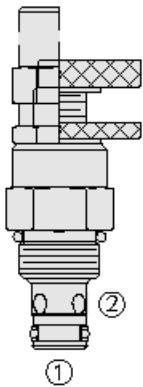




## Overview



### Description

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

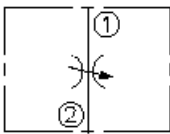
### Operation

The NV08-20 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.
- Compact size.

### 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	0.32 ml/min (5 drops/min) - <b>Note:</b> At shut-off

### Temperature Ratings

Operating fluid temperature	-40 to 120 °C (-40 to 250 °F)	- <b>Note:</b> With buna N seals
	-26 to 204 °C (-15 to 400 °F)	- <b>Note:</b> With fluorocarbon seals
	-54 to 107 °C (-65 to 225 °F)	- <b>Note:</b> 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	960 hr salt spray per ASTM b117 (model number gnv08-20xx)
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## Operating Parameters

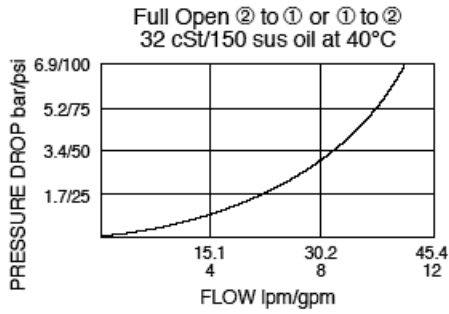
Fluids	Mineral based or synthetic hydraulic fluid with lubricating properties	
Fluid viscosity range	7.4 to 420 cSt	
Maximum operating contamination level	18/16/13 per iso4406	

## Properties

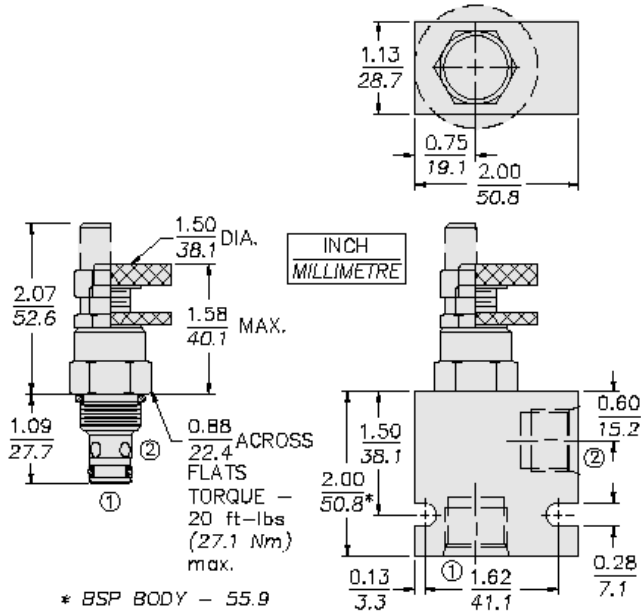
Adjustment torque	0.6 N-m (5 in-lb)	- <b>Note:</b> At 7 bar (100 psi)
	5.4 N-m (48 in-lb)	- <b>Note:</b> At 207 bar (3000 psi)
Unit weight	0.12 kg (0.26 lb)	- <b>Note:</b> Option A
Internal wetted surface area	60.4 cm <sup>2</sup> (9.36 in <sup>2</sup> )	



## Performance



## Dimensions



## Installation Specifications

Cavity	VC08-2
Cartridge installation torque	27 N-m (20 ft-lb)
Maximum allowable torque	47.5 N-m (35 ft-lb)
Orientation restriction	None

## Accessories

Seal kit SK08-2X-M - **Note:** X = seal option

## Order Code

NV08-20 - - -

<b>Adjustment Option</b>		<b>Seals</b>
1/4 in. Hex Allen Head	A	N Buna N (Std.)
1-1/2 in. Dia. Alum. Knobs	B	V Fluorocarbon
Option A with Cover Cap	C	
Top Knob with Lock Nut	D	
Top Knob Only	E	
Lockwire Holes (with Option C)	L	
		<b>Porting</b>
		0 Cartridge Only
		4T SAE 4
		6T SAE 6
		2B 1/4 in. BSP*
		3B 3/8 in. BSP*
		4B 1/2 in. BSP*

\*BSP Body; U.K. Mfr. Only

## Model Options



## NV08-20FG-H-J

### F Adjustment Option

CODE	DESCRIPTION
A	1/4" Hex Allen Head
B	1-1/2" Diameter Aluminum Knob with Aluminum Lock Knob
C	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

### G Screen

CODE	DESCRIPTION
BLANK	NONE
S	100 Mesh Screen

### H Line Body

CODE	DESCRIPTION
0	No Body
4T	Aluminum SAE 4
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)
3BD	Ductile Iron BSPP 3/8" (3)

### J Seal

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