



S600 / S609 Directional Control Valve - 2-Way, 2-Position Poppet

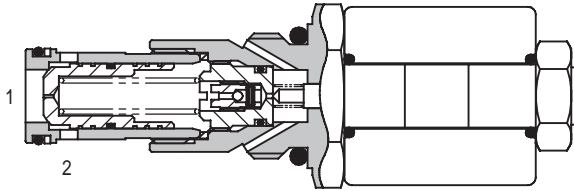
100 litres/min (26 US GPM) • 250 bar (3600 PSI)

S600

**NORMALLY OPEN
(as shown)**

S609

NORMALLY CLOSED



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 S2 valves.
- Manual override, seal variations and other options available.
- Sealed coil arrangement to protect stem from corrosion.

APPLICATION

To give on-off control of flows up to 100 litres/min (26 US GPM) and pressures up to 250 bar (3600 psi).

COIL INFORMATION

(See Page 11-1021)

Part Number: C13-*/14

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

* AC coils must be used with a rectifying connector.

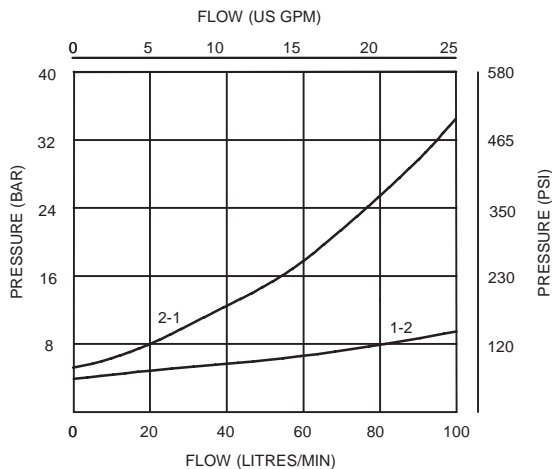
SPECIFICATIONS

Basic Model Code	S600 (N.O.)	S609 (N.C.)
Symbol		
Max. Working Pressure	250 bar (3600 psi)	
Flow Rating	100 litres/min (26 US GPM)	
Nominal Flow (at Delta P = 5 bar (70 psi))	60 litres/min (16 US GPM)	
Internal Leakage	0.6 ml/min (10 dpm) 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	SK390 (Nitrile)	SK390V (Viton)
Mounting Position	Unrestricted	
Cartridge Weight	0.25 kg (0.55 lbs)	
Coil Weight	0.2 kg (0.4 lbs)	
Cavity Number	A881 (See Section 17)	
Torque into Cavity	60 Nm (44 lbs ft)	
Electrical Data	See coil data sheet	
Line Body Material	Aluminium Alloy (up to 210 bar*)	

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PRESSURE DROP v's FLOW

Viscosity = 32 cSt (150 SSU)



*For applications above 210 bar please consult our technical department or use the steel body option.

Integrated Hydraulics Ltd

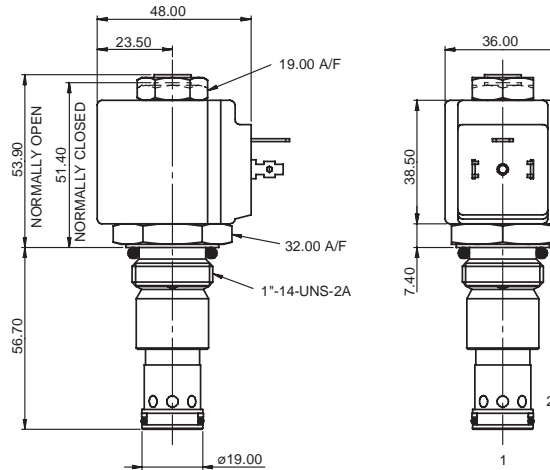
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CARTRIDGE ONLY

**BASIC CODE: S600 (Normally Open)
S609 (Normally Closed)**



COMPLETE VALVE

1/2" 3/4" PORTS

**BASIC CODE: S600 (Normally Open)
S609 (Normally Closed)**

Body ONLY part numbers

BSP, aluminium	SAE, aluminium
1/2" B4851	1/2" B19403
3/4" B3954	3/4" B19404

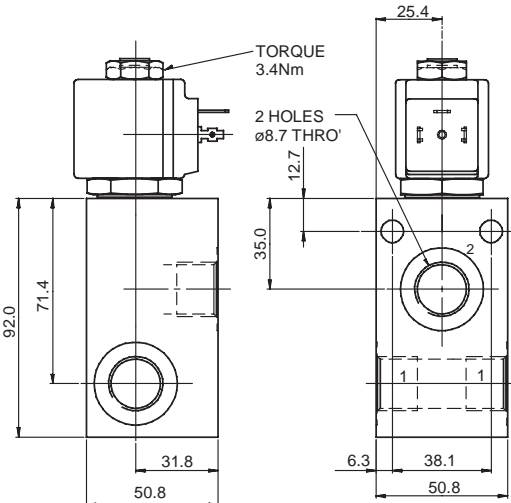
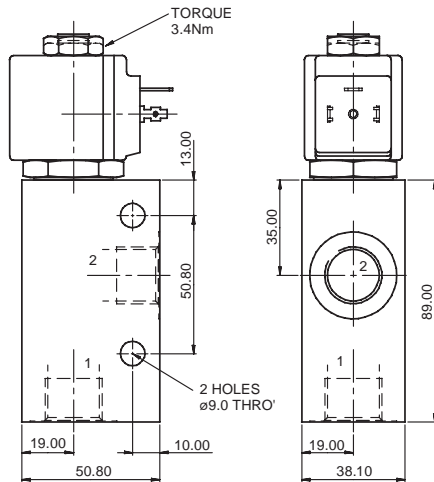
COMPLETE VALVE

3/8" 1/2" 3/4" PORTS

**BASIC CODE: S600T (Normally Open)
S609T (Normally Closed)**

Body ONLY part numbers

BSP, aluminium	SAE, aluminium	BSP, steel	SAE, aluminium
3/8" C1084	3/8" B10784	1/2" C593	
1/2" C1044	1/2" C7140	3/4" C4917	
3/4" C1086	3/4" B10506	3/4" B10742	



Where measurements are critical request certified drawings

ORDERING CODE EXAMPLE

S60* **N** **H** **24** **4W** **T**

Basic Code
S600 = (normally open)
S609 = (normally closed)

Seals
N = Nitrile
V = Viton

Manual Override (consult factory for availability)
3 = Push (S600 Only)

Body Type
Omit = Standard
T = Through ported

Port Sizes
3W = 3/8" BSP 6T = 3/8" SAE
4W = 1/2" BSP 8T = 1/2" SAE
6W = 3/4" BSP 12T = 3/4" SAE

Voltage
12 = 12 VDC 110 = 110 VAC
24 = 24 VDC 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