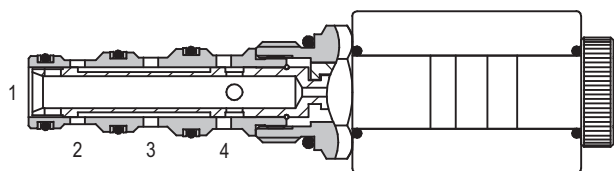




S542 Directional Control Valve - 4-Way, 2-Position Spool

Up to 35 litres/min (9 US GPM) • Up to 210 bar (3000 PSI)

S542



COIL INFORMATION

(See Page 11-1021)

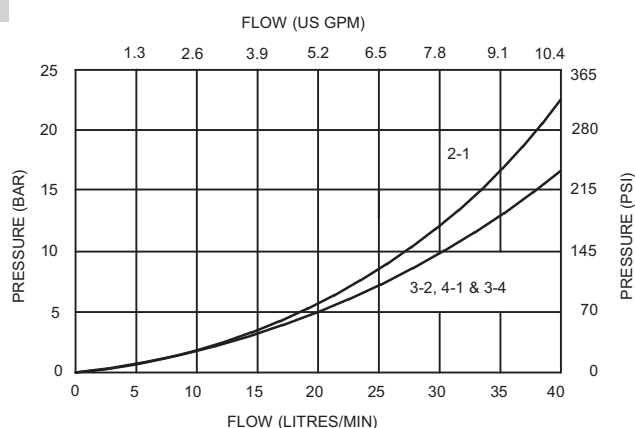
Part Number: C16-*/19

Voltage available: 12, 24 VDC
110, 220 VAC*

* AC coils must be used with a rectifying connector.

PRESSURE DROP v's FLOW

Viscosity = 32 cSt (150 SSU)



FEATURES

- High flow capacity with reduced space requirements.
- No dynamic seals.
- Standard valve bodies and common cavities.
- One-piece encapsulated coil with minimal amperage draw.
- Oil immersed armature solenoid.
- Various coil terminals and voltages.
- Coil interchangeability with all Series S5 valves.
- Manual override, seal variations and other options available.
- Sealed coil arrangement to protect stem from corrosion.
- Reversible coil without affecting performance.

SPECIFICATIONS

Basic Model Code	S542
Symbol	
Max. Working Pressure	210 bar (3000 psi)
Flow Rating	See performance graphs
Nominal flow (at Delta P = 5 bar (70 psi))	20 litres/min (5 US GPM)
Internal Leakage	Less than 120 ml/min past each land 210 bar differential at 32 centistokes
Temperature Range	-20 to +120°C (-4 to +248°F)
Nominal Viscosity Range	15 to 250 centistokes
Recommended Filtration	BS5540/4 18/13 (25 micron or better)
Fluid	Compatible with most general purpose hydraulic fluids
Seal Material	Standard nitrile with PTFE back up rings
Seal Kit Number	SK1031 (Nitrile) SK1031V (Viton)
Mounting Position	Unrestricted
Cartridge Weight	0.205 kg (0.45 lbs)
Coil Weight	0.3 kg (0.6 lbs)
Cavity Number	A12744 (See Section 17)
Torque into Cavity	30 Nm (22 lbs ft)
Electrical Data	See coil data sheet
Line Body Material	Aluminium Alloy

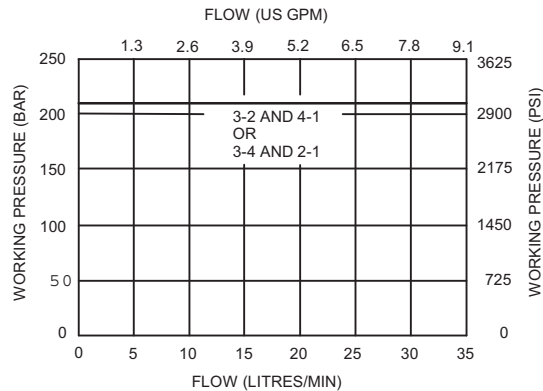
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PERFORMANCE

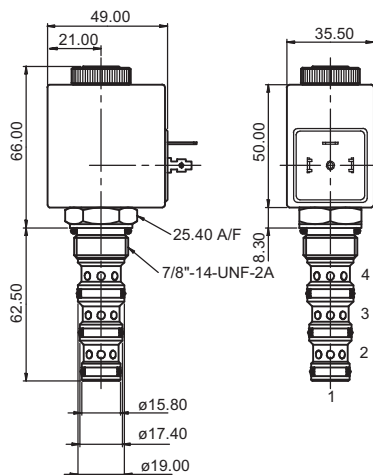


NOTE:

For applications where unbalanced pressure and return flows are encountered the flow rate of this valve should be reduced, please contact our sales office for details.

CARTRIDGE ONLY

BASIC CODE: S542



COMPLETE VALVE

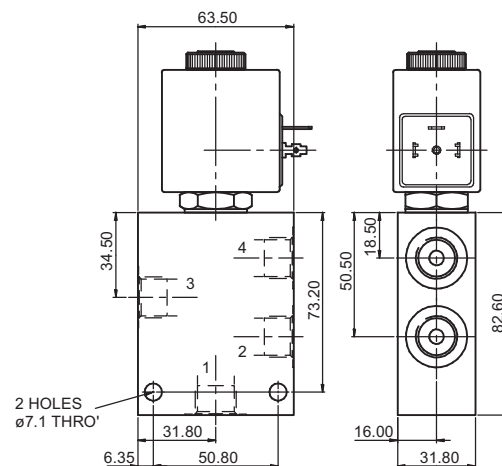
3/8" 1/2" PORTS

BASIC CODE: S542

Body ONLY part numbers

BSP, aluminium
3/8" B19240
1/2" B19228

SAE, aluminium
1/2" B19229



Where measurements are critical request certified drawings

ORDERING CODE EXAMPLE

S542 N H 24 3W

Basic Code
S542

Seals
N = Nitrile
V = Viton

Manual Override (consult factory for availability)
2 = Screw

Port Sizes

3W = 3/8" BSP
4W = 1/2" BSP
8T = 1/2" SAE

Voltage

12 = 12 VDC
24 = 24 VDC
110 = 110 VAC
220 = 220 VAC

Coil Termination

H = DIN43650
F = Flying Leads
DM = Deutsch Moulded
Other terminations available on request

We reserve the right to change specifications without notice

11-3212.B