

General Description

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

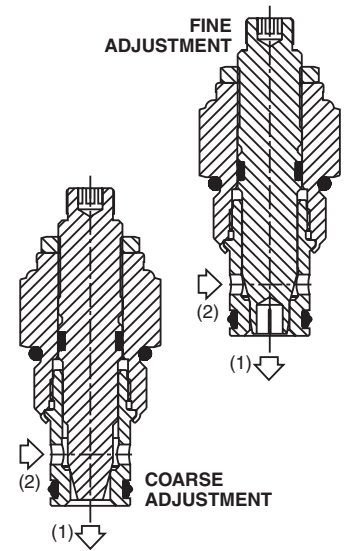
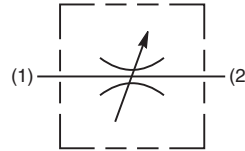
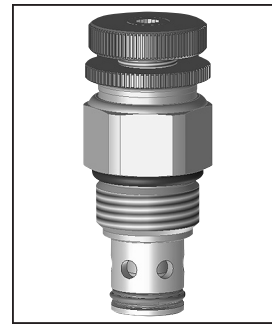


Features

- 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

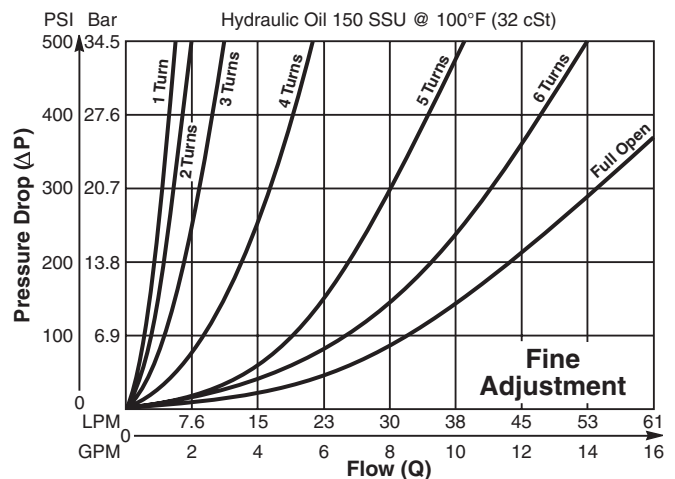
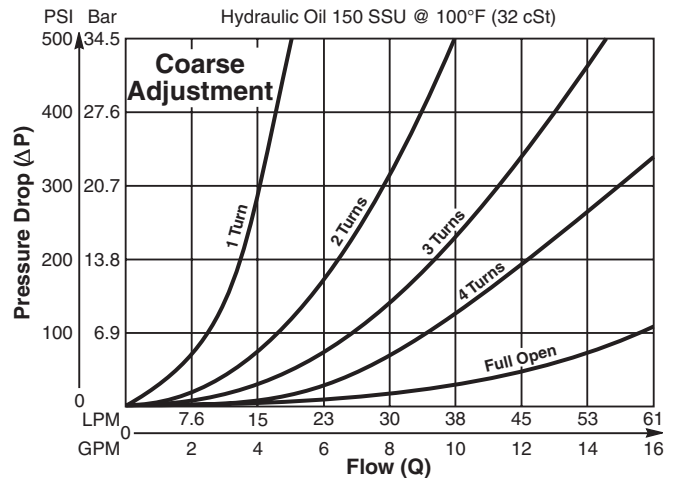
Specifications

| | |
|-------------------------------|---|
| Rated Flow | 60 LPM (16 GPM) |
| Maximum Inlet Pressure | 380 Bar (5500 PSI) |
| Cartridge Material | All parts steel. All operating parts hardened steel. |
| Operating Temp. Range/Seals | -37°C to +93°C (“D”-Ring) (-35°F to +200°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 | 0.18 kg (0.40 lbs.) |
| Cavity | C10-2 (See BC Section for more details) |
| Form Tool | Rougher None Finisher NFT10-2F |



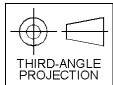
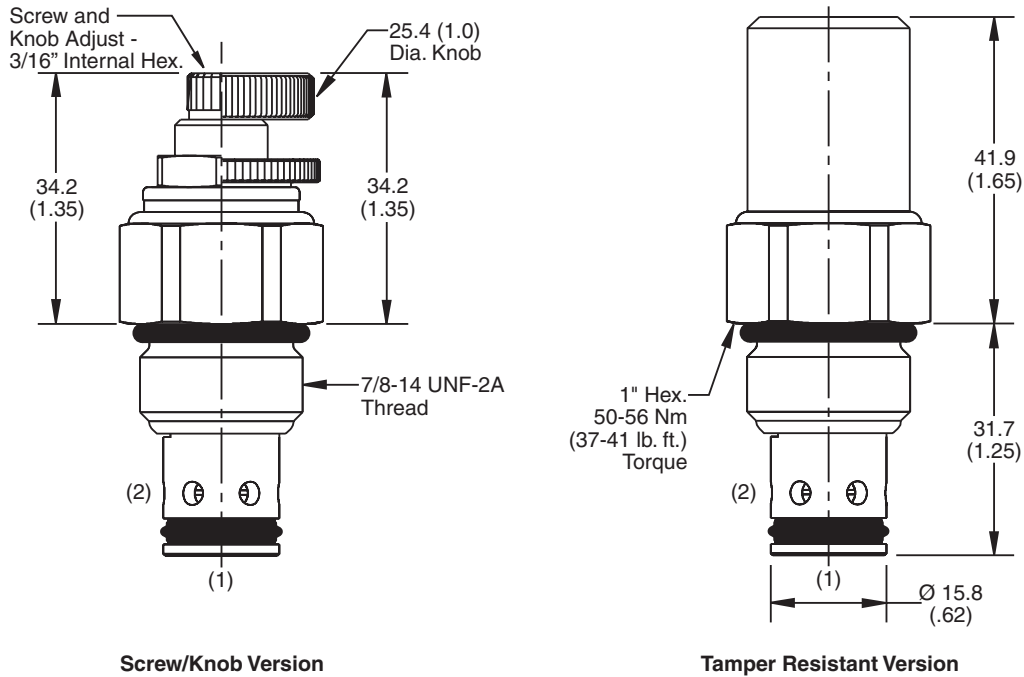
Performance Curves

Flow vs. Inlet Pressure (Through cartridge only)



- CV** Check Valves
- SH** Shuttle Valves
- LM** Load/Motor Controls
- FC** Flow Controls
- PC** Pressure Controls
- LE** Logic Elements
- DC** Directional Controls
- MV** Manual Valves
- SV** Solenoid Valves
- PV** Proportional Valves
- CE** Coils & Electronics
- CB** Cartridge Bodies
- BC** Bodies & Cavities
- TD** Technical Data

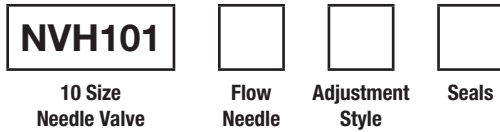
Dimensions Millimeters (Inches)



Screw/Knob Version

Tamper Resistant Version

Ordering Information



**10 Size
 Needle Valve**

**Flow
 Needle**

**Adjustment
 Style**

Seals

Highlighted represents preferred options that offer the shortest lead times. Other options may be available, but at extended lead times.

| Code | Flow Needle |
|------|-------------|
| Omit | Coarse |
| F | Fine |

| Code | Adjustment Style / Kit No. |
|------|-------------------------------|
| S | Screw Adjust |
| K | Knob Adjust (717784-10) |
| T | Tamper Resistant Cap (717943) |

| Code | Seals / Kit No. |
|------|--------------------------|
| Omit | "D"-Ring / (SK10-2) |
| N | Nitrile / (SK10-2) |
| V | Fluorocarbon / (SK10-2V) |

*Order Bodies Separately
 See section BC*



| Code | Porting / Body Material |
|------|------------------------------|
| 8T | SAE-8 / Steel (5000 PSI) |
| A8T | SAE-8 / Aluminium (3000 PSI) |

- CV Check Valves
- SH Shuttle Valves
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