

HYSV10-42 (4/2 Solenoid Valve, Normally Open)

Description

A solenoid operated, 4-way, 2-position, spool-type cartridge valve.

Operation

When de-energized, the valve allows flow from ③ to ④ and from ② to ①.
When energized, the cartridge's spool shifts to block flow at all ports.

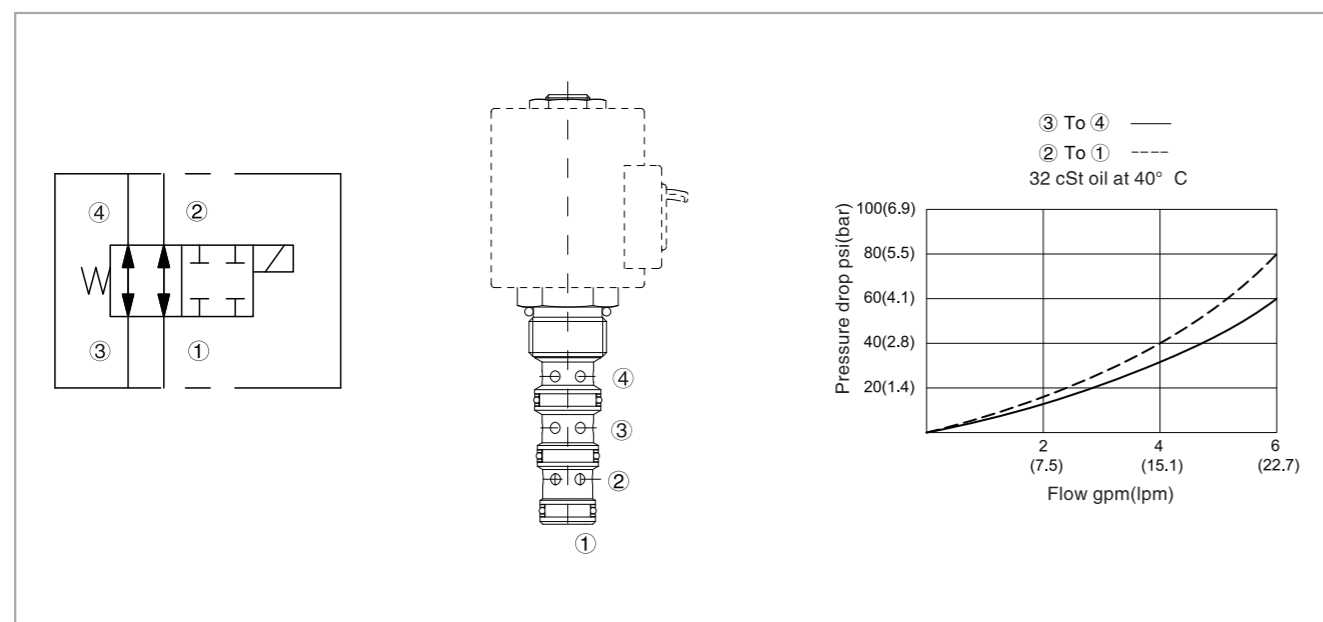
Operation of manual override option

To override, push button in, twist counterclockwise 180° and release. In this position, valve will remain detented in the shifted condition. To return to normal operation, push button in, twist clockwise 180° and release. Override will be detented in this position.

Specifications

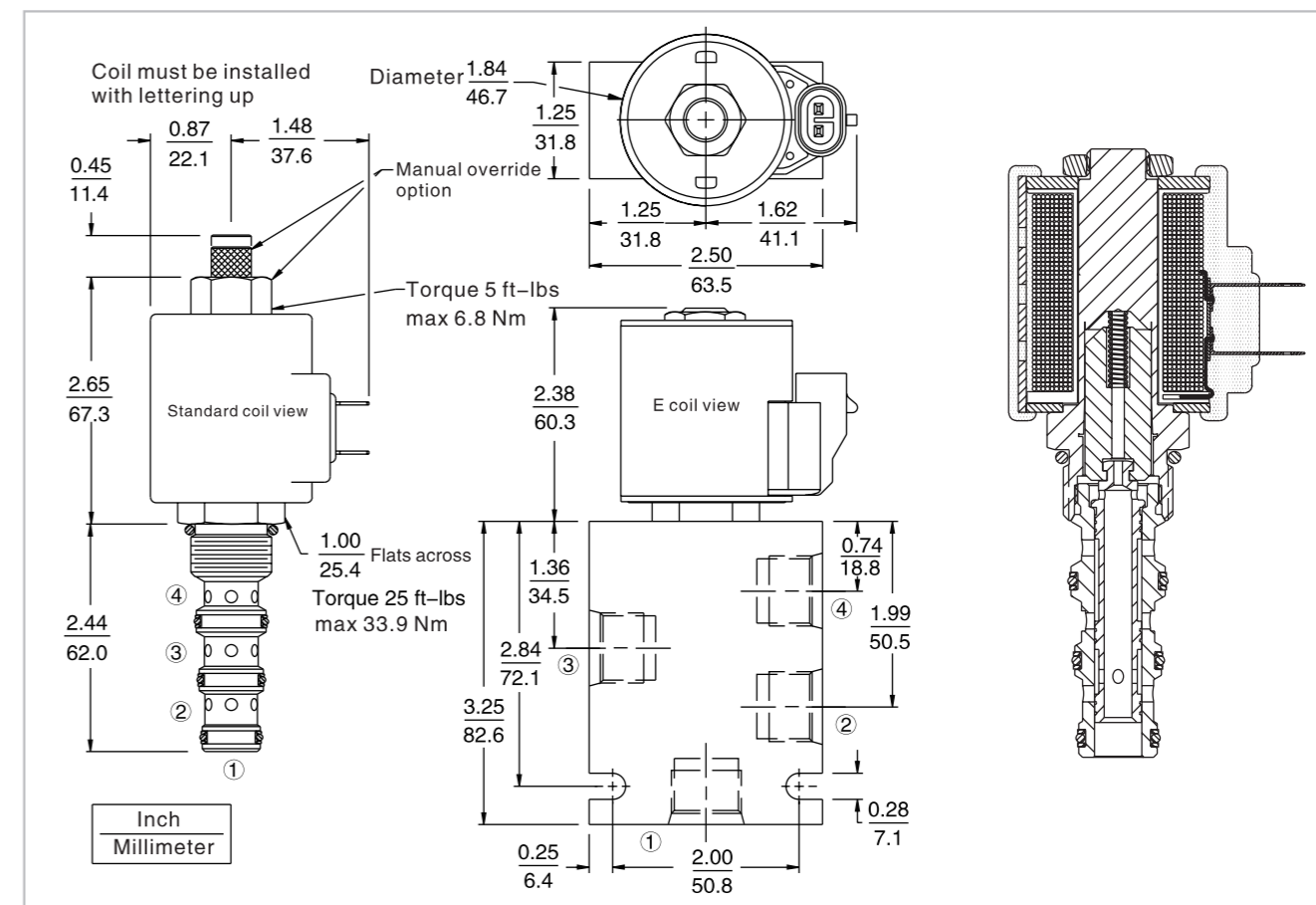
Max. operating pressure:	207 Bar
Flow:	See pressure drop vs. flow graph
Internal leakage:	82 cc/min. max. at 207 bar
Temperature:	(-40°C To +120°C) with NBR material seals
Coil duty rating:	Continuous from 85% to 115% of nominal voltage
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
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



HYSV10-42 (4/2 Solenoid Valve, Normally Open)

External dimensions



Material science and order model

Cartridge: weight: 0.20 kg (0.45 lb); HYSV10-42
Steel, the working face is duratected
Surface zinc-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); 1.001.1

See 8.008.1; 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-wrapping pack, Class H
heat-resistant enamelled wire;
See 3.200.1

E type coil: weight: 0.41 kg (0.9 lb);
Soid metallic shell encapsulated;
IP 69K rated, integrated connector.
Note: regarding all new application for E type coil, please refer to 3.400.1.

Option	Termination std. coil (VDC)
None (Blank)	DS Dual spades
Manual override M	DG DIN 43650
Manual override Y	DL Leadwire (2)
Manual override J	DL/W Leadwire, lead w/weatherpak® connectors
Information about manual override, please refer to	DR Deutsch DT04-2P
	Termination std. coil (VAC)
Porting	AG DIN 43650
Cartridge only 0	AP 1/2 inch conduit
SAE 6 6T	E type coil termination (VDC)
SAE 8 8T	ER Deutsch DT04-2P (IP69K rated)
1/4 Inch BSP* 2B	EY Metri-Pack® 150 (IP69K rated)
3/8 Inch BSP* 3B	Coils with internal diode are available, please consult factory.
*BSP block only for UK made	
Seals	
Buna (Std.) N	
Fluorocarbon V	

Option	Termination std. coil (VDC)
0 Less coil**	
10 10 VDC†	
12 12 VDC	
24 24 VDC	
36 36 VDC	
48 48 VDC	
24 24 VAC	
115 115 VAC	
230 230 VAC	
** Includes std. coil nut	
† DS, DW or DL terminations only	