

## General Description

4-Way Spool Valves. For additional information see Technical Tips on pages SV1-SV5.



## 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

## Specifications

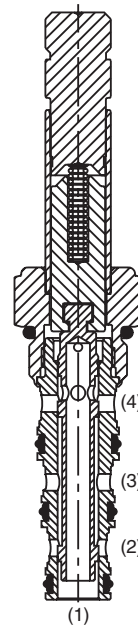
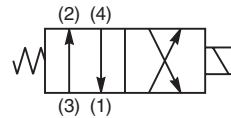
|                               |                                                                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Flow                    | 11-15 LPM (3-4 GPM)<br>See Shift Limit Characteristics                                                                                                  |
| Maximum Inlet Pressure        | 250 Bar (3600 PSI)                                                                                                                                      |
| Leakage at 150 SSU (32 cSt)   | 160 cc/min. (10 in <sup>3</sup> /min.)<br>at 250 Bar (3600 PSI)                                                                                         |
| Minimum Operating Voltage     | 85% of rated voltage at 20°C (72°F).                                                                                                                    |
| Response Time                 | Energized - 50 ms<br>De-energized - 30 ms                                                                                                               |
| Cartridge Material            | All parts steel. All operating parts hardened steel.                                                                                                    |
| Operating Temp. Range/Seals   | -37°C to +93°C ("D"-Ring)<br>(-35°F to +200°F)<br>-34°C to +121°C (Nitrile)<br>(-30°F to +250°F)<br>-26°C to +204°C (Fluorocarbon)<br>(-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,<br>SAE Class 4                                                                                                                       |
| Approx. Weight                | .13 kg (.29 lbs.)                                                                                                                                       |
| Cavity                        | C08-4<br>(See BC Section for more details)                                                                                                              |
| Form Tool                     | Rougher NFT08-4R<br>Finisher NFT08-4F                                                                                                                   |

## Curve Selection Chart

| SPOOL CODE | NEUTRAL |        |        |        |        | SHIFTED |        |        |        |        |
|------------|---------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
|            | 4 to 1  | 3 to 2 | 2 to 1 | 3 to 1 | 3 to 4 | 4 to 1  | 3 to 2 | 2 to 1 | 3 to 1 | 3 to 4 |
| B          | 4       | 3      | —      | —      | —      | —       | —      | 2      | —      | 4      |
| E1         | —       | —      | —      | —      | —      | —       | —      | 2      | —      | 3      |
| M          | —       | —      | 3      | —      | 1      | —       | —      | —      | —      | —      |
| N          | —       | —      | —      | —      | —      | 4       | 3      | —      | —      | —      |
| M9         | —       | —      | 3      | —      | 1      | —       | —      | —      | 4      | —      |



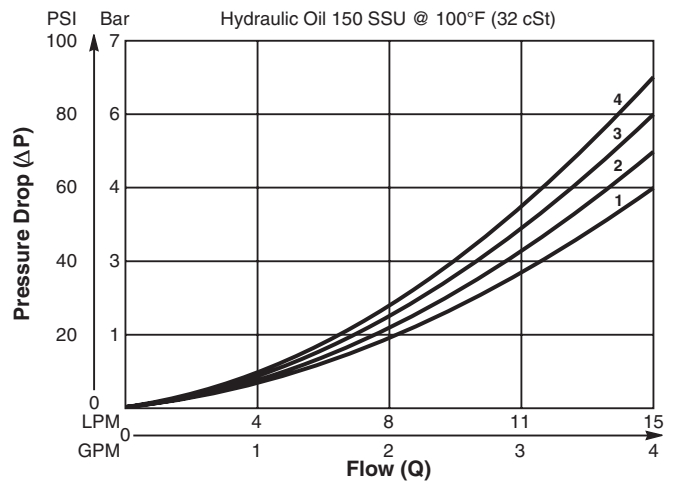
DSL084B



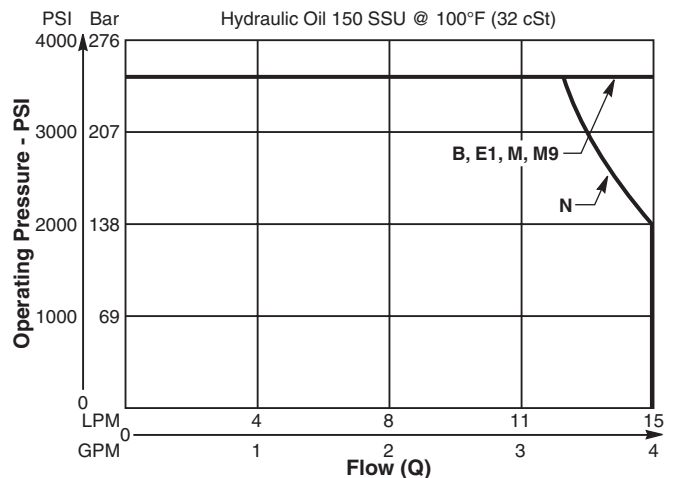
DSL084B

## Performance Curves

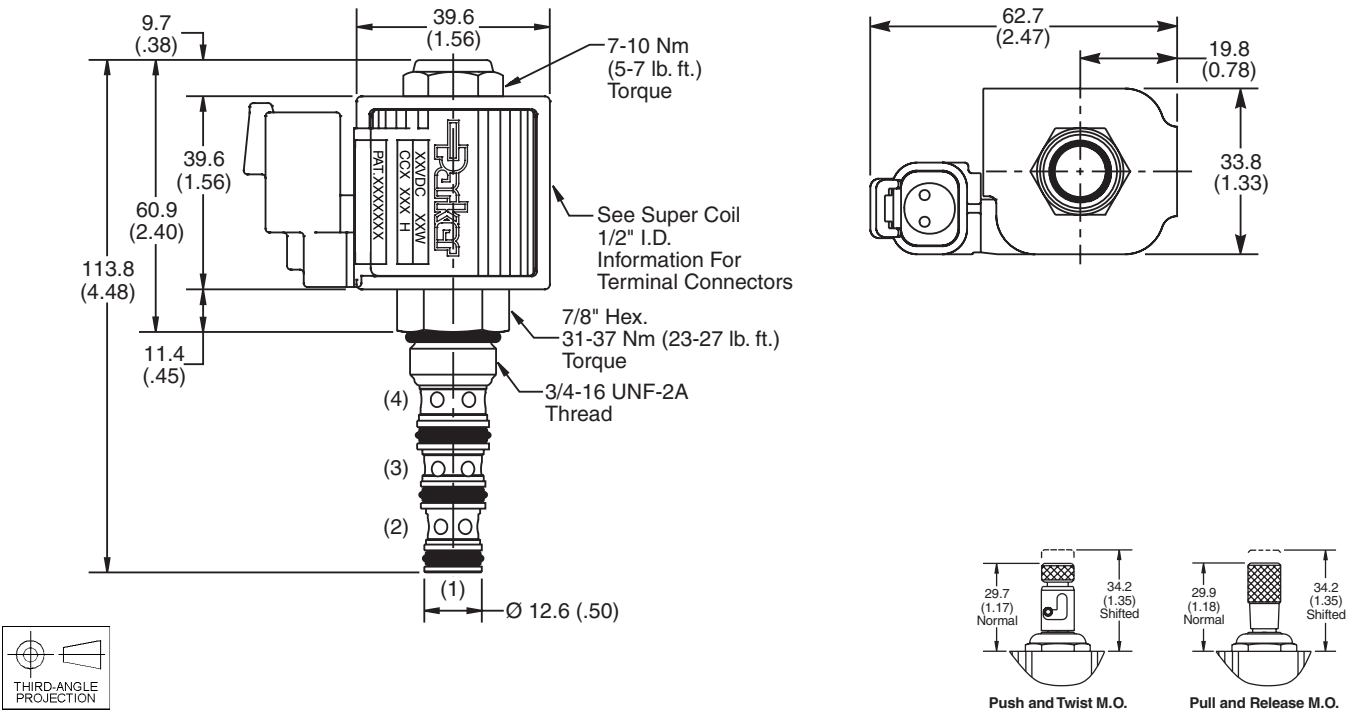
### Pressure Drop vs. Flow (Through cartridge only)



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



Dimensions    Millimeters (Inches)



Ordering Information

|                        |       |                 |       |
|------------------------|-------|-----------------|-------|
| <b>DSL084</b>          |       |                 |       |
| 08 Size Solenoid Valve | Style | Override Option | Seals |

**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, 1/2" Super-Coil (CC series), for ordering information.

| Code | Style |
|------|-------|
| B    |       |
| N    |       |
| E1   |       |
| M    |       |
| M9   |       |

| Code | Override Options |
|------|------------------|
| Omit | None             |
| P    | Pull & Release   |
| T    | Push & Twist     |

| Code | Seals / Kit No.          |
|------|--------------------------|
| Omit | "D"-Ring / (SK08-4)      |
| N    | Nitrile (SK08-4)         |
| V    | Fluorocarbon / (SK08-4V) |

Order Bodies Separately  
See section BC

|            |   |              |   |           |
|------------|---|--------------|---|-----------|
| <b>B08</b> | — | <b>4</b>     | — |           |
| 08 size    |   | 4-Way Cavity |   | Port Size |

| Code | Port Size / Body Material    |
|------|------------------------------|
| 6T   | SAE-6 / Steel (5000 PSI)     |
| A6T  | SAE-6 / Aluminium (3000 PSI) |

|                      |
|----------------------|
| 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       |