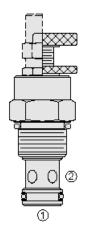


Overview



Description

A screw-in, cartridge style, variable orifice, hydraulic flow restrictor valve.

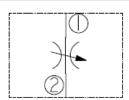
Operation

The NV12-20 valve increases its orifice size 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.
- · Aluminum knob option.
- · Positive shut-off.
- · Linear adjustment.
- · Cost-effective 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 0.15 ml/min (3 drops/min) - Note: At shut-off

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)
-40 to 149 °C (-40 to 300 °F)

-Note: With buna N seals
- Note: With fluorocarbon seals
- Note: With polyurethane seals
- Note: With HNBR seals

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

Operating Parameters

Fluids Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range 7.4 to 420 cSt
Maximum operating contamination 18/16/13 per iso4406

level

Properties

Adjustment torque 0.3 to 0.6 N-m (3to 5 in-lb) - Note: At 241 bar (3500 psi)

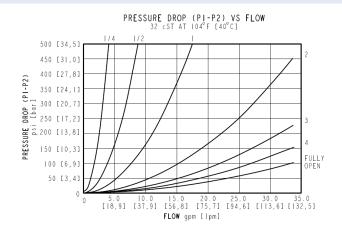
Unit weight 0.23 kg (0.50 lb) - Note: Option A

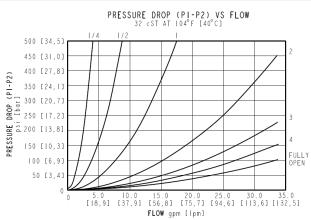
Internal wetted surface area 94 cm² (14.6 in²)

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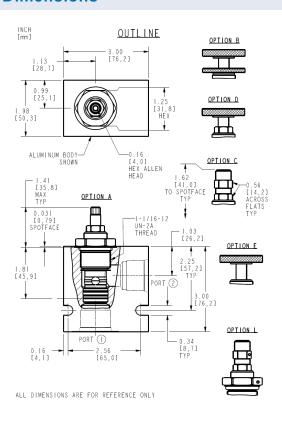


Performance





Dimensions



Installation Specifications

Cavity VC12-2 or HNV12-2

Cartridge installation torque 122 to 136 N-m (90 to 100 ft-lb)

Orientation restriction None

Accessories

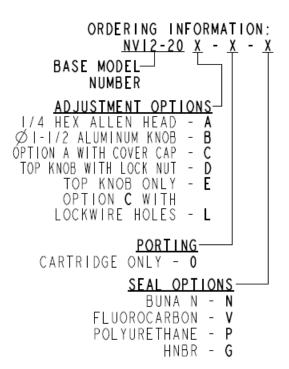
Seal kit SK12-2X-M-115 - Note: Buna N, Fluorocarbon, HNBR

SK12-2P-0 - Note: Polyurethane

Order Code

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Model Options

NV12-20F-H-J

F Adjustment Option

CODE	DESCRIPTION
Α	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
D	1-1/2" Diameter Aluminum Knob with Lock Nut
E	1-1/2" Diameter Aluminum Knob Only
L	1/4" Hex Allen Head with Cover Cap and Lockwire Holes

H Line Body

CODE	DESCRIPTION
0	No Body
10T	Aluminum SAE 10
12T	Aluminum SAE 12
16T	Aluminum SAE 16
12TD	Ductile Iron SAE 12
16TD	Ductile Iron SAE 16
8B	Aluminum BSPP 1" (8)
8BD	Ductile Iron BSPP 1" (8)

J Seal

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

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