

Technical Information

**Needle Valve
Series NVH081**

CV
Check
Valves

SH
Shuttle
Valves

LM
Load/Motor
Controls

FC
Flow
Controls

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LE
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MV
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SV
Solenoid
Valves

PV
Proportional
Valves

CE
Coils &
Electronics

BC
Bodies &
Cavities

TD
Technical
Data

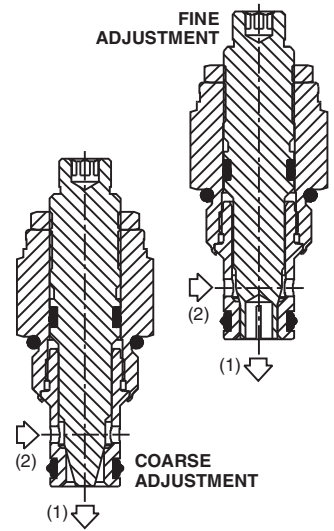
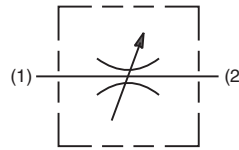
General Description

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

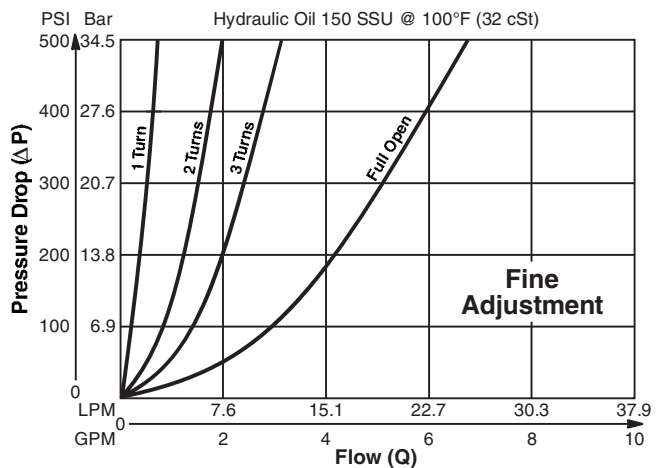
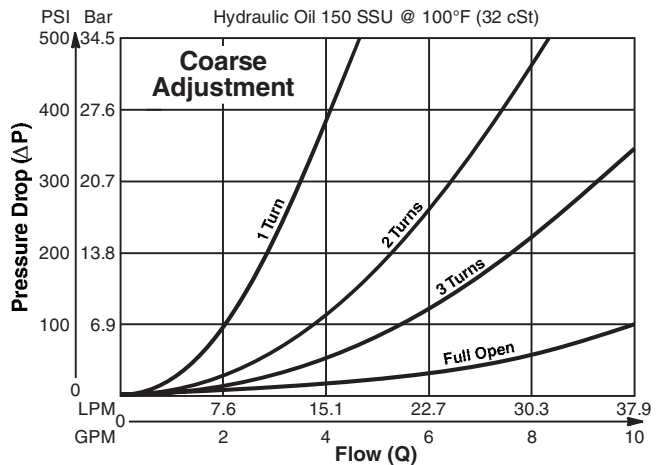


Specifications

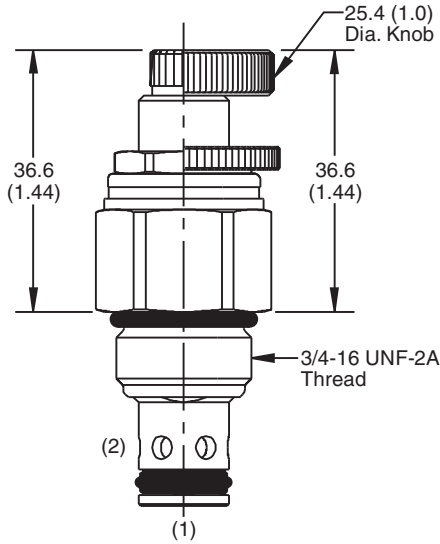
Rated Flow	Fixed 37.9 LPM (10 GPM) Adjusted
Maximum Inlet Pressure	380 Bar (5500 PSI)
Cartridge Material	All parts steel. All operating parts hardened steel.
Operating Temp. Range/Seals	-45°C to +93.3°C ("D"-Ring) (-50°F to +200°F) -31.7°C to +121.1°C (Fluorocarbon) (-25°F to +250°F)
Fluid Compatibility/ Viscosity	Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt)
Filtration	ISO Code 16/13, SAE Class 4 or better
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

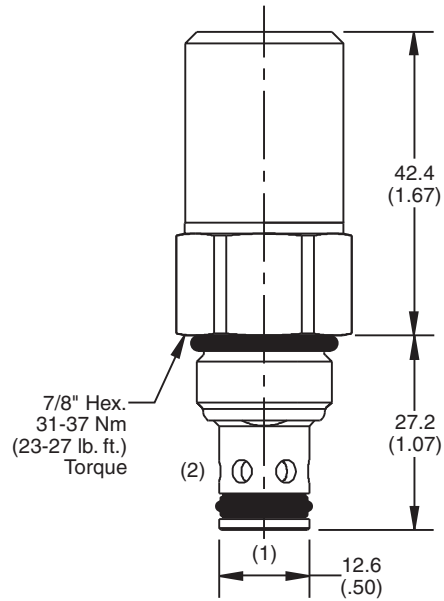
Flow vs. Inlet Pressure (Through cartridge only)



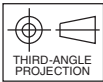
Dimensions Millimeters (Inches)



Screw/Knob Version



Tamper Resistant Version



Ordering Information



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	
4P	1/4" NPTF	(B08-2-*4P)
6P	3/8" NPTF	(B08-2-*6P)
4T	SAE-4	(B08-2-*4T)
6T	SAE-6	(B08-2-*6T)
6B	3/8" BSPG	(B08-2-*6B)

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

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

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