

**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**

4-Way Spool Valves. For additional information see Technical Tips on pages SV1-SV6.



**Features**

- High flow capacity with reduced space requirements
- Standard valve bodies and common cavities
- Replaceable, one piece encapsulated coils with minimal amperage draw
- Manual overrides, seal variations and other options available
- Oil immersed armature solenoid, no dynamic seals
- Variety of coil terminations and voltages
- Polyurethane "D"-Ring

**Specifications**

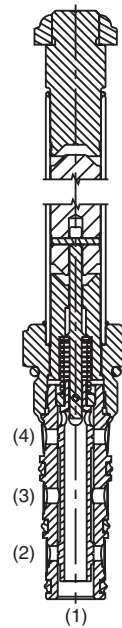
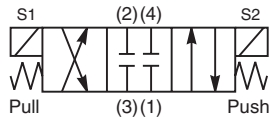
<b>Rated Flow</b>	<b>C2, C7, C9</b> 19 LPM (5 GPM) <b>C1, C4</b> 26 LPM (7 GPM)
<b>Maximum Inlet Pressure</b>	250 Bar (3600 PSI)
<b>Leakage at 150 SSU (32 cSt)</b>	160 cc/min. (10 in <sup>3</sup> /min.)
<b>Minimum Operating Voltage</b>	85% of rated voltage at 20°C (72°F).
<b>Response Time</b>	40 - 150 ms
<b>Cartridge Material</b>	All parts steel. All operating parts hardened steel.
<b>Operating Temp. Range/Seals</b>	-45°C to +132°C ("D"-Ring) (-50°F to +270°F) -34°C to +121°C (Nitrile) (-30°F to +250°F) -26°C to +204°C (Fluorocarbon) (-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>	.29 kg (.64 lbs.)
<b>Cavity</b>	C10-4
<b>Form Tool</b>	Rougher NFT10-4R Finisher NFT10-4F

**Curve Selection Chart**

SPOOL CODE	SPOOL SHIFTED				SPOOL CENTERED		
	3 to 2	3 to 4	2 to 1	4 to 1	3 to 1	2 to 1	4 to 1
C1	2	2	4	4	—	—	—
C2	1	1	2	2	5	4	3
C4	2	2	5	5	—	4	4
C7	1	1	2	2	5	—	3
C9	1	1	2	2	5	—	—



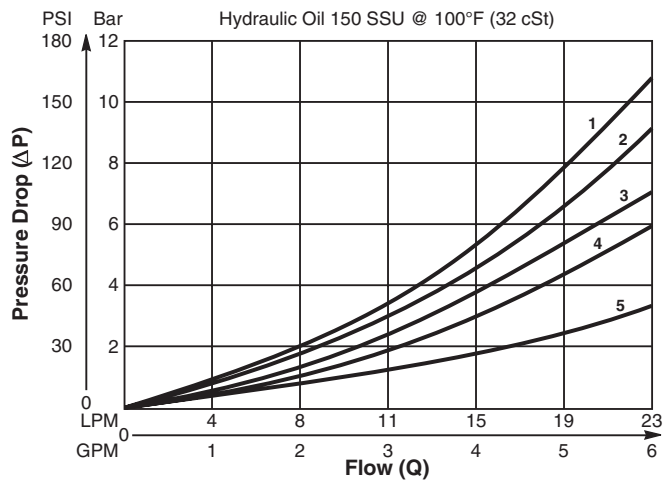
DSL105C1



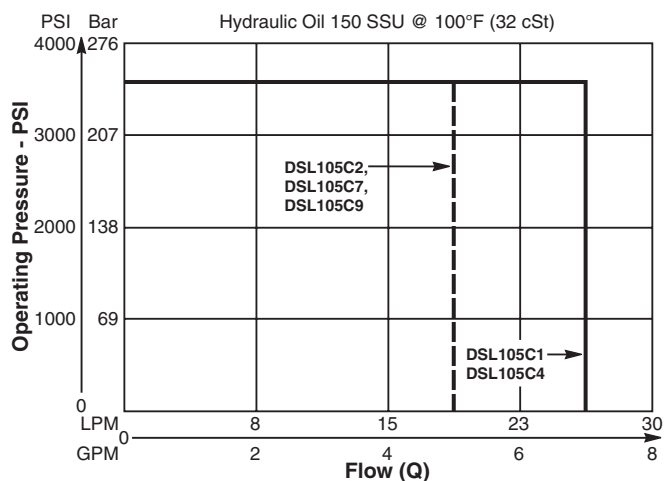
DSL105C1

**Performance Curves**

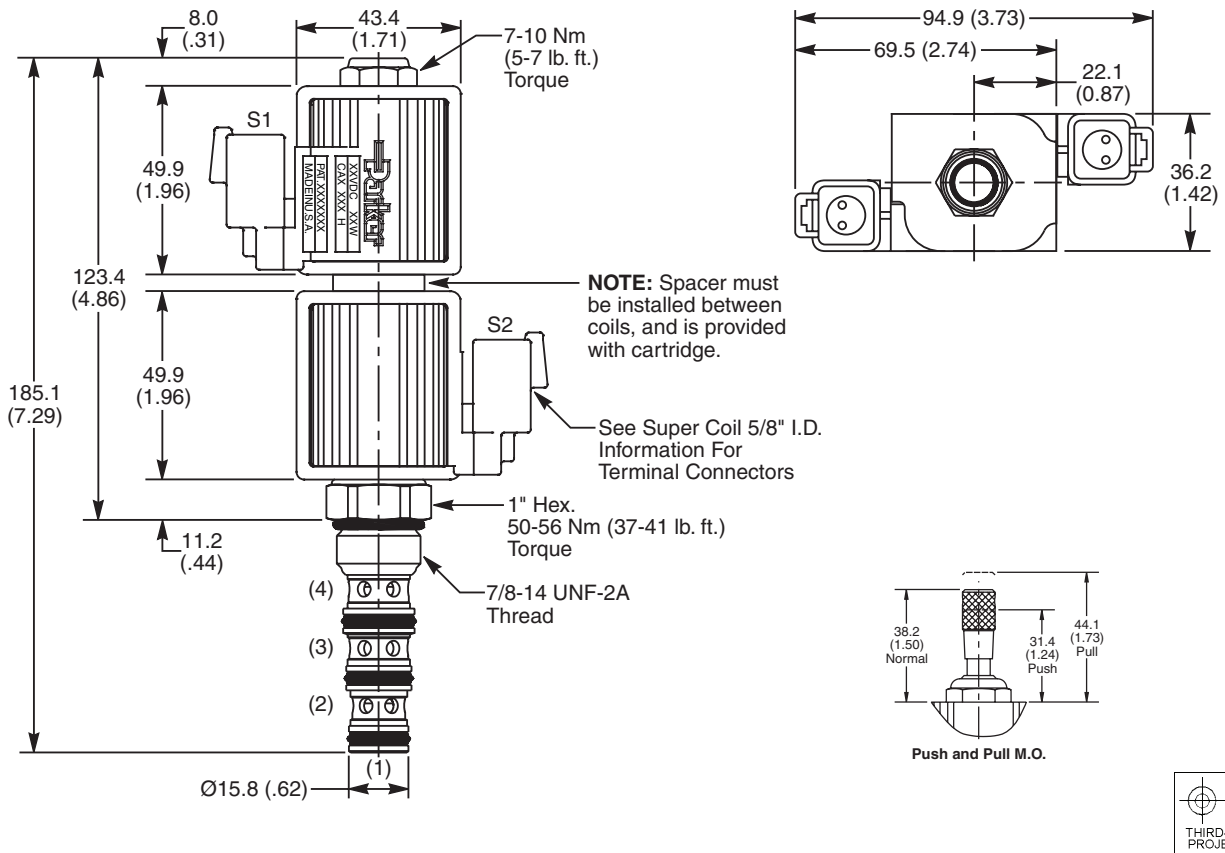
**Pressure Drop vs. Flow (Through cartridge only)**



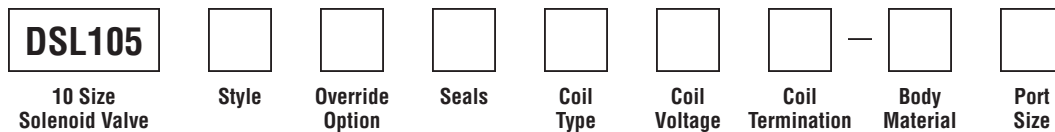
**Shift Limit Characteristics (Min. Operating Voltage)**



**Dimensions** Millimeters (Inches)



**Ordering Information**



Code	Style
C1	
C2	
C4	
C7	
C9	

Code	Override Options
Omit	None
M	Push/Pull

Code	Seals / Kit. No.
Omit	"D"-Ring / (SK10-4)
N	Nitrile / (SK10-4N)
V	Fluorocarbon / (SK10-4V)

Code	Coil Type
Omit	Without Coil
SP*	Super Coil - 28 Watts

\*Recommended

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

SP*	Coil Termination
Omit	Without Coil
A	Amp Jr. Timer†
C	Conduit With Leads
D	DIN Plug Face
H	Molded Deutsch†
L	Dual Lead Wire†
PF	Packard Female†
PM	Packard Male†
S	Dual Spade†

\*Recommended  
 †DC Only

Code	Body Material
Omit	Steel
A	Aluminum

Code	Port Size	Body Part No.
Omit	Cartridge Only	
6T	SAE-6	(B10-4-*6T)
8T	SAE-8	(B10-4-*8T)

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