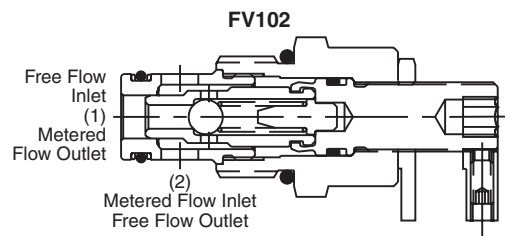
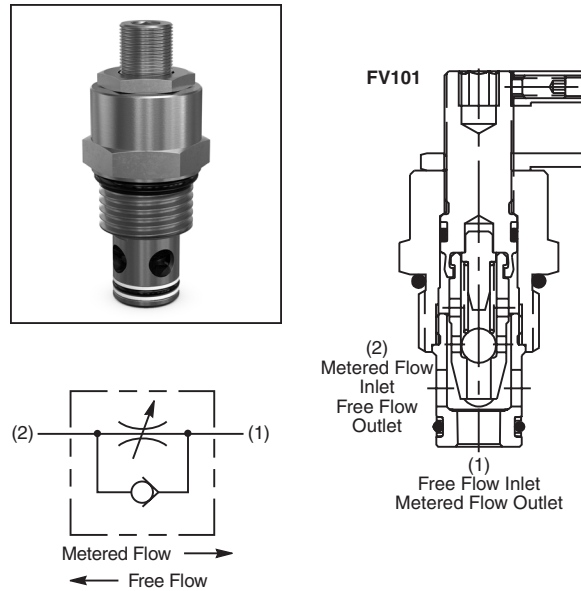


**General Description**

Needle Valve with a Reverse Check. Also known as a Flow Control Valve.  
 For additional information see Technical Tips on pages FC2-FC5.

**Features**

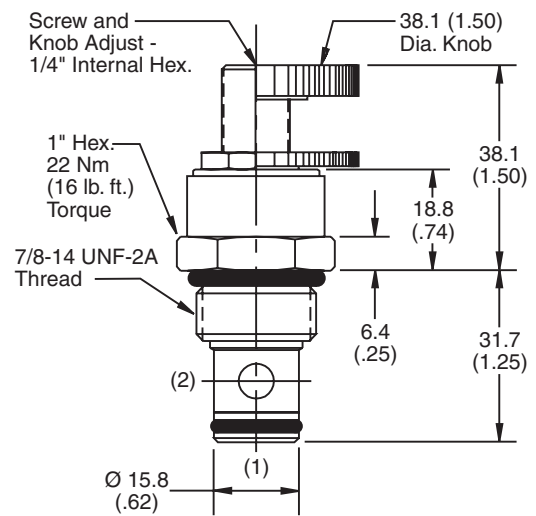
- Hardened, precision ground parts for durability
- Compact size for reduced space requirements
- Fine thread needle option available for precise adjustment
- All external parts zinc plated



**Specifications**

Rated Flow	<b>FV101</b> 45 LPM (12 GPM) <b>FV102</b> 23 LPM (6 GPM)
Maximum Inlet Pressure	210 Bar (3000 PSI)
Cartridge Material	All parts steel. All operating parts hardened steel.
Operating Temp. Range/Seals	-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	0.23 kg (0.50 lbs.)
Cavity	C10-2 (See BC Section for more details)

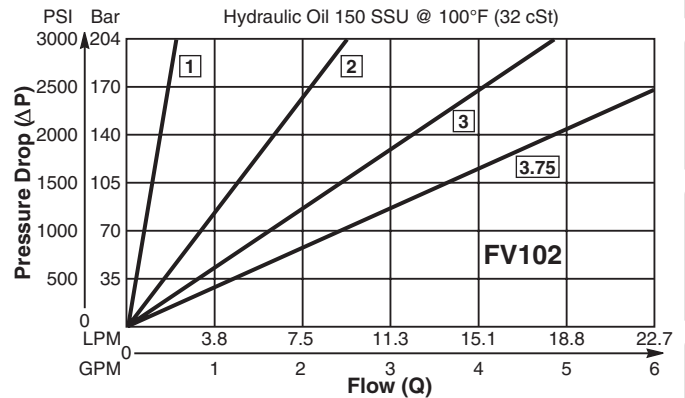
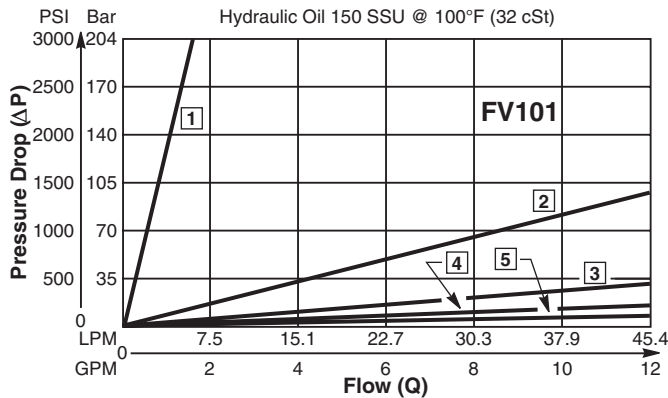
**Dimensions** Millimeters (Inches)



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

**Performance Curves**

**Metered Flow vs. Pressure Drop (Through cartridge only)**



**□ = No. of Turns CCW From Fully Closed.**

The number on each curve indicates the number of complete turns of the knob or screw adjustment from fully closed. When the metered flow is 22.5 LPM (6 GPM) and the adjustment is two complete turns from closed, the pressure drop will be 13.8 Bar (200 PSI). When the metered flow is 22.5 LPM (6 GPM) and the adjustment is five complete turns from closed, the pressure drop will be 3.5 Bar (50 PSI).

**□ = No. of Turns CCW From Fully Closed.**

The number on each curve indicates the number of complete turns of the knob or screw adjustment from fully closed (non-metered flow). When the metered flow is 7.5 LPM (2 GPM) and the adjustment is two complete turns from closed, the pressure drop will be 156.9 Bar (2275 PSI). When the metered flow is 7.5 LPM (2 GPM) and the adjustment is 3.75 turns from closed, the pressure drop will be 56.6 Bar (820 PSI).

**Ordering Information**

<b>FV10</b>	□	<b>S</b>
10 Size Flow Control Valve	Style	Adjustment Style

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

Code	Style
1	Coarse Flow
2	Fine Flow

Code	Adjustment Style
S	Screw Adjust

Code	Seals
Omit	Nitrile

Kit	Part Number
Knob	840208K
Nitrile Seal	SK10-2
Fluorocarbon Seal	SK10-2V

*Order Bodies Separately  
 See section BC*

<b>B10</b>	-	<b>2</b>	-	<b>8T</b>
10 size		2-Way Cavity		Port Size

Code	Porting / Body Material
8T	SAE-8 / Steel (5000 PSI)

**CV**  
Check Valves

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Shuttle Valves

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