

CV

Check  
Valves

SH

Shuttle  
ValvesLM  
Load/Motor  
Controls

FC

Flow  
Controls

PC

Pressure  
Controls

LE

Logic  
ElementsDC  
Directional  
Controls

MV

Manual  
Valves

SV

Solenoid  
ValvesPV  
Proportional  
ValvesCE  
Coils &  
ElectronicsBC  
Bodies &  
Cavities

TD

Technical  
Data

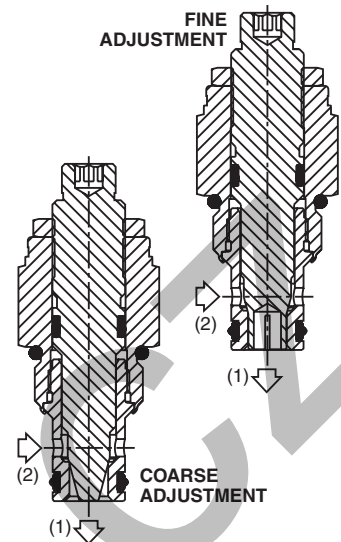
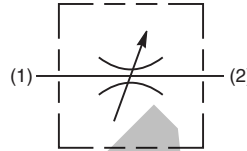
## General Description

Cartridge Style Needle Valve.  
For additional information see  
Technical Tips on pages FC1-FC4.



## Features

- Hardened, precision ground parts for durability
- Compact size for reduced space requirements
- Fine adjustment needle option available for precise adjustment
- Polyurethane "D"-Ring eliminates backup rings and prevents hydrolysis
- Valve meters flow in either direction, but (2 to 1) is the preferred direction for lowest leakage at shut off
- All external parts zinc plated

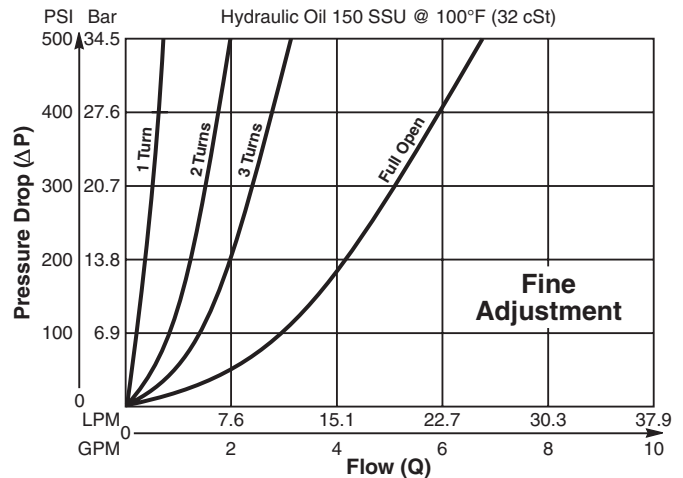
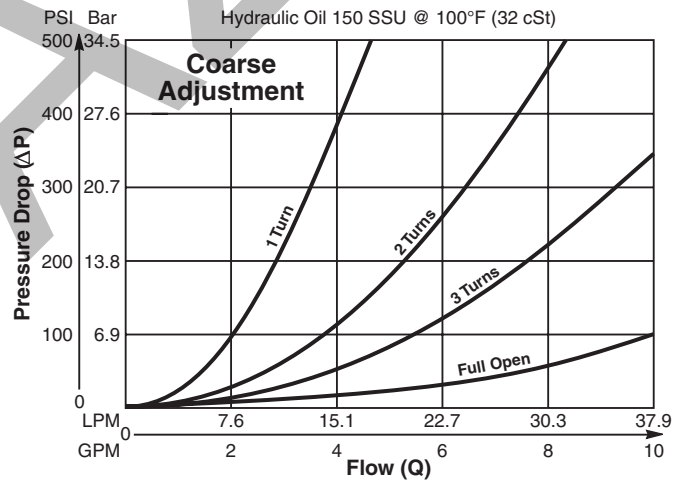


## Specifications

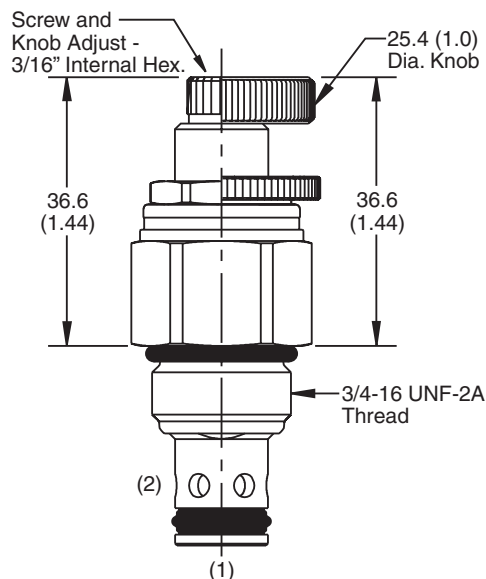
Rated Flow	Fixed 37.9 LPM (10 GPM) Adjusted
Maximum Inlet Pressure	380 Bar (5500 PSI)
Cartridge Material	All parts steel. All operating parts hardened steel.
Operating Temp. Range/Seals	-45°C to +132°C ("D"-Ring) (-50°F to +270°F) -34°C to +121°C (Nitrile) (-30°F to +250°F) -26°C to +204°C (Fluorocarbon) (-15°F to +400°F)
Fluid Compatibility/Viscosity	Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt)
Filtration	ISO-4406 18/16/13, SAE Class 4
Approx. Weight	.10 kg (.20 lbs.)
Cavity	No. C08-2 (See BC Section for more details)
Form Tool	Rougher None Finisher NFT08-2F

## Performance Curves

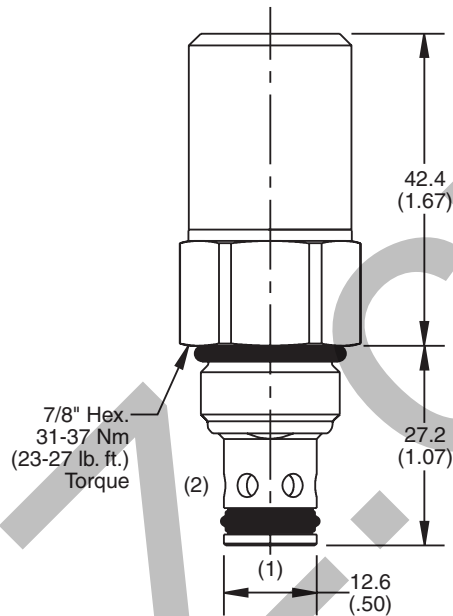
Flow vs. Inlet Pressure (Through cartridge only)



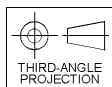
**Dimensions** Millimeters (Inches)



**Screw/Knob Version**



**Tamper Resistant Version**



**Ordering Information**

<b>NVH081</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>08 Size Needle Valve</b>	<b>Flow Needle</b>	<b>Adjustment Style</b>	<b>Seals</b>	<b>Body Material</b>	<b>Port Size</b>

Code	Flow Needle
Omit	Coarse
F	Fine

Code	Seals / Kit. No.
Omit	"D"-Ring / (SK08-2)
N	Nitrile / (SK08-2N)
V	Fluorocarbon / (SK08-2V)

Code	Body Material
Omit	Steel
A	Aluminum

Code	Port Size	Body Part No.
Omit	Cartridge Only	
4T	SAE-4	(B08-2-*4T)
6T	SAE-6	(B08-2-*6T)

\* Add "A" for aluminum, omit for steel.

Code	Adjustment Style
K	Knob Adjust (717784-10)
S	Screw Adjust
T	Tamper Resistant Cap (717943)