

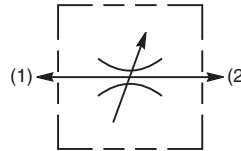
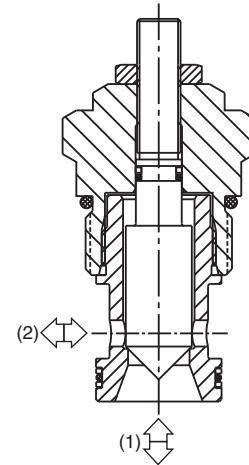
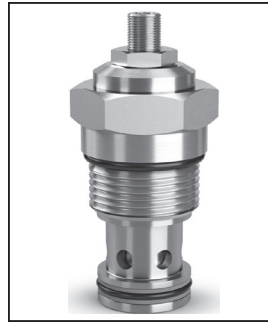
- CV** Check Valves
- SH** Shuttle Valves
- LM** Load/Motor Controls
- FC** Flow Controls
- PC** Pressure Controls
- LE** Logic Elements
- DC** Directional Controls
- MV** Manual Valves
- SV** Solenoid Valves
- PV** Proportional Valves
- CE** Coils & Electronics
- BC** Bodies & Cavities
- TD** Technical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

## General Description

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

## Features

- Shuts off to a very low leakage level
- High flow capacity
- Good adjustment sensitivity - ideal for fine control
- Good contamination tolerant
- Adjustable and tamperproof versions available
- All external parts zinc plated

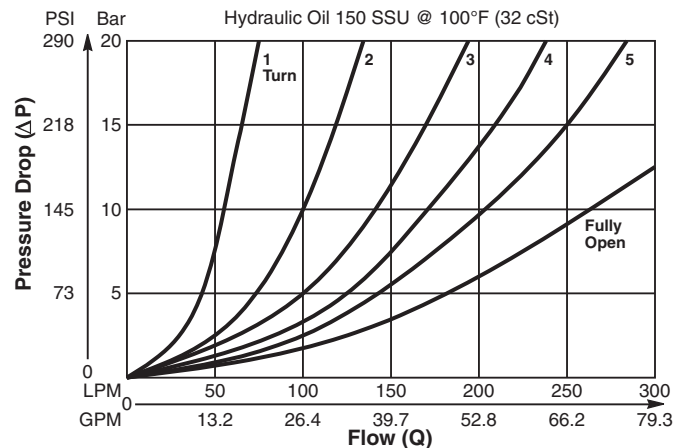


## Specifications

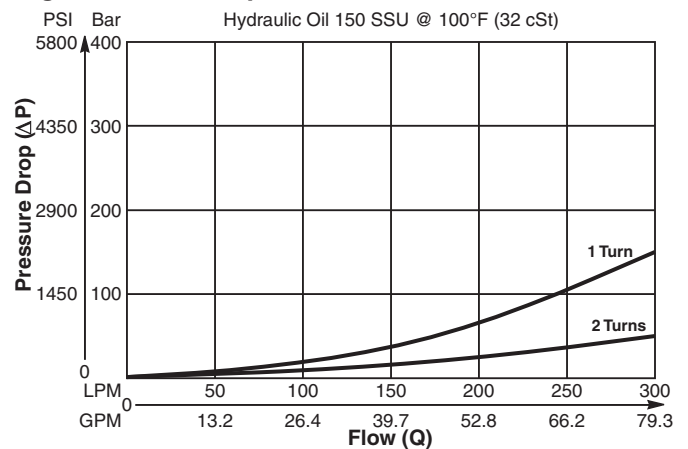
|                                      |  |
|--------------------------------------|--|
| <b>Rated Flow</b>                    | 225 LPM (60 GPM)   |
| <b>Maximum Inlet Pressure</b>        | 420 Bar (6000 PSI)   |
| <b>Cartridge Material</b>            | All parts steel. All operating parts hardened steel.   |
| <b>Operating Temp. Range/Seals</b>   | -34°C to +121°C (Nitrile)<br>(-30°F to +250°F)<br>-26°C to +204°C (Fluorocarbon)<br>(-15°F to +400°F)  |
| <b>Fluid Compatibility/Viscosity</b> | Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt) |
| <b>Filtration</b>                    | ISO-4406 18/16/13, SAE Class 4   |
| <b>Approx. Weight</b>                | .38 kg (.84 lbs.)  |
| <b>Cavity</b>                        | C16-2<br>(See BC Section for more details)   |
| <b>Form Tool</b>                     | Rougher None<br>Finisher NFT16-2F  |

## Performance Curves (Through cartridge only)

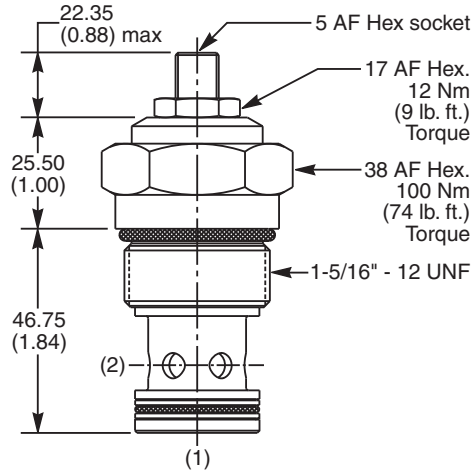
### Low Pressure Drop vs. Flow 1 to 2 & 2 to 1



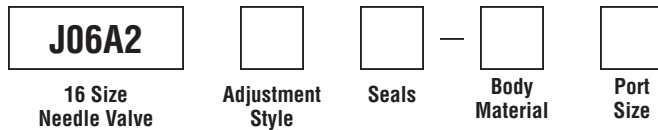
### High Pressure Drop vs. Flow 1 to 2 & 2 to 1



**Dimensions** Millimeters (Inches)



**Ordering Information**



| Code | Adjustment Style              |
|------|-------------------------------|
| Z    | Screw Adjust (Std.)           |
| W    | Knob Adjust                   |
| T    | Tamper Resistant Cap (TC1130) |

| Code | Seals / Kit. No.                      |
|------|---------------------------------------|
| N    | Nitrile, Buna-N (Std.) / (SK30507N-1) |
| V    | Fluorocarbon / (SK30507V-1)           |

| Code | Body Material |
|------|---------------|
| Omit | Steel         |
| A    | Aluminum      |

| Code | Port Size      | Body Part No. |
|------|----------------|---------------|
| Omit | Cartridge Only |               |
| 8T   | SAE-8          | (B16-2-*8T)   |
| 12T  | SAE-12         | (B16-2-*12T)  |
| 16T  | SAE-16         | (B16-2-*16T)  |

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