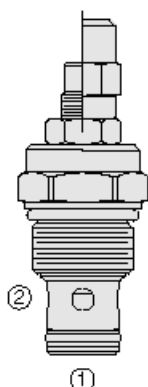




Overview



Description

NV10-22 is a screw-in, cartridge style, variable orifice, hydraulic flow restrictor valve.

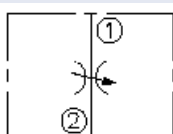
Operation

The valve increases its orifice value from fully closed to fully open with counter-clockwise adjustment rotation.

Features

- Adjustments cannot be backed out of the valve.
- Desired settings may be locked down.
- Hardened parts for long life.
- Positive shut-off.
- Linear adjustment.
- Industry-common cavity.

Symbol



Ratings

Pressure Ratings

Pressure rating	241 bar (3500 psi)
Proof pressure	345 bar (5000 psi)
Burst pressure	896 bar (13000 psi)

Flow Ratings

Flow rating	See pressure drop vs. Flow chart
Maximum internal leakage	0.05 ml/min (1 drops/min) - Note: Max at shut-off

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 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	960 hr salt spray per ASTM b117 (model number: gnv10-22x)
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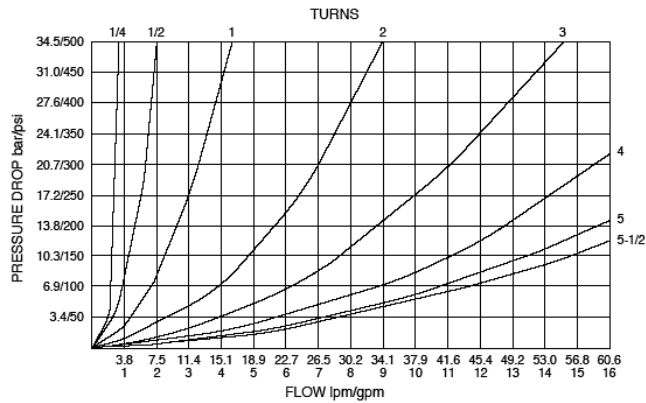
Operating Parameters

Fluids	Mineral based or synthetic hydraulic fluid with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination level	18/16/13 per iso4406

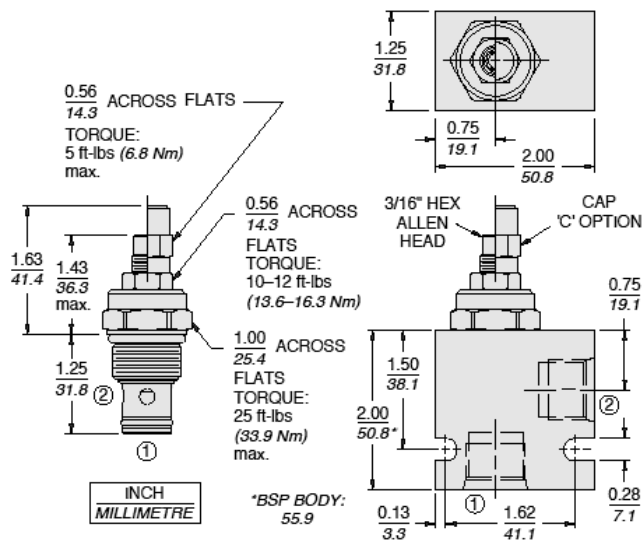
Properties

Unit weight	0.12 kg (0.27 lb) - Note: Option A
Internal wetted surface area	76.1 cm ² (11.8 in ²)

Performance



Dimensions



Installation Specifications

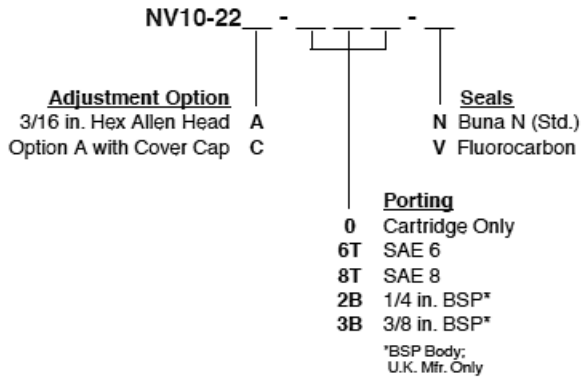
Cavity	VC10-2
Cartridge installation torque	34 to 37 N-m (25 to 27 ft-lb)
Maximum allowable torque	67.8 N-m (50 ft-lb)
Orientation restriction	None

Accessories

Seal kit	SK10-2X-M - Note: N, V = seal option SK10-2U-O
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Order Code



Model Options

NV10-22F-H-J

F Adjustment Option

CODE	DESCRIPTION
A	3/16" Hex Allen Head
C	3/16" Hex Allen Head with Cover Cap

H Line Body

CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
8T	Aluminum SAE 8
6TD	Ductile Iron SAE 6
8TD	Ductile Iron SAE 8
2B	Aluminum BSPP 1/4" (2)
3B	Aluminum BSPP 3/8" (3)
4B	Aluminum BSPP 1/2" (4)
4BD	Ductile Iron BSPP 1/2" (4)

J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
P	Polyurethane
U	PPDI Urethane