

Technical Information

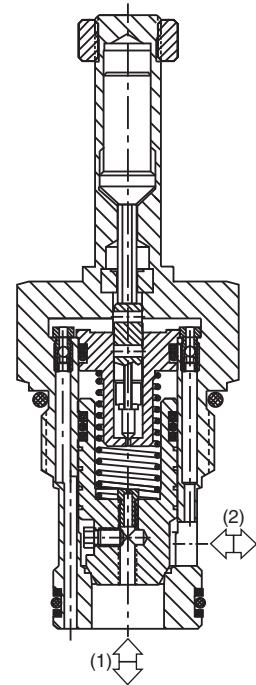
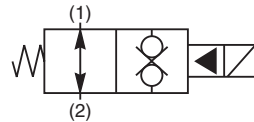
- CV** Check Valves
- SH** Shuttle Valves
- LM** Load/Motor Controls
- FC** Flow Controls
- PC** Pressure Controls
- LE** Logic Elements
- DC** Directional Controls
- MV** Manual Valves
- SV** Solenoid Valves
- PV** Proportional Valves
- CE** Coils & Electronics
- BC** Bodies & Cavities
- TD** Technical Data

General Description

2-Way, 2 Position, Normally Open, Bi-Directional Poppet Valve. For additional information see Technical Tips on pages SV1-SV6.

Features

- Built-in thermal relief set at 36 Bar (500 PSI) above rated pressure
- One piece cartridge housing ensures internal concentricity
- Coil: Waterproof, hermetically sealed, requires no O'Rings; Coil is interchangeable with O2 and O4 series poppet valves; Symmetrical coil can be reversed without affecting performance.

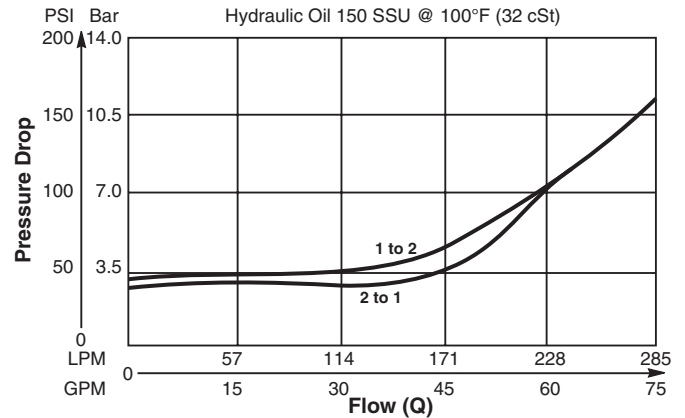


Specifications

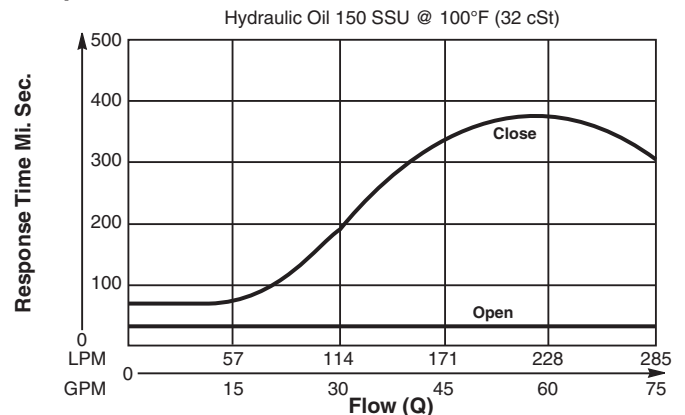
| | |
|--------------------------------------|--|
| Rated Flow | 285 LPM (75 GPM) |
| Maximum Inlet Pressure | 85 210 Bar (3000 PSI) 86 350 Bar (5000 PSI) |
| Leakage at 150 SSU (32 cSt) | 5 drops/min. (.33 cc/min.) |
| Minimum Operating Voltage | 85% of rated voltage at 20°C (72°F). |
| Response Time | See Performance Curves |
| Cartridge Material | All parts steel. All operating parts hardened steel. |
| Operating Temp. Range/Seals | -34°C to +121°C (Nitrile) (-30°F to +250°F) -26°C to +204°C (Fluorocarbon) (-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, SAE Class 4 |
| Approx. Weight | 0.4 kg (.88 lbs.) |
| Cavity | C16-2 (See BC Section for more details) |

Performance Curves

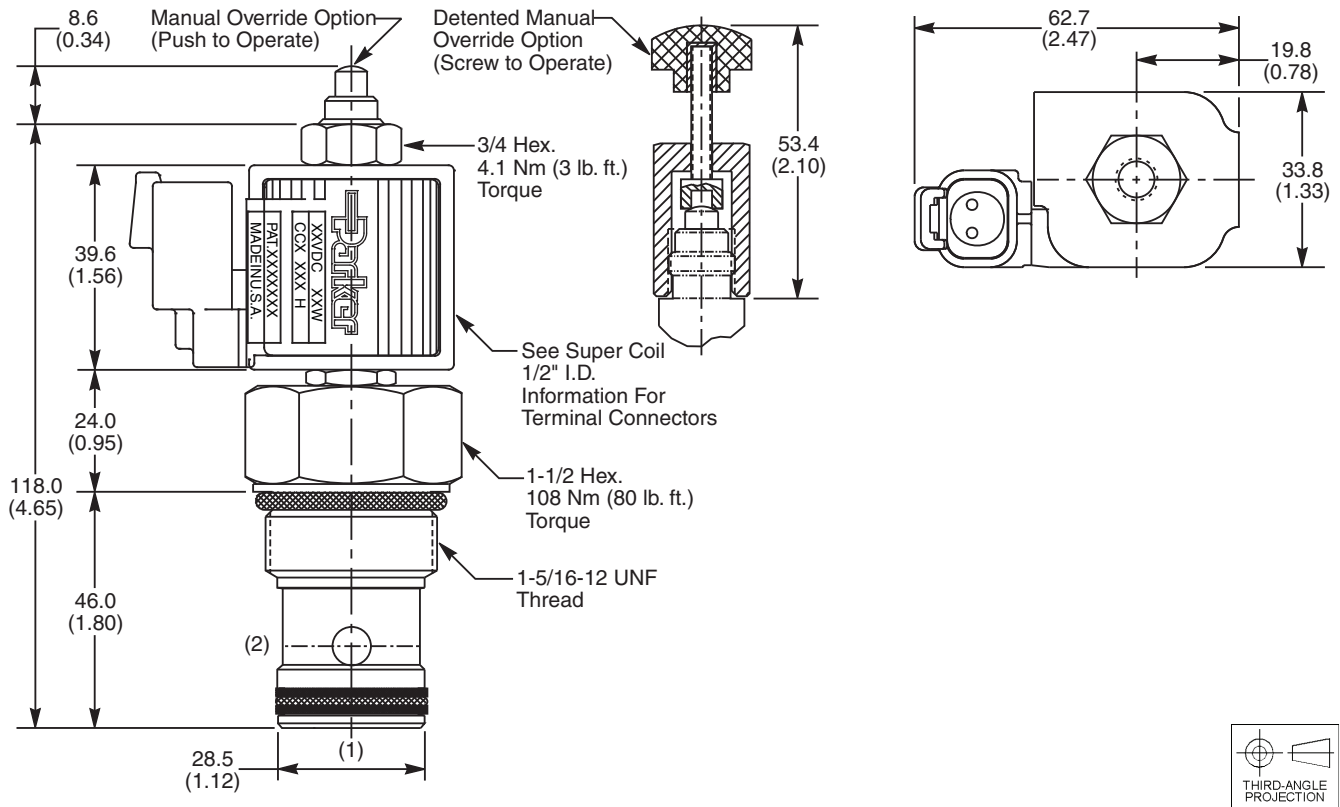
Pressure Drop vs. Flow (Through cartridge only)



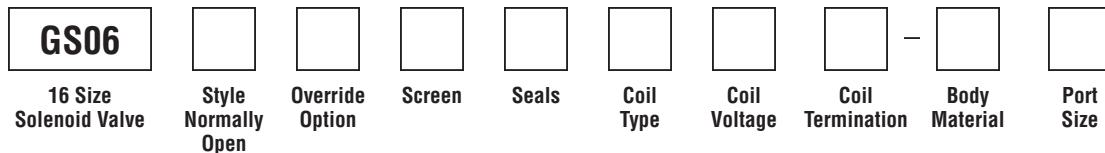
Response Time vs. Flow



Dimensions Millimeters (Inches)



Ordering Information



| Code | Style |
|------|---------------------------|
| 85 | Standard ('SS' Coil) |
| 86 | High Pressure ('SP' Coil) |

| Code | Seals / Kit No. |
|------|--------------------------------------|
| N | Nitrile / Buna-N (Std.) (SK30089N-1) |
| V | Fluorocarbon / (SK30089V-1) |

| Code | 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* |

| Code | Body Material |
|------|---------------|
| Omit | Steel |
| A | Aluminum |

| Code | Override Options |
|------|--------------------------|
| 0 | None |
| 1 | Manual Override |
| 2 | Detented Part No. 900690 |

| Code | Coil Type |
|------|-----------------------|
| Omit | Without Coil |
| SS | Super Coil - 14 Watts |
| SP | Super Coil - 19 Watts |

| Code | Port Size | Body Part No. |
|------|----------------|---------------|
| Omit | Cartridge Only | |
| 16T | SAE-16 | (B16-2-*16T) |

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

| Code | Screen |
|------|--------|
| 0 | None |

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

See Super Coil 1/2" I.D.
 *DC Only