# S203 / S204 Directional Control Valve - 2-Way, 2-Position Poppet

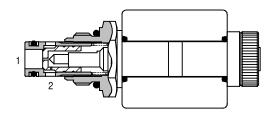
30 litres/min (8 US GPM) • 210 bar (3000 PSI)

**S203** 

S204

NORMALLY OPEN (as shown)

NORMALLY CLOSED



## **APPLICATION**

To give on-off control of flows up to 30 litres/min (8 US GPM) and pressures up to 210 bar (3000 psi). Typical usage includes the control of actuators in a hydraulic system. This range has a larger flow capacity and lower pressure drop than the S205/S206 range and is more suitable in some applications for pilot and vent control of larger valves.

# **COIL INFORMATION**

(See Page 11-1021)

Part Number: C13-\*-\*/14

Voltage available: 12, 24 VDC

110, 220 VAC\*

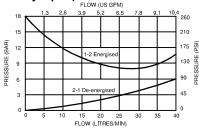
\* AC coils must be used with a rectifying connector.

# 11

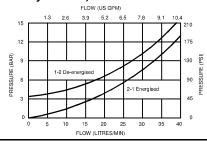
# PRESSURE DROP v's FLOW

Viscosity = 32 cSt (150 SSU)

## S203 (Normally Open)



#### S204 (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.

# **SPECIFICATIONS**

Basic Model Code	S203 (N.O.)	S204 (N.C.)
Symbol		2
Max. Working Pressure	210 bar (3000 psi)	
Flow Rating	30 litres/min (8 US GPM)	
Nominal Flow (at Delta P = 5 bar (70 psi))	25 litres/min (6.5 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	SK1043(Nitrile) SK1043V (Viton)	
Mounting Position	Unrestricted	
Cartridge Weight	0.08 kg (0.18 lbs)	
Coil Weight	0.2 kg (0.4 lbs)	
Cavity Number	A879 (See Section 17)	
Torque into Cavity	22 Nm (15 lbs ft)	
Electrical Data	See coil data sheet	
Line Body Material	Aluminium Alloy	

# **Integrated Hydraulics Ltd**

Collins Road, Heathcote Ind. Est., Warwick, CV34 6TF, UK. Tel: +44 (0) 1926 881171 Fax: +44 (0) 1926 315729

Website: www.integratedhydraulics.com

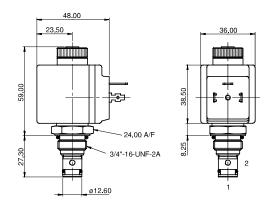
## **Integrated Hydraulics Inc**

7047 Spinach Drive, Mentor, Ohio 44060, USA Tel: (440) 974 3171 Fax: (440) 974 3170 Website: www.integratedhydraulics.com



## **CARTRIDGE ONLY**

**BASIC CODE:** S203 (Normally Open)



# **COMPLETE VALVE**

1/4" 3/8" PORTS

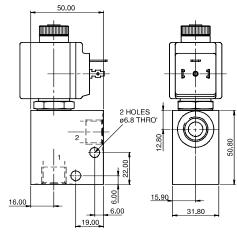
BASIC CODE: S203 (Normally Open)

Body ONLY part numbers

 BSP, aluminium
 SAE, aluminium

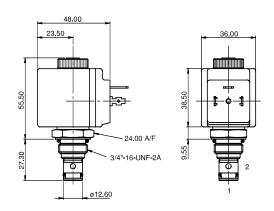
 1/4"
 A1485
 1/4"
 A14842

 3/8"
 A1043
 3/8"
 A15676



## **CARTRIDGE ONLY**

**BASIC CODE: S204 (Normally Closed)** 



# **COMPLETE VALVE**

1/4" 3/8" PORTS

**BASIC CODE: S204 (Normally Closed)** 

Body ONLY part numbers

BSP, aluminium
1/4" A1485
3/8" A1043

3/8" A15676

50.00

2 HOLES
6.8 THRO

8 HOLES
6.00

31.80

19.00

Where measurements are critical request certified drawings

## ORDERING CODE EXAMPLE

