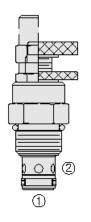


## **Overview**



#### **Description**

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

#### **Operation**

The NV10-20 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.
- Aluminum knob option.
- 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: 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)

-54 to 107 °C (-65 to 225 °F)

-54 to 107 °C (-65 to 225 °F)

-65 to 204 °C (-75 to 400 °C)

-80 to 100 °C (-80 to 210 °C)

-80 to 100 °C (-80 to 210 °C)

-80 to 100 °C (-80 to 210 °C)

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: GNV10-20x)

#### **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 0.56 N-m (5 in-lb) - **Note:** At 7 bar (100 psi) - **Note:** At 207 bar (3000 psi)

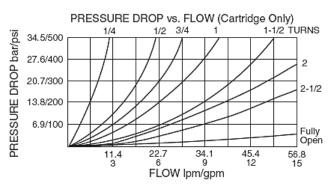
Unit weight 0.14 kg (0.30 lb) - Note: Option A

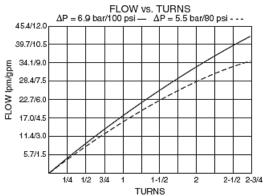
Internal wetted surface area 91 cm² (14.1 in²)

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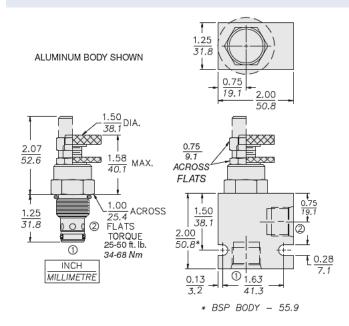


## **Performance**





## **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

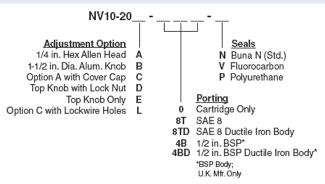
## **Accessories**

Seal kit SK10-2X-M - Note: X = seal option

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# **Order Code**



# **Model Options**

NV10-20F-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	
Е	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
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
Р	Polyurethane
U	PPDI Urethane

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