

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** Bore & Cavities
- TD** Technical Data

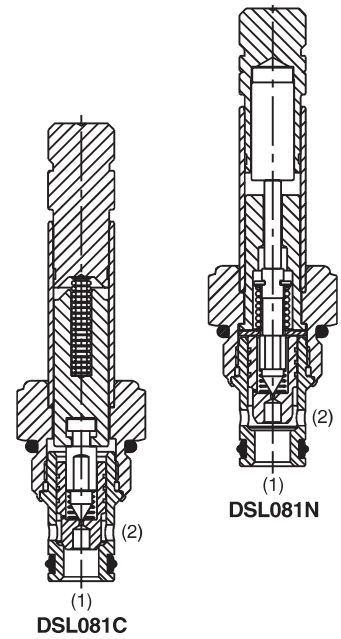
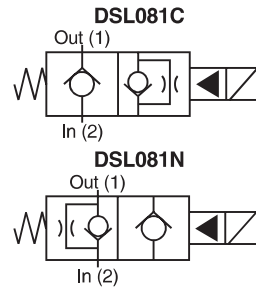
General Description

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



Features

- Replaceable, one piece encapsulated, coils with minimal amperage draw
- Variety of coil terminations and voltages
- Variety of manual override options available
- Fast response available, (CH and CHR) rated at 15 LPM (4.0 GPM)
- Polyurethane "D"-Ring eliminates need for backup rings
- Spherical poppet for low leakage
- Nylon inserted jam-nut provides secure holding in high vibration applications
- All external parts zinc plated

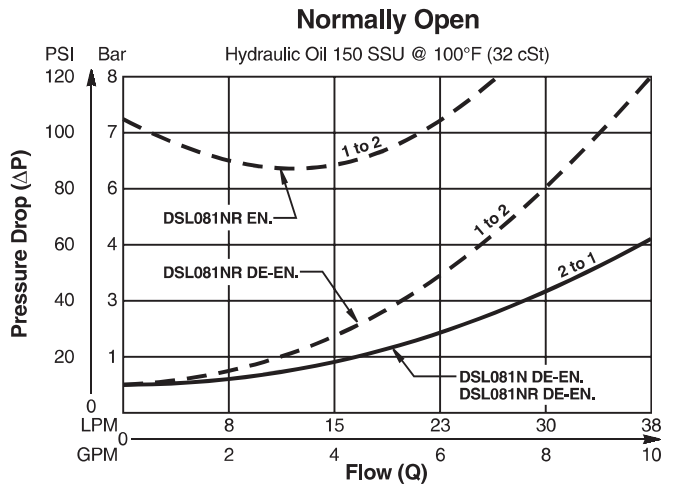
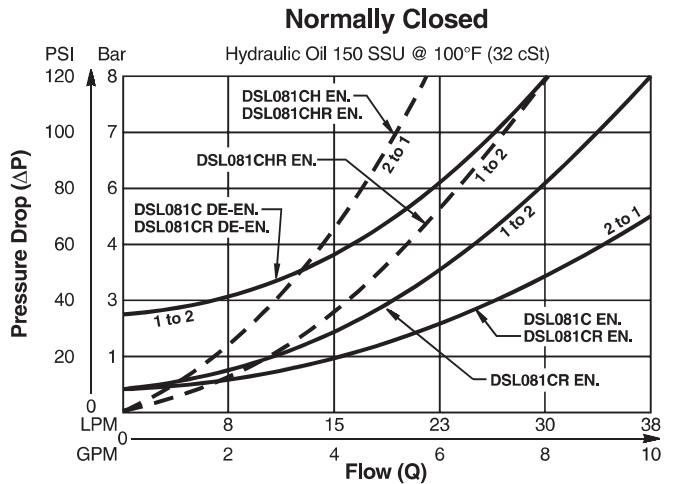


Specifications

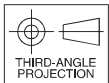
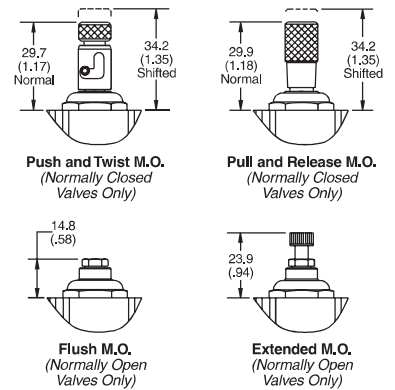
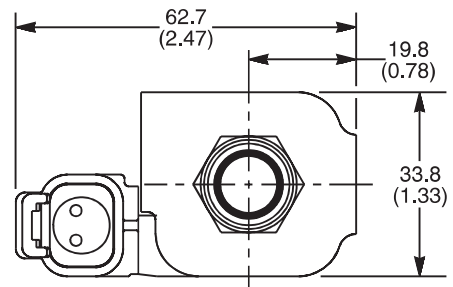
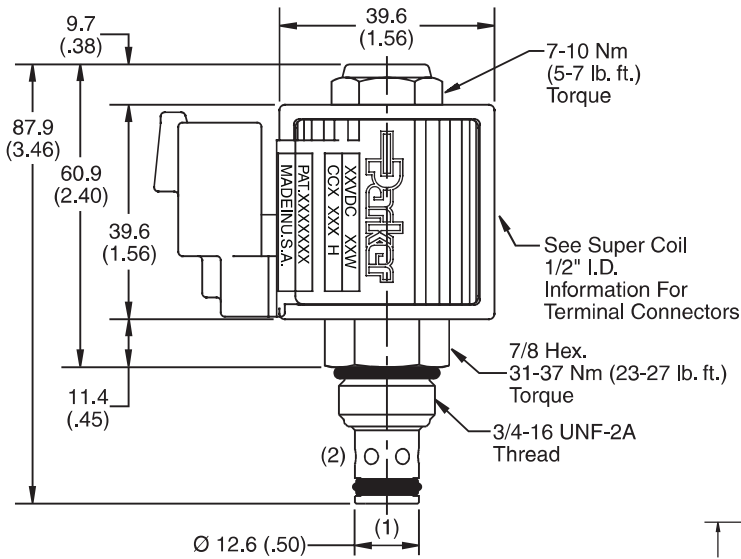
| | | | |
|--------------------------------------|---|------------------|---------------------|
| Rated Flow (At 70 PSI ΔP) | 30 LPM (8 GPM) | | |
| Maximum Inlet Pressure | 250 Bar (3600 PSI) | | |
| Leakage at 150 SSU (32 cSt) | 5 drops/min. (.33 cc/min.) | | |
| Minimum Operating Voltage | 85% of rated voltage at 20°C (72°F). | | |
| Response Time | | Energized | De-Energized |
| | C, CR | 50 ms | 50 ms |
| | CH, CHR | 30 ms | 50 ms |
| | N, NR | 50 ms | 40 ms |
| Cartridge Material | All parts steel. All operating parts hardened steel. | | |
| Operating Temp. Range/Seals | -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) | | |
| 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 | .11 kg (.25 lbs.) | | |
| Cavity | C08-2 (See BC Section for more details) | | |
| Form Tool | Rougher | None | |
| | Finisher | NFT08-2F | |

Performance Curves

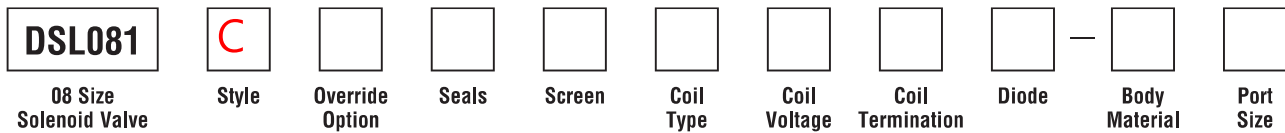
Pressure Drop vs. Flow (Through cartridge only)



Dimensions Millimeters (Inches)



Ordering Information



| Code / Style | Diagram |
|---|---------|
| C Normally Closed Metered reverse flow | |
| CH Normally Closed Metered reverse flow (Fast response) | |
| CHR Normally Closed Full 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. & N.O.) |

| Code | Seals / Kit No. |
|-------------|--------------------------|
| Omit | "D"-Ring / (SK08-2) |
| N | Nitrile / (SK08-2N) |
| V | Fluorocarbon / (SK08-2V) |

| Code | Screen |
|-------------|--------|
| Omit | None |
| S | Screen |

| Code | Coil Type |
|-------------|-----------------------|
| Omit | Without Coil |
| SP* | Super Coil - 19 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 | 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 | |
| 4P | 1/4" NPTF | (B08-2-*4P) |
| 6P | 3/8" NPTF | (B08-2-*6P) |
| 4T | SAE-4 | (B08-2-*4T) |
| 6T | SAE-6 | (B08-2-*6T) |
| 6B | 3/8" BSPG | (B08-2-*6B) |

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