

HYSV10-47B (4/3 Solenoid Valve, Spool Tyle)

Description

A solenoid operated, 4-way, 3-position, open center spool-type cartridge valve.

Operation

When de-energized, the valve allows flow at all ports.
 When coil S1 is energized, the valve allows flow from ③ to ④ and from ② to ① ;
 When coil S2 is energized, the valve allows flow from ③ to ② and from ④ to ① .

Specifications

Max. operating pressure:	207 Bar
Flow:	See pressure drop vs.flow graph
Internal leakage:	328 cc/min.max.at 207 bar
Temperature:	(-40°C To +120°C) with NBR material seals
Coil duty rating:	Continuous from 85% to 115% of nominal voltage
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	HY10-4,see page H.1.4
Body material:	6061-T6 Aluminum alloy rated to 207 bar, steel & ductile iron rated to 350 bar

Code symbol , profile and pressure drop vs.flow

③ To ② or ④, or ④ to ① loop : ---
 ③ To ① or ② to ① : ——— ;
 32 cSt /150ssu oil at 40° C

Flow (Lpm/gpm)	Pressure Drop (Bar/psi)
1	1.7/25
2	3.4/50
3	5.2/75
4	6.9/100
5	8.6/125
6	10.3/150

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External dimensions

Material science and order model

Cartridge: weight: 0.30 kg (0.65 lb); Steel, the working face is duratected Surcace zine-plated; NBR material sealing and check ring (standard).

Block:weight :0.36 kg (0.80 lb); High-strength performance aluminum alloy with anodic oxidation; #6061 T6; Rated pressure up to 240 bar (3500 psi); Also available with ductile cast iron and steel material; Size might be different,please consult factory.

Standard coil:weight:0.27 kg (0.60 lb); Heat-wrappinf pack,Class H heat-resistant enamelled wire;

E type coil:weight :0.41 kg (0.9 lb); Soid metallic shell encapsulated; IP 69K rated,integrated connector.

Option	Porting	Seals	Voltage std.coil	Termination std.coil (VDC)
None (Blank)	Cartridge only	Buna (Std.)	0 Less coil**	DS Dual spades
Manual override M	SAE 6 6T	Fluorocarbon	10 10 VDC †	DG DIN 43650
Manual override T	SAE 8 8T		12 12 VDC	DL Leadwire (2)
	1/4 Inch BSP* 2B		24 24 VDC	DL/W Leadwire,lead w/weatherpak®connectors
	3/8 Inch BSP* 3B		48 48 VDC	DR Deutch DT04-2P
			24 24 VAC	Termination std.coil (VAC)
			115 115 VAC	AG DIN 43650
			230 230 VAC	AP 1/2 inch conduit
			** Includes std.coil nut † DS,DW or DL terminations only	
			E type coil	ER Deutch DT04-2P (IP69K rated)
			10 10 VDC	EL Leadwire (2)
			12 12 VDC	EY Metri-Pack® 150 (IP69K rated)
			20 20 VDC	
			24 24 VDC	Coils with internal diode are available,please consult factory.