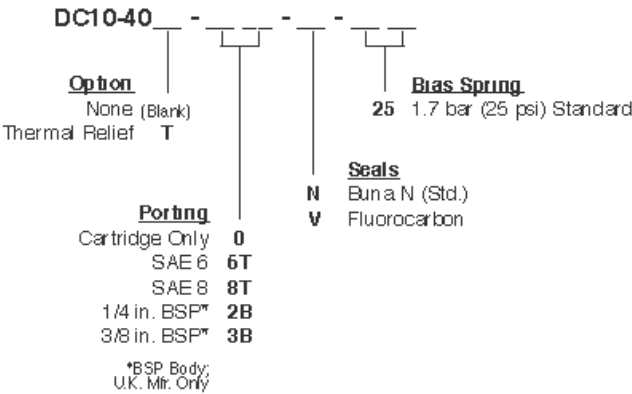
Cavity	VC10-4
Cartridge installation torque	32.6 to 35.4 N-m (24 to 26 ft-lb)
Orientation restriction	None

Accessories

Seal kit	SK10-4N-MMM	- Note: Buna N
	SK10-4V-MMM	- Note: Fluorocarbon
	SK10-4P-MMM	- Note: Polyurethane



Order Code



Model Options

DC10-40-H-J-R

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
V	Fluorocarbon
P	Polyurethane
U	PPDI Urethane

R Spring

CODE	DESCRIPTION
25	25 psi Bias Spring
70	70 psi Bias Spring
115	115 psi Bias Spring