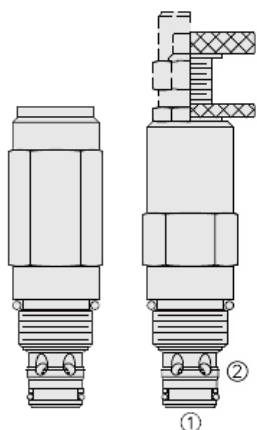
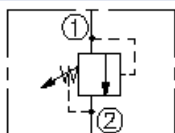




Overview



Symbol



Description

RV10-26X is a screw in, cartridge style, pilot operated (two stage), spool type hydraulic relief valve, intended for use as a pressure limiting device in demanding hydraulic circuits which require fast response and low hysteresis

Operation

The RV10-26X blocks flow from port 1 to port 2 until sufficient pressure is present at port 1 to force the piloting relief off its seat, allowing the main (second stage) spool to shift, opening port 1 to port 2

note: this valve cannot be used in cross-over relief applications

Features

- Adjustments cannot be backed out of the valve.
- Adjustment options A, B and C: positive stops prevent springs from going solid.
- Hardened spool and cage for long life.
- Optional spring ranges to 207 bar (3000 psi).
- Fast, smooth response to pressure surges.
- Industry common cavity.

Ratings

Pressure Ratings

Pressure rating	241 bar (3500 psi)	
Proof pressure	517.1 bar (7500 psi)	
Burst pressure	1037.7 bar (15000 psi)	
Relief pressure defined	Pressure evident at 7.57 lpm (2 gpm)	
Reseat pressure	Nominal 90% of crack	
Relief pressure range	6.9 to 206.8 bar (100 to 3000 psi)	- Note: From zero to maximum control current

Flow Ratings

Flow rating	113.6 lpm (30 gpm)	- Note: At max pressure
Maximum internal leakage	114.7 ml/min (7 in ³ /min) below 137.9 bar (2000 psi)	- Note: At port 2 at 85% of crack pressure. Pressure setting
	491.6 ml/min (30 in ³ /min) above 137.9 bar (2000 psi)	- Note: At port 2 at 85% of crack pressure. Pressure setting

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 and urethane seals
Storage temperature	-40 to 70 °C (-40 to 160 °F)	
Ambient temperature	-40 to 70 °C (-40 to 160 °F)	

Other Ratings

Corrosion protection	Grv10-26x 960 hour salt spray per ASTM b117 cartridge weight
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Operating Parameters

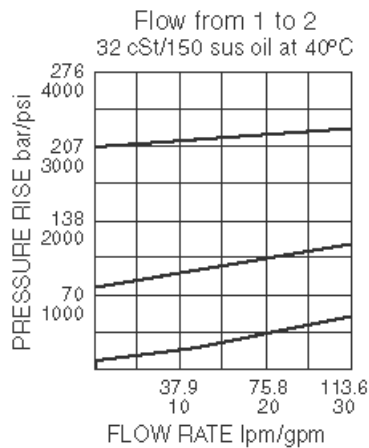
Fluids	Mineral based or synthetic with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination level	18/16/13 per ISO 4406



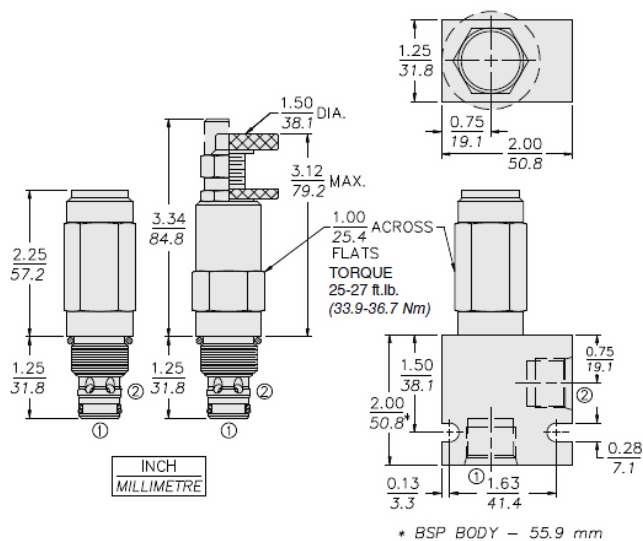
Properties

Unit weight	0.25 kg (0.55 lb)	- Note: A
	0.27 kg (0.60 lb)	- Note: B
	0.29 kg (0.65 lb)	- Note: C L
	0.24 kg (0.53 lb)	- Note: F h
Internal wetted surface area	141 cm ² (21.8 in ²)	- Note: A b c l
	161 cm ² (24.9 in ²)	- Note: F h

Performance



Dimensions



Materials

Materials

Cartridge: Weight: with Adjustment Option A: 0.25 kg. (0.55 lb.) B: 0.27 kg. (0.60 lb.) C,L: 0.29 kg. (0.65 lb.) F,H: 0.24 kg. (0.53 lb.) Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N seals standard. Anodized aluminum knobs. Optional polyurethane seals recommended for pressures over 240 bar (3500 psi).

Ported Body: Weight: 0.16 kg. (0.35 lbs.) Anodized high-strength aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ.

Installation Specifications

Cavity	VC10-2
Cartridge installation torque	33.9 to 36.7 N-m (25 to 27 ft-lb) 66.7 N-m (50 ft-lb) - Note: Maximum allowable
Adjuster cap torque	32.5 to 35.3 N-m (24 to 26 ft-lb) - Note: H-style plug
Orientation restriction	None



Accessories

Seal kit	SK10-2X-B	- Note: X = n, v, P
	SK10-2X-M	- Note: X = NC, VC
	SK10-2X-O	- Note: X = U
Housings		



Order Code

POSITION	CODE	DESCRIPTION
		RV10-26F-H-J-R/S
F		Adjustment Option
F	A	1/4" Hex Allen Head
F	B	1-1/2" Diameter Aluminum Knob with Aluminum Lock Knob
F	C	1/4" Hex Allen Head with Cover Cap
F	F	Factory Preset Non-Adjustable
F	H	Factory Preset Hidden Adjustment
F	L	1/4" Hex Allen Head with Cover Cap and Lockwire Holes
H		Line Body
H	0	No Body
H	6T	Aluminum SAE 6
H	8T	Aluminum SAE 8
H	6TD	Ductile Iron SAE 6
H	8TD	Ductile Iron SAE 8
H	2B	Aluminum BSPP 1/4" (2)
H	3B	Aluminum BSPP 3/8" (3)
H	4B	Aluminum BSPP 1/2" (4)
H	4BD	Ductile Iron BSPP 1/2" (4)
J		Seal
J	N	Buna-N
J	V	Fluorocarbon
J	P	Polyurethane
J	U	PPDI Urethane
R		Spring
R	04	6.9 to 27.6 bar (100 to 400 psi) Spring Range
R	15	10.3 to 103.4 bar (150 to 1500 psi) Spring Range
R	30	27.6 to 206.8 bar (400 to 3000 psi) Spring Range
S		Setting
S	MXXX	Spring Setting in XXX bar
S	XX	Spring Setting in XX psi (x 100)

