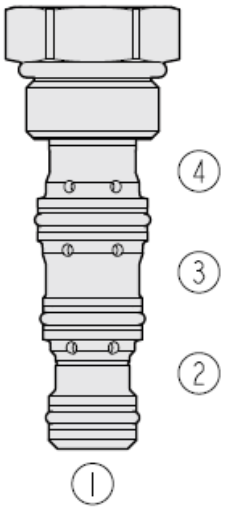
Overview



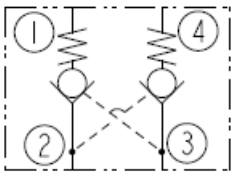
Description

The DC08-41 is a cartridge style, dual pilot operated check valve for use in blocking or load holding circuits with general purpose hydraulic fluids.

Features

- High pilot ratio for high ratio cylinders and rod-end load holding
- Can replace a counterbalance valve in some applications
- Hardened seat for long life and low leakage
- Low pressure drop
- Space saving: two PO checks in one 4-ported cartridge

Symbol



Ratings

Pressure Ratings

Pressure rating	241 bar (3500 psi)
Proof pressure	350 bar (5075 psi)
Burst pressure	966 bar (14000 psi)
Pilot ratio	5:1

Flow Ratings

Flow rating	See graphs	
Maximum internal leakage	0.25 ml/min (5 drops/min)	**- Note:** Max at 207 bar (3500 psi)

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
	-54 to 107 °C (-65 to 225 °F)	**- Note:** With polyurethane seals
Storage temperature	-40 to 70 °C (-40 to 160 °F)	
Ambient temperature	-40 to 90 °C (-40 to 194 °F)	

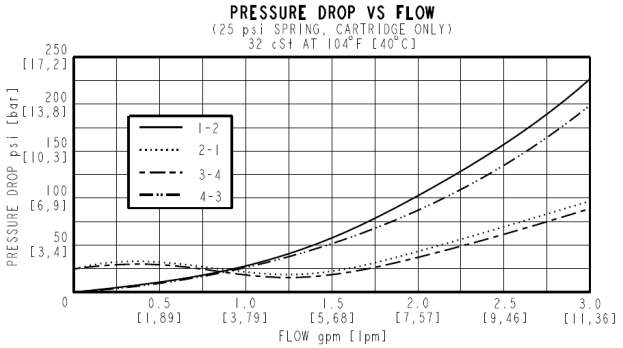
Operating Parameters

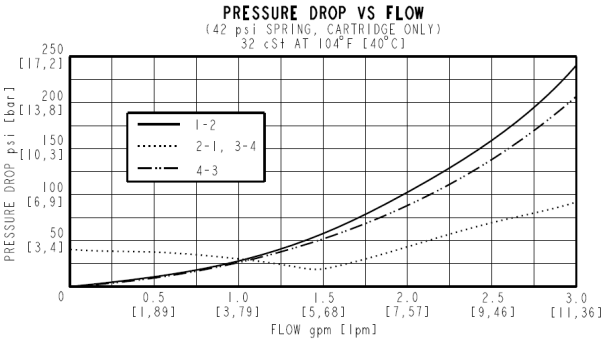
Fluids	Mineral based or synthetic hydraulic fluid with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination level	20/18/14 per ISO 4406

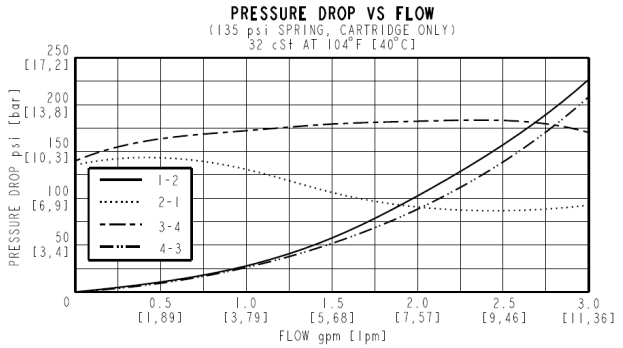
Properties

Unit weight	0.07 kg (0.16 lb)
Internal wetted surface area	110 cm² (17 in²)

Performance



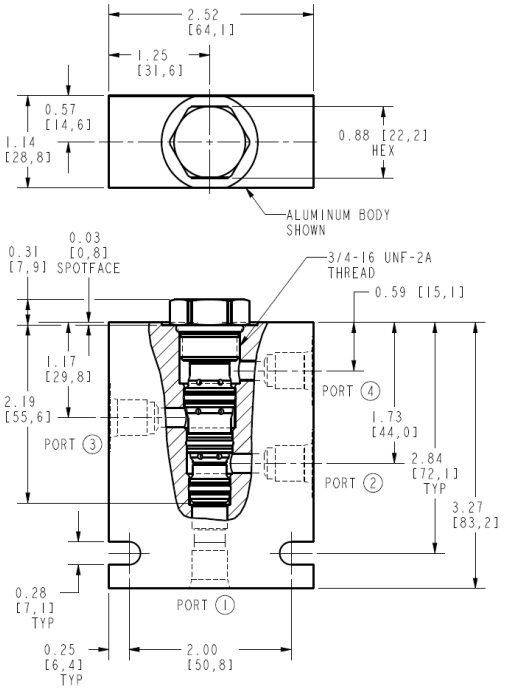




Dimensions

INCH
[mm]

OUTLINE



ALL DIMENSIONS ARE FOR REFERENCE ONLY.

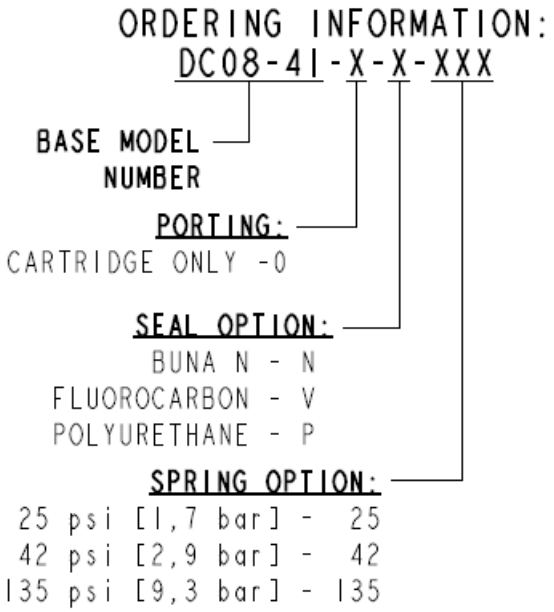
Installation Specifications

Cavity	VC08-4
Cartridge installation torque	25.8 to 28.6 N-m (19 to 21 ft-lb)
Maximum allowable torque	54.2 N-m (40 ft-lb)
Orientation restriction	None

Accessories

Seal kit	SK08-4N-OOO	**- Note:** Buna N
	SK08-4V-MMM	**- Note:** Fluorocarbon
	SK08-4U-OOO	**- Note:** Polyurethane

Order Code



Model Options

DC08-41-H-J-R

H Line Body

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

J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
P	Polyurethane

R Spring

CODE	DESCRIPTION
25	25 psi Bias Spring
42	42 psi Bias Spring
135	135 psi Bias Spring