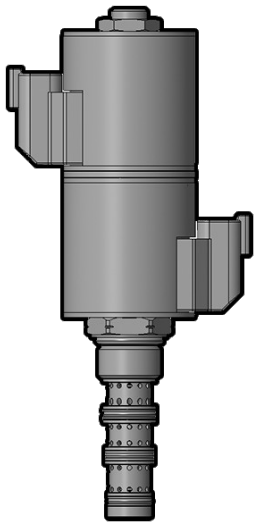
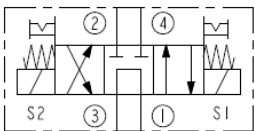




## Overview



### Symbol



### Description

The HSV10-47A is a high pressure, 4 port, 3 position, spool type, screw-in, cartridge style, hydraulic solenoid valve.

### Operation

When de-energized, the HSV10-47A blocks cylinder ports, while allowing flow from 3 to 1. When coil #1 is energized, flow is allowed from 3 to 2, and from 4 to 1. When coil #2 is energized, flow is allowed from 3 to 4, and from 2 to 1. In circuits where work port flows are unequal due to cylinder ratios, the higher return flow should be directed to port 2.

**NOTE:** Orifice disc should not be used with this product.

### Features

- Continuous-duty rated solenoid.
- Hardened precision spool and cage for long life.
- Optional coil voltages and terminations.
- Manual override option.
- Corrosion-resistant plating.
- Waterproof E&E Coils rated up to IP69K.
- All ports may be fully pressurized.
- Unitized, molded coil design.
- Industry common cavity.
- All HyPerformance products are tested to the rigorous standards of the NFPA specification T2.6.1.
- All HyPerformance valves are tested at a verification level of 90% and an assurance of 99%.

## Ratings

### Pressure Ratings

Pressure rating	350 bar (5075 psi)	<b>- Note:</b> (10% cycle life)
	420 bar (6090 psi)	
Proof pressure	690 bar (10000 psi)	
Burst pressure	1380 bar (20000 psi)	

### Flow Ratings

Flow rating	See performance graph	
Maximum internal leakage	156 ml/min (9.5 in <sup>3</sup> /min) energized.	<b>- Note:</b> Ports 3-1: at 350 bar (5075 psi) S1 coil energized.
	185 ml/min (11.3 in <sup>3</sup> /min) energized.	<b>- Note:</b> Ports 3-1: at 350 bar (5075 psi) S2 coil energized.

### Other Ratings

Cycle life	One million cycles
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### Temperature Ratings

Operating fluid temperature	-40 to 100 °C (-40 to 212 °F)	<b>- Note:</b> With Buna N seals
	-26 to 204 °C (-15 to 400 °F)	<b>- Note:</b> With fluorocarbon seals
	-54 to 107 °C (-65 to 225 °F)	<b>- Note:</b> With urethane seals
Storage temperature	-40 to 70 °C (-40 to 160 °F)	
Ambient temperature	-40 to 90 °C (-40 to 194 °F)	

## Operating Parameters

Fluids	Mineral based or synthetic hydraulic fluid with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination level	18/16/13 per ISO 4406





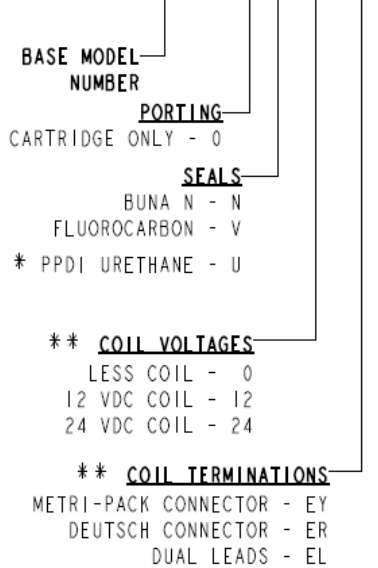
Accessories

Seal kit	SK10-4N-MMM	- <b>Note:</b> Buna N
	SK10-4V-MMM	- <b>Note:</b> fluorocarbon
	SK10-4U-OOO	- <b>Note:</b> urethane

Order Code

ORDERING INFORMATION

HSV10-47A-X-X-XX XX



\* URETHANE SEALS RECOMMENDED FOR OPERATING PRESSURES ABOVE 3500 psi [241 bar].

**Model Options**

HSV10-47AE-H-J-L

**E Manual Override**

CODE	DESCRIPTION
B	Momentary Push/Pull Override, 1.5" Diameter Aluminum Knob
BLANK	NONE
K	Three Position Override, 1.5" Diameter Aluminum Knob
M	Momentary Push/Pull Override, Red Knurled Knob

**H Line Body**

CODE	DESCRIPTION
0	No Body
8HT	Ductile Iron SAE 8

**J Seal**

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
U	PPDI Urethane

**L Coil**

CODE	DESCRIPTION
0E	No Coil, E-Coil Spacer



CODE	DESCRIPTION
10EL	10 VDC, E-Coil, Dual Lead Wires
10ER	10 VDC, E-Coil, Deutsch
10ER/Z	10 VDC, E-Coil, Deutsch with Zener Diode
12EG	12 VDC, E-Coil, DIN 43650
12EJ	12 VDC, E-Coil, AMP Jr.
12EL	12 VDC, E-Coil, Dual Lead Wires, 18 inches long
12EL/36	12 VDC, E-Coil, Dual Lead Wires, 36 inches long
12EL/W/Z	12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode
12EL/Z	12 VDC, E-Coil, Dual Lead Wires with Zener Diode
12ER	12 VDC, E-Coil, Deutsch
12ER/Z	12 VDC, E-Coil, Deutsch with Zener Diode
12EY	12 VDC, E-Coil, Metri-Pack 150
12EY/Z	12 VDC, E-Coil, Metri-Pack 150 with Zener Diode
20ER	20 VDC, E-Coil, Deutsch
24EG	24 VDC, E-Coil, DIN 43650
24EJ	24 VDC, E-Coil, AMP Jr.
24EL	24 VDC, E-Coil, Dual Lead Wires, 18 inches long
24EL/36	24 VDC, E-Coil, Dual Lead Wires, 36 inches long
24EL/W/Z	24 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode
24ER	24 VDC, E-Coil, Deutsch
24ER/Z	24 VDC, E-Coil, Deutsch with Zener Diode
24EY	24 VDC, E-Coil, Metri-Pack 150
24EY/Z	24 VDC, E-Coil, Metri-Pack 150 with Zener Diode