

Technical Information

- 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

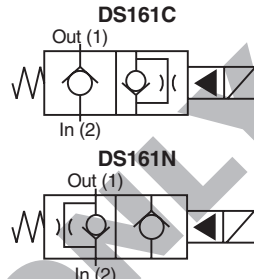
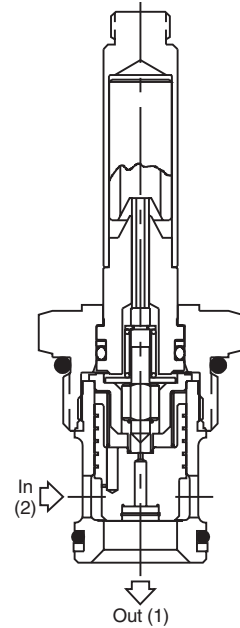
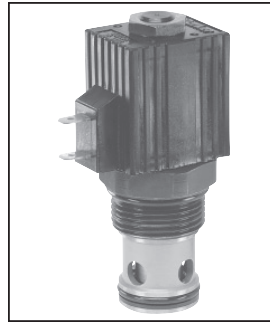
2-Way Poppet Valves. For additional information see Technical Tips on pages SV1-SV6.

Features

- Low hysteresis
- Replaceable, one piece encapsulated coils with minimal amperage draw
- Various coil terminations and voltages
- Various manual override options
- Fast response available, (CH) rated at 60 LPM (15 GPM)
- All external parts zinc plated

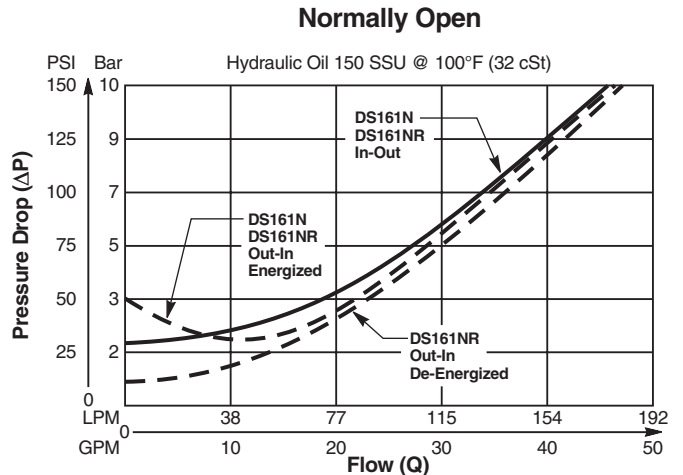
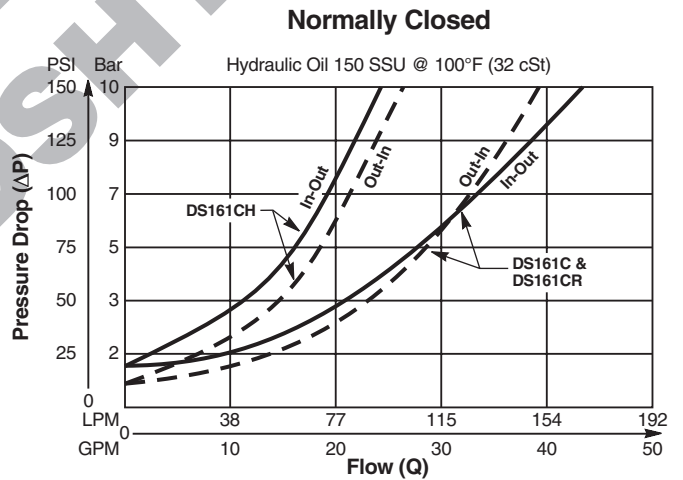
Specifications

Rated Flow	150 LPM (40 GPM)												
Maximum Inlet Pressure	210 Bar (3000 PSI)												
Leakage at 150 SSU (32 cSt)	20 drops/min. (1.33 cc/min.)												
Minimum Operating Voltage	85% of rated voltage at 20°C (72°F).												
Response Time	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td></td> <td>Energized</td> <td>De-Energized</td> </tr> <tr> <td>C, CR</td> <td>50 ms</td> <td>130 ms</td> </tr> <tr> <td>CH</td> <td>40 ms</td> <td>60 ms</td> </tr> <tr> <td>N, NR</td> <td>45 ms</td> <td>75 ms</td> </tr> </table>		Energized	De-Energized	C, CR	50 ms	130 ms	CH	40 ms	60 ms	N, NR	45 ms	75 ms
	Energized	De-Energized											
C, CR	50 ms	130 ms											
CH	40 ms	60 ms											
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Cartridge Material	All parts steel. All operating parts hardened steel.												
Operating Temp. Range/Seals	-40°C to +93.3°C (Nitrile) (-40°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	.34 kg (.75 lbs.)												
Cavity	C16-2 (See BC Section for more details)												
Form Tool	Rougher None Finisher NFT16-2F												

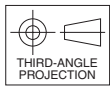
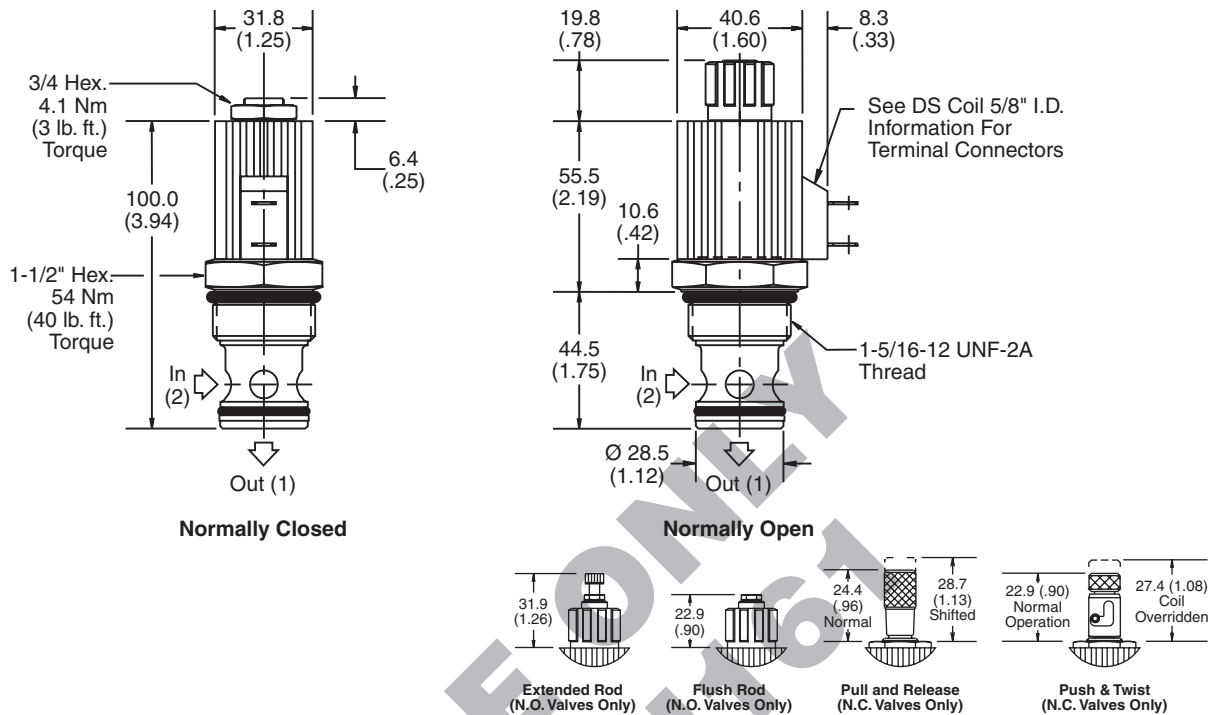


Performance Curves

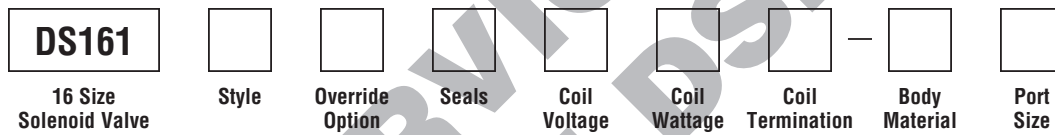
Pressure Drop vs. Flow (Through cartridge only)



Dimensions Millimeters (Inches)



Ordering Information



Code / Style	Diagram
C Normally Closed Metered reverse flow	
CH Normally Closed Metered reverse flow (Fast response)	
CR Normally Closed Free reverse flow	
N Normally Open Metered reverse flow	
NR Normally Open Free reverse flow	

Code	Override Options
Omit	None
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. Only)

Code	Seals / Kit. No.
Omit	Nitrile / (SK16-2)
V	Fluorocarbon / (SK16-2V)

Code	Coil Voltage
Omit	Without Coil
D012	12 VDC
D024	24 VDC
A120	120/110 VAC, 60/50 Hz
A240	240/220 VAC, 60/50 Hz

Code	Wattage
Omit	Without Coil
L	17 Watts
H	30 Watts

Code	Coil Termination
Omit	Without Coil
C	Conduit (AC Only)
D	DIN Plug Face
P	Dual Spade (DC Only)
S	Dual Screw (DC Only)
W	Dual Lead (DC Only)

See DS coil 5/8" I.D.

Code	Body Material
Omit	Steel
A	Aluminum

Code	Port Size	Body Part No.
Omit	Cartridge Only	
12T	SAE-12	(B16-2-*12T)
16T	SAE-16	(B16-2-*16T)
12B	3/4" BSPG	(B16-2-*12B)
16B	1" BSPG	(B16-2-16B)†

* Add "A" for aluminum, omit for steel.
 † Steel body only.