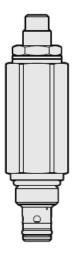


Overview



Description

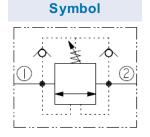
The CR08-28X is a screw in, cartridge style, direct acting, differential area, poppet type, internally vented, bidirectional hydraulic relief valve intended for use as a pressure limiting device for common hydraulic circuit protection.

Operation

The CR08-28X blocks flow from either port 1 or port 2. on attainment of a predetermined pressure at either port 1 or port 2, the spring-opposed poppet is forced from its seat. The cartridge offers fast response to load changes in typical hydraulic circuits requiring low hysteresis, low pressure rise and low internal leakage.

<u>Features</u>

- Range of adjustment options
- Pressure setting range of 138-276 bar (2000-4000 psi)
- $\circ~$ Corrosion-protection of 960 hours salt spray per ASTM B117.
- Hardened parts for long life.
- Industry common cavity.



Ratings

<u>Pressure Ratings</u>		
Pressure rating	276 bar (4000 psi)	
Proof pressure	689.7 bar (10000 psi)	
Burst pressure	827.6 bar (12000 psi)	
Crack pressure defined	Pressure evident at 0.95 lpm (0.	25 gpm)
Reseat pressure	Nominal 85% of crack pressure l drops/min)	eakage to - Note: Leakage to 1 ml/min (20
Flow Ratings		
Flow rating	37.9 lpm (10 gpm)	
Maximum internal leakage	1 ml/min (20 drops/min)	
<u>Temperature Ratings</u>		
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 70 °C (-40 to 160 °F)	
<u>Other Ratings</u>		
Corrosion protection	960 hr salt spray per ASTM b117	7
Operating Parameters		

Operating Parameters

Fluids	Mineral based or synthetic with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination	18/16/13 per ISO 4406
level	

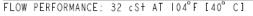


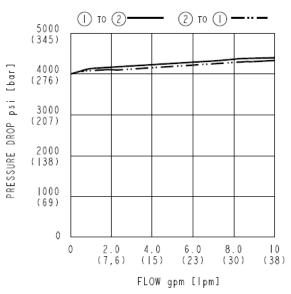
Properties

Unit weight 0.26 kg (0.57 lb) 0.28 kg (0.62 lb) 0.30 kg (0.67 lb) 0.24 kg (0.52 lb)	 Note: Adjuster option A Note: Adjuster option B Note: Adjuster option C, L Note: Adjuster option F, H
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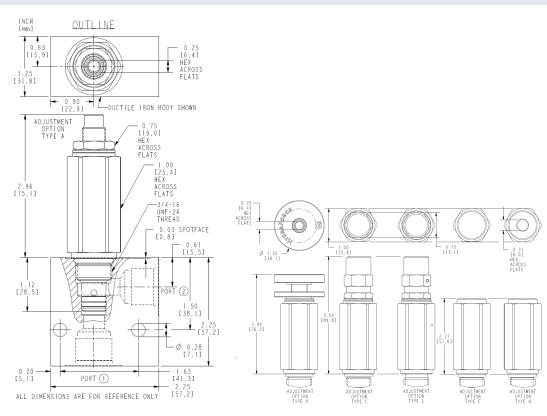
Performance

RELIEF PRESSURE VS. FLOW CHARACTERISTIC: FLOW PERFORMANCE: 32 cSt AT 104°F [40° C]





Dimensions



Installation Specifications

Cavity	VC08-2
Cartridge installation torque	25.8 to 28.5 N-m (19 to 21 ft-lb)
H style plug torque	32.5 to 35.2 N-m (24 to 26 ft-lb)
Orientation restriction	None

Accessories

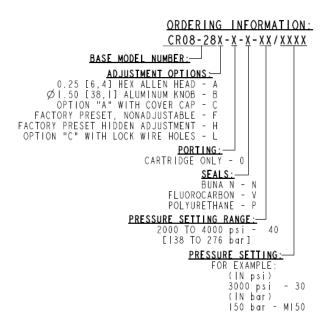
CR08-28

hydraforce.com

Seal kit

SK08-2X-M • Note: X = seal option

Order Code



Model Options

CR08-28F-H-J-R/S

F Adjustment Option

CODE DESCRIPTION

А	1/4" Hex Allen Head
В	1-1/2" Diameter Auminum Knob with Auminum Lock Knob
С	1/4" Hex Allen Head with Cover Cap
F	Factory Preset Non-Adjustable

- H Factory Preset Hidden Adjustment
- L 1/4" Hex Allen Head with Cover Cap and Lockwire Holes

H Line Body

 No Body Auminum SAE 4 Auminum SAE 6 Auminum SAE 8 Auminum SAE 8 Ductile Iron SAE 6 Ductile Iron SAE 8 Auminum BSPE 1/4" (2) 	CODE	DESCRIPTION
6TAluminum SAE 68TAluminum SAE 86TDDuctile Iron SAE 68TDDuctile Iron SAE 8	0	No Body
8TAluminum SAE 86TDDuctile Iron SAE 68TDDuctile Iron SAE 8	4T	Aluminum SAE 4
6TDDuctile Iron SAE 68TDDuctile Iron SAE 8	6T	Aluminum SAE 6
8TD Ductile Iron SAE 8	8T	Aluminum SAE 8
	6TD	Ductile Iron SAE 6
2B Aluminum BSPP 1/4" (2)	8TD	Ductile Iron SAE 8
	2B	Aluminum BSPP 1/4" (2)

Aluminum BSPP 3/8" (3)

3B



CODE DESCRIPTION

3BD	Ductile Iron BSPP 3/8" (3)
J Sea	d

ooda

CODE	DESCRIPTION
Ν	Buna-N
V	Fluorocarbon
Ρ	Polyurethane
U	PPDI Urethane

R Spring

CODE DESCRIPTION

40 137.9 to 275.9 bar (2000 to 4000 psi) Spring Range

S Setting

CODE	DESCRIPTION
MXXX	Spring Setting in XXX bar
XX	Spring Setting in XX psi (x 100)