

## DSV08-47 4-Way, 3-Position Solenoid Cartridge Valve

### Description:

Solenoid Operated 4-Way, 3-Position Directional Control screw-in-cartridge, direct acting, spool type. Suited for all 4-way hydraulic circuit applications where solenoid actuation is desired.

### Operation:

This valve is direct actuated and requires no minimum hydraulic pressure for operation and is spring centered to the neutral position.

### Features:

- Hardened, precision ground parts for durability.
- Efficient wet-armature construction
- Continuous-duty solenoid.
- Industry standard C08-4 cavity. Compact Size
- Manual override option
- Optional coil voltages and terminations.

### Ratings:

Nominal Rated Flow: 3.5 GPM (13.2 lpm)

Operating Pressure: 3,000 PSI (210 bar), Maximum operating pressure on port 1 is 290 PSI (20 bar)

Operating Temperature: -22 to 250°F (-30 to 120°C)

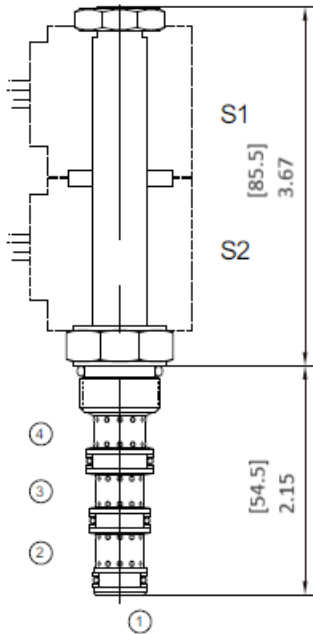
Leak Rate: Less than 164cc (10 in<sup>3</sup>) per minute

Approx. Weight: .5 lbs. (0.23 kg)

Fluids: Mineral-based fluids with viscosities of 7.4 to 420 cSt.

Valve Hex size: 7/8" (22.2 mm)

Valve Installation Torque: 20-24 lbf ft.



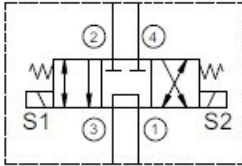
Seal Replacement Kits, External:	
SRK-8504N	Buna-N
SRK-8504V	Fluorocarbon (Viton)
Note: Alternate materials available, contact Doering.	

**See Page 2 for Functional Symbols and Ordering Information**

# DSV08-47 4-Way, 3-Position Solenoid Cartridge Valve

## Functional Symbol

FS-A

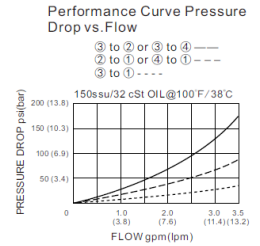


### Operation FS-A:

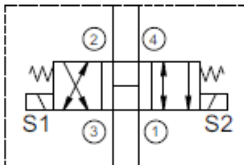
When de-energized, the valve blocks cylinder ports, while allowing flow from 3 to 1.

When coil S1 is energized, flow is allowed from 3 to 2, and from 4 to 1.

When Coil S2 is energized, flow is allowed from 3 to 4 and from 2 to 1.



FS-B

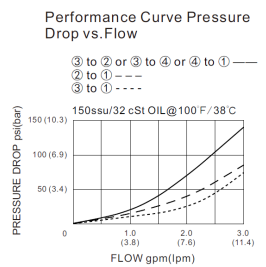


### Operation FS-B:

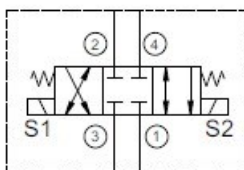
When de-energized, the valve has all ports connected.

When coil S1 is energized, flow is allowed from 3 to 4, and from 2 to 1.

When Coil S2 is energized, flow is allowed from 3 to 2 and from 4 to 1.



FS-C

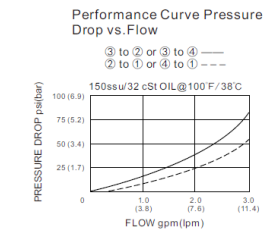


### Operation FS-C:

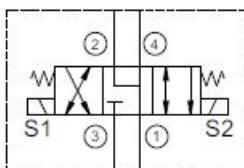
When de-energized, the valve blocks all ports.

When coil S1 is energized, flow is allowed from 3 to 4, and from 2 to 1.

When Coil S2 is energized, flow is allowed from 3 to 2 and from 4 to 1.



FS-D

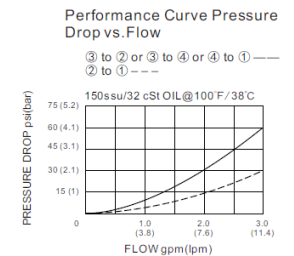


### Operation FS-D:

When de-energized, the valve blocks inlet port 3, while allowing flow from 2 and 4 to 1.

When coil S1 is energized, flow is allowed from 3 to 4, and from 2 to 1.

When Coil S2 is energized, flow is allowed from 3 to 2 and from 4 to 1.



## Ordering Information:

**DSV08 - 47B - M - N - 24 HD**

Model	Type	Functional Symbol	Manual Emergency	Seal Material	Voltage	Coil Connection	Current Type
<b>DSV08</b>	<b>47</b> 4-Way, 3-Pos	<b>A</b> FS-A	<b>Blank</b> No Manual	<b>N</b> Buna-N	<b>12</b> 12V	<b>H</b> DIN43650	<b>D</b> Direct Current
		<b>B</b> FS-B	<b>M</b> Manual Operator	<b>V</b> Viton	<b>24</b> 24V	<b>F</b> Deutch	<b>A</b> Alternating Current
		<b>C</b> FS-C		<b>R</b> EPDM	<b>110</b> 110V	<b>D</b> Dual Lead	
		<b>D</b> FS-D			<b>220</b> 220V		