

**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

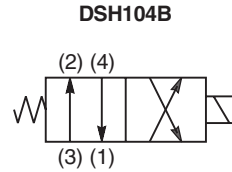
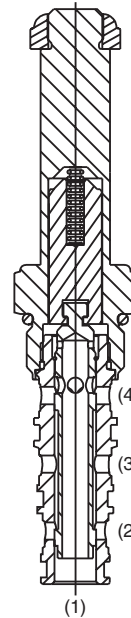
**General Description**

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
- One-piece encapsulated coil with minimal amperage draw
- Manual overrides, seal variations and other options available
- No dynamic seals
- Variety of coil terminations
- Polyurethane "D"-Ring eliminates need for backup rings
- Nylon inserted jam-nut provides secure holding in high vibration applications
- All external parts zinc plated



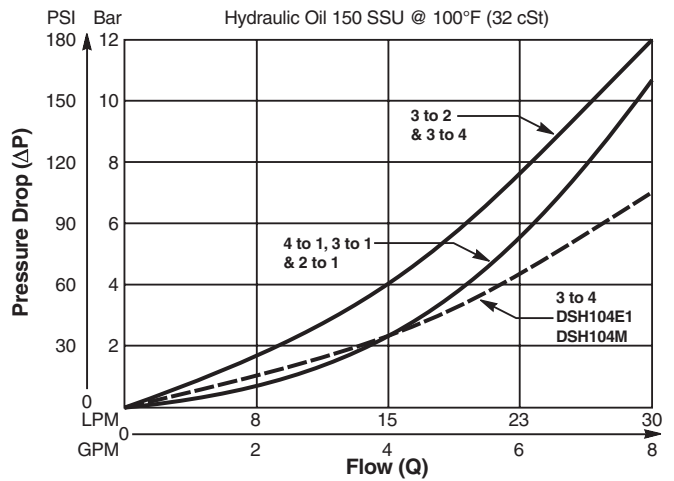
DSH104B

**Specifications**

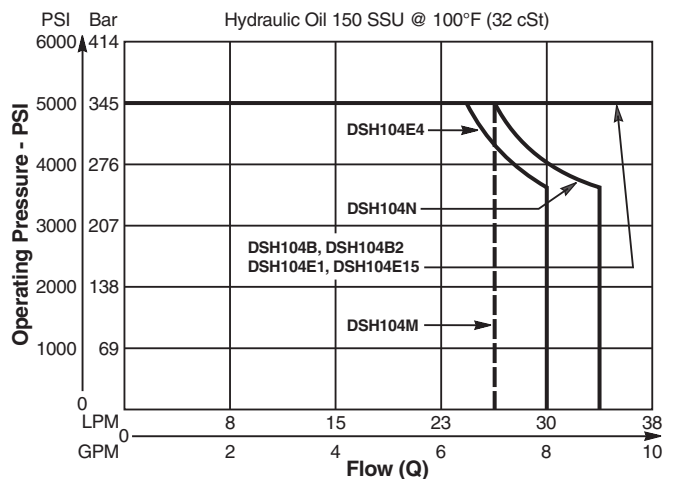
<b>Rated Flow</b>	25 - 38 LPM (6.5 - 10 GPM) See Shift Limit Characteristics
<b>Maximum Inlet Pressure</b>	350 Bar (5000 PSI)
<b>Leakage at 150 SSU (32 cSt)</b>	160 cc/min (10 in <sup>3</sup> /min) DSH104B - 320 cc/min (19.5 in <sup>3</sup> /min)
<b>Minimum Operating Voltage</b>	85% of rated voltage at 20°C (72°F).
<b>Response Time</b>	Energized - 30 - 60 ms De-energized - 30 - 60 ms
<b>Cartridge Material</b>	All parts steel. All operating parts hardened steel.
<b>Operating Temp. Range/Seals</b>	-45°C to +93.3°C ("D"-Ring) (-50°F to +200°F) -31.7°C to +121.1°C (Fluorocarbon) (-25°F to +250°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 Code 16/13, SAE Class 4 or better
<b>Approx. Weight</b>	.20 kg (.44 lbs.)
<b>Cavity</b>	C10-4 (See BC Section for more details)
<b>Form Tool</b>	Rougher NFT10-4R Finisher NFT10-4F

**Performance Curves**

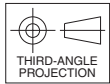
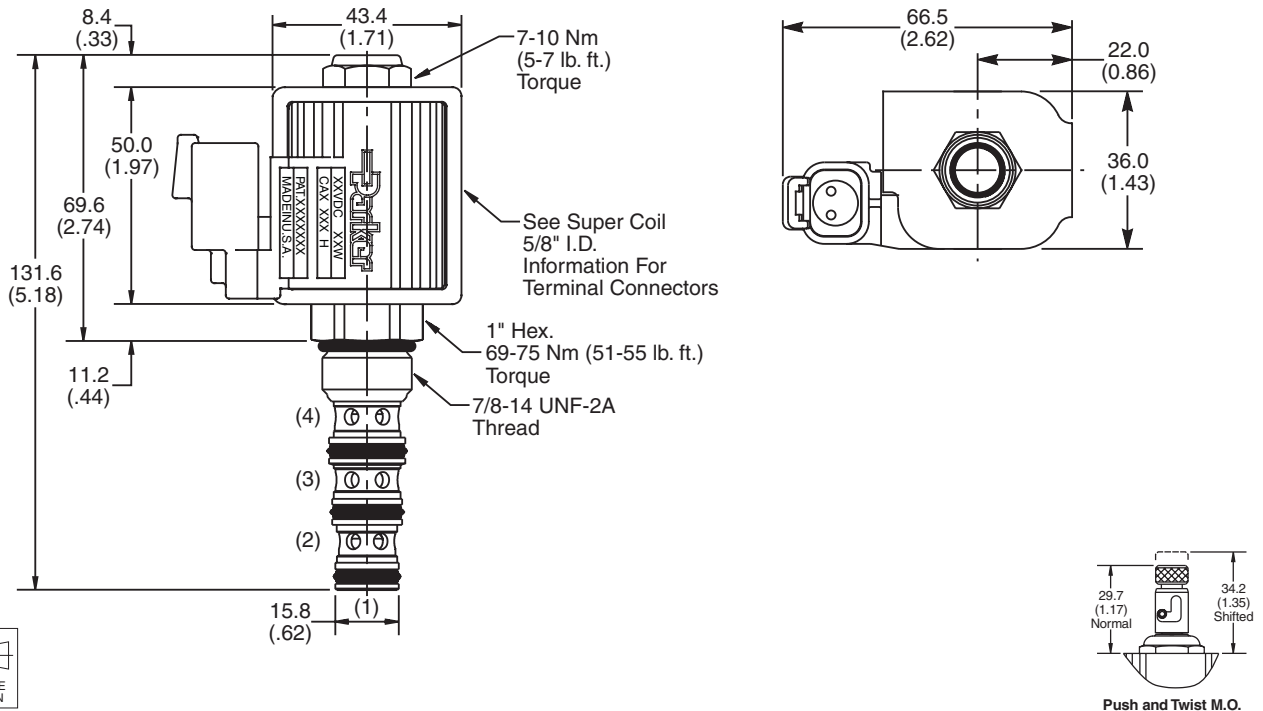
**Pressure Drop vs. Flow (Through cartridge only)**



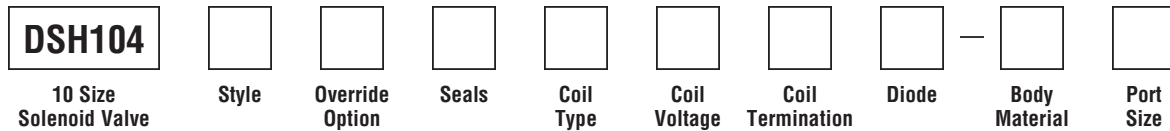
**Shift Limit Characteristics (Min. Operating Voltage)**



**Dimensions** Millimeters (Inches)



**Ordering Information**



Code	Style
B	
B2	
E1	
E4	
E15	
M	
N	

Code	Override Options
Omit	None
T	Push & Twist

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
A240	240/220 VAC, 60/50 Hz

SP*	Coil Termination
Omit	Without Coil
C	Conduit With Leads
D	DIN Plug Face
A	Amp Jr. Timert†
S	Dual Spade†
L	Dual Lead Wire†
LS	Sealed Lead Wire†
H	Molded Deutsch†

\*Recommended  
 †DC Only

Code	Diode
Omit	None
R	Diode

Code	Body Material
Omit	Steel
A	Aluminum

Code	Port Size	Body Part No.
Omit	Cartridge Only	
6P	3/8" NTPF	(B10-4-*6P)
6T	SAE-6	(B10-4-*6T)
8T	SAE-8	(B10-4-*8T)
6B	3/8" BSPG	(B10-4-6B)†

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

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