

# Hydraulic Cartridge Systems

Threaded Cartridge Valves and Integrated Hydraulic Products



ENGINEERING YOUR SUCCESS.

**General Description**

2-Way Poppet Valves. For additional information see Technical Tips on pages SV1-SV5.

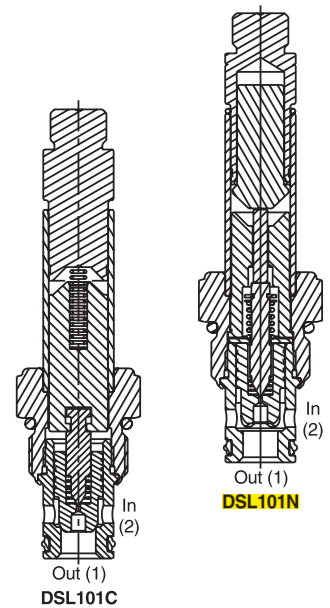
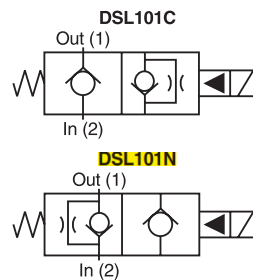


**Features**

- Replaceable, one piece encapsulated coils with minimal amperage draw
- Various coil terminations and voltages
- Various manual override options
- Fast response available, (CH and CHR) rated at 11 LPM (3.0 GPM)
- Polyurethane "D"-Ring
- All external parts zinc plated

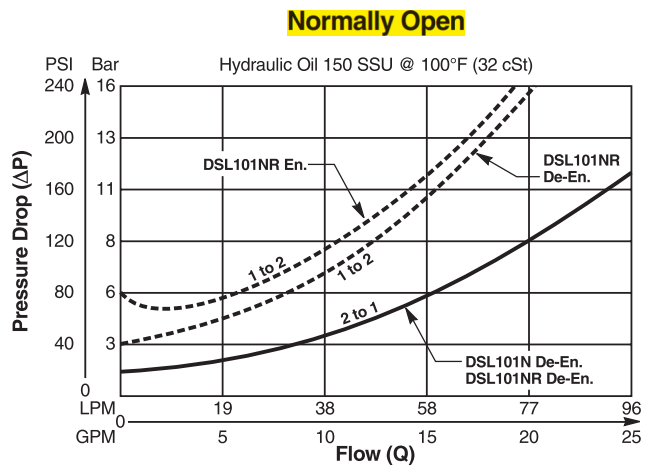
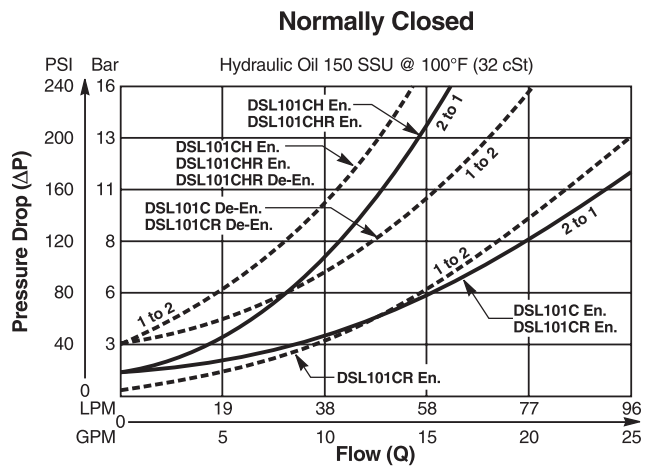
**Specifications**

Rated Flow	60 LPM (15 GPM)												
Maximum Inlet Pressure	250 Bar (3600 PSI)												
Leakage at 150 SSU (32 cSt)	5 drops/min. (.33 cc/min.)												
Minimum Operating Voltage	85% of rated voltage at 20°C (72°F).												
Response Time	<table border="1"> <thead> <tr> <th></th> <th>Energized</th> <th>De-Energized</th> </tr> </thead> <tbody> <tr> <td><b>C, CR</b></td> <td>80 ms</td> <td>150 ms</td> </tr> <tr> <td><b>CH, CHR</b></td> <td>50 ms</td> <td>50 ms</td> </tr> <tr> <td><b>N, NR</b></td> <td>35 ms</td> <td>175 ms</td> </tr> </tbody> </table>		Energized	De-Energized	<b>C, CR</b>	80 ms	150 ms	<b>CH, CHR</b>	50 ms	50 ms	<b>N, NR</b>	35 ms	175 ms
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Cartridge Material	All parts steel. All operating parts hardened steel.												
Operating Temp. Range/Seals	-35°C to +93°C ("D"-Ring) (-37°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	.20 kg (0.41 lbs.)												
Cavity	C10-2 (See BC Section for more details)												
Form Tool	Rougher None Finisher NFT10-2F												

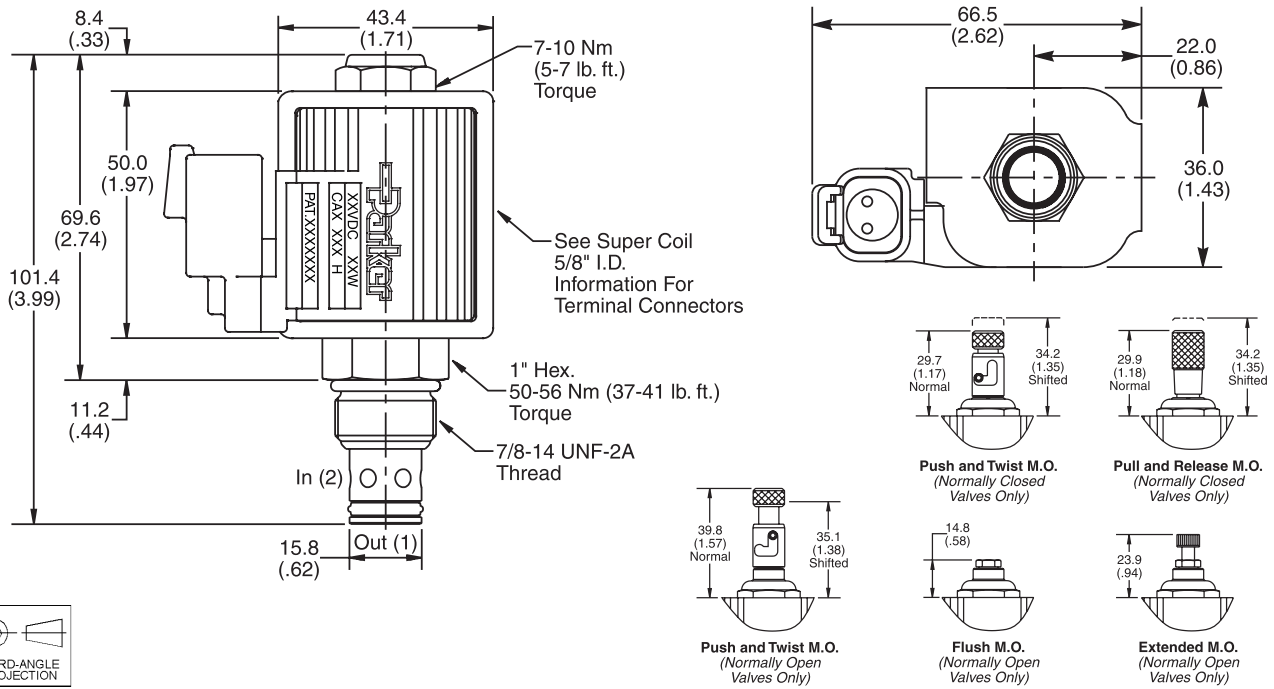


**Performance Curves**

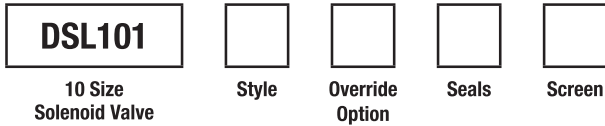
Pressure Drop vs. Flow (Through cartridge only)



**Dimensions** Millimeters (Inches)



**Ordering Information**



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

**Coil(s) sold separately.** Please see section CE of this catalog, 5/8" Super-Coil (CA series), for ordering information.

*Order Bodies Separately*  
 See section BC



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

Code / Style	Symbol
<b>C</b> Normally Closed Metered reverse flow	
<b>CH</b> Normally Closed Metered reverse flow (Fast response)	
<b>CHR</b> Normally Closed Free reverse flow (Fast response)	
<b>CR</b> Normally Closed Free reverse flow	
<b>N</b> <b>Normally Open</b> <b>Metered reverse flow</b>	
<b>NR</b> Normally Open Free reverse flow	

Code	Override Options
<b>Omit</b>	<b>None</b>
E	Push Type with Extended Rod (N.O. Only)
M	Push Type with Flush Rod (N.O. Only)
P	Pull & Release (N.C. Only)
T	Push & Twist (N.C. & N.O.)

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

Code	Screen
<b>Omit</b>	<b>None</b>
S	Screen

- 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
- Carpack Bodies
- BC
- Bodies & Cavities
- TD
- Technical Data