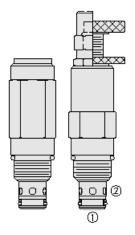


Overview



RV10-22A-0-N-35 e-mail:

www:www.salushydraulics.ple-mail:pl@salushydraulics.plshop/sklep:www.salushydraulics.pl/sklep/

RV10-22X is a screw in, cartridge style, direct acting, differential area, poppet type hydraulic relief valve intended for use as a pressure limiting device in more demanding hydraulic circuits requiring low hysteresis and low internal leakage

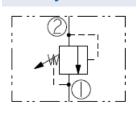
<u>Operation</u>

Description

The RV10-22X blocks flow from port 2 to port 1 until sufficient pressure is present at port 2 to force the poppet from its seat. The cartridge offers smooth transition in response to loads in common hydraulic circuits

Features

- Adjustments cannot be backed out of the valve.
- Adjustments options A, B, and C: positive stops prevent springs from going solid.
- Hardened poppet and cage for long life.
- Optional spring ranges to 241 bar (3500 psi).
- Rapid response to pressure surges.
- Industry-common size.



Symbol

Ratings

Pressure Ratings	
Pressure rating	241.3 bar (3500 psi)
Proof pressure	482.6 bar (7000 psi)
Burst pressure	965.3 bar (14000 psi)
Relief pressure defined	Pressure evident at 0.95 lpm (0.25 gpm)
Flow Ratings	
Flow rating	113.6 lpm (30 gpm)
Maximum internal leakage	5 drops/min • Note: To 85% of nominal setting
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 70 °C (-40 to 160 °F)
Other Ratings	
Corrosion protection	GRV10-22X 960 hr salt spray per ASTM b117

Operating Parameters

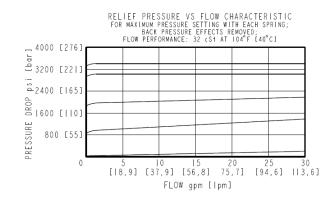
FluidsMineral based or synthetic hydraulic fluid with lubricating propertiesFluid viscosity range7.4 to 420 cStMaximum operating contamination level18/16/13 per ISO 4406



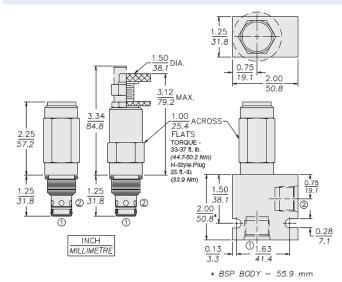
Properties

Unit weight	0.231 kg (0.51 lb) 0.254 kg (0.56 lb) 0.276 kg (0.61 lb)	- Note: RV10-22A - Note: RV10-22B - Note: RV10-22C, RV10-22L	
Internal wetted surface area	0.276 kg (0.61 lb) 0.222 kg (0.49 lb) 114 cm² (17.7 in²)	- Note: RV10-22C, RV10-22L - Note: RV10-22F, RV10-22H - Note: A. B. C and L	
	$126 \text{ cm}^2 (19.5 \text{ in}^2)$	- Note: F and H	

Performance



Dimensions



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-T • Note: X = N, V, P SK10-2X-M • Note: For bidirectional operation	

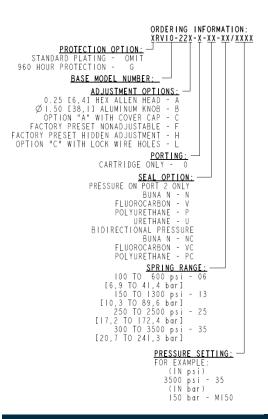
- Note: X = U

SK10-2X-O

Housings

Order Code





POSITION CODE

F F F F

	RV10-22F-H-J-R/S
	Adjustment Option
А	1/4" Hex Allen Head
В	1-1/2" Diameter Aluminum Knob with Aluminum Lock Knob
С	1/4" Hex Allen Head with Cover Cap
F	Factory Preset Non-Adjustable
н	Factory Preset Hidden Adjustment

F	Н	Factory Preset Hidden Adjustment
F	L	1/4" Hex Allen Head with Cover Cap and Lockwire Holes
н		Line Body
н	0	No Body
н	6T	Aluminum SAE 6
н	8T	Aluminum SAE 8
н	6TD	Ductile Iron SAE 6
н	8TD	Ductile Iron SAE 8
н	2B	Aluminum BSPP 1/4" (2)
н	3B	Aluminum BSPP 3/8" (3)
н	4B	Aluminum BSPP 1/2" (4)
н	4BD	Ductile Iron BSPP 1/2" (4)
J		Seal
J	Ν	Buna-N
J	NC	Buna-N for Crossover Applications
J	V	Fluorocarbon
J	VC	Fluorocarbon for Crossover Applications
J	Р	Polyurethane
J	PC	Polyurethane for Crossover Applications

DESCRIPTION



POSITION	CODE	DESCRIPTION
J	U	PPDI Urethane
R		Spring
R	06	6.9 to 41.5 bar (100 to 600 psi) Spring Range
R	13	10.3 to 89.6 bar (150 to 1300 psi) Spring Range
R	25	17.2 to 172.4 bar (250 to 2500 psi) Spring Range
R	35	20.7 to 241.3 bar (300 to 3500 psi) Spring Range
S		Setting
S	MXXX	Spring Setting in XXX bar
S	XX	Spring Setting in XX psi (x 100)