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3 Way Solenoid Valves for High Pressure Hydraulic Applications

Part #: DSL083B



REGIONAL - Parker's direct acting 3-way, 2-position spool-type to cover a wide range of flows up to 57 lpm (15 gpm) and pressures as high as 350 bar (5000 psi). These screw-in cartridge valves are fast to respond to coil voltage.

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Technical Specifications

Division:	Hydraulic Valve Systems Division	Cavity Size:	C08-3
Flow Rate:	4 GAL/MIN, 15 L/MIN	Function:	3-way
Flow Rate:	4 gal/min, 15 L/min	Override Functionality:	N/A
Maximum Inlet Pressure Rating:	3600 PSI, 250 BAR	For Fluid Type:	Mineral-based or synthetic hydraulic fluids
Configuration:	Normally Closed, Selector	Maximum Kinematic Viscosity:	45-2000 SSU (6 to 420 cSt)
Maximum Inlet Pressure Rating:	3600 psi, 250 bar	Filter Efficiency Rating:	ISO 4406 18/16/13, SAE Class 4
Actuation Type:	Electrical	Valve Material:	All parts steel. All operating parts hardened steel
Configuration:	Normally Closed, Selector	Installation Torque:	23 to 27 lb-ft, 31 to 37 Nm
Flow Direction:	2-1 De-energized, 2-3 Energized	Coil Nut Tightening Torque:	5 to 7 lb-ft, 7 to 10 Nm
Actuation Type:	Electrical	Operating Temperature:	-37 to +93 °C, -35 to +200 °F
Seal Material:	D-Ring (Standard)	Maximum Operating Temperature:	+200 °F, +93 °C
Flow Direction:	2-1 De-energized, 2-3 Energized	Minimum Operating Temperature:	-35 °F, -37 °C
Seal Material:	D-Ring (Standard)	Coil Type:	1/2" Super Coil
Maximum Flow Rate:	4 gal/min, 15 L/min	Input Voltage:	85% of rated voltage at 72°F (20°C) min
Mounting Type:	Screw in cartridge valve	Response Time:	50 ms
Operation Type:	Solenoid operated	Weight:	0.28 lb, 0.13 kg
Maximum Operating Pressure:	3600 psi, 250 bar	Body Material:	N/A
Leak Rate:	180 @ 3600 PSI (250 BAR) cm ³ /min		

[Safety Warning](#)

Item Information

Parker's direct acting 3-way, 2-position spool-type solenoid valves feature a proven design that ensures reliable and predictable performance with low pressure drop and minimal hysteresis. These valves can operate with hydraulic system flows as high as 57 lpm (15 gpm) and pressures up to 350 bar (5000 psi) with normally-open, normally closed, or selector configurations available. Parker's 3-way, 2-position spool-type solenoid valves are ideal for switching or unloading applications that don't necessarily require low poppet style leakage, but instead easy solenoid driven directional controls. These valves can be used on a wide range of machinery within the mobile, industrial, or manufacturing markets.

Markets:

- Aerial
- Agriculture
- Construction
- Material Handling
- Miscellaneous Industrial
- Miscellaneous Manufacturing
- Miscellaneous Mobile

Features/Benefits:

- Replaceable one-piece coils with low amp draw
- High flow capacity
- Manual override options
- Standard bodies and cavities
- No dynamic seals
- Low hysteresis
- All external parts zinc plated

Applications:

- Switching applications
- Unloading applications
- Diverter applications

Additional Technical Insight:

Direct acting spool valves are fast to respond to coil voltage and will allow flow passage between 2 ports while blocking the remaining port. Some leakage will be present due to spool clearances.

CAD Drawings + Files



Related Documents



Related Products



**3 Way Pilot Operated
Directional Control
Valves**

1" DS Coil

1/2" Super Coil

5/8" Super Coil

Cartpak Bodies





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