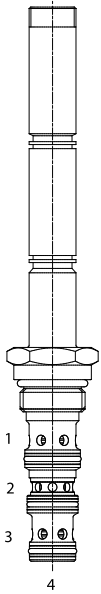


EG-S4M 4 WAY 3 POSITION, MOTOR SPOOL, PROPORTIONAL DIRECTIONAL VALVE

DESCRIPTION

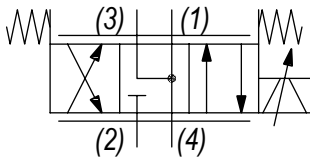
10 size, 7/8-14 thread, "Delta" series, solenoid operated, 4 way 3 position, Motor Spool, proportional directional valve.

OPERATION

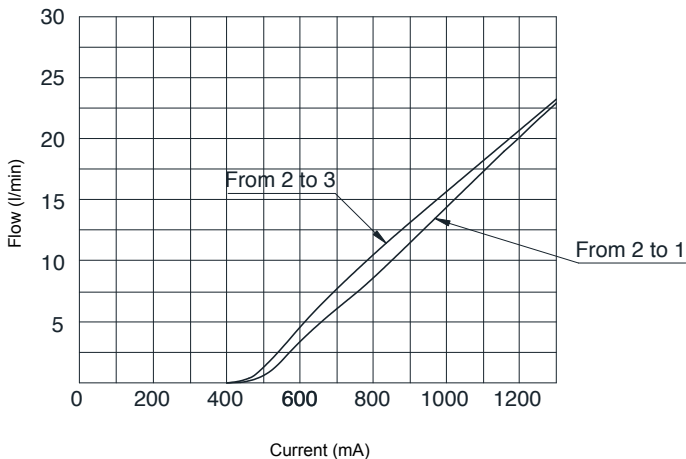
EG-S4M, when de-energized, blocks flow at (2) and allows flow between (1), (3) and (4). When coil (S1) is energized, flow is allowed from (3) to (4), and from (2) to (1). When coil (S2) is energized, flow is allowed from (3) to (2), and from (4) to (1). Flow is proportional to the current applied to the coil. A compensator must be used to create a pressure compensated flow control function.

FEATURES

- Hardened parts for long-life.
- Industry common cavity.
- Excellent linearity and low hysteresis characteristics.
- Cartridges are voltage interchangeable.
- Optional coil voltages and terminations available.
- Unitized, molded coil design.
- Continuous duty rated solenoid.

HYDRAULIC SYMBOL

PERFORMANCE
Flow vs. Current

Coil 12 VDC - 100 Hz PWM - Oil 26 cSt (121 SSU) @ 50°C (122°F)
Operating curves made with circuit having a pressure drop of 14bar


VALVE SPECIFICATIONS

Flow Range	See curves for various versions
Max System Pressure	3500 PSI (241 bar)
Leakage	15 cu-in/min 250 cc/min bar @ 210 bar
Hysteresis	±5%
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-30°C / +100°C
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	25 ft-lbs (34 Nm)
Coil Nut Torque Requirements	2-3 ft-lbs (3-4 Nm)
Cavity	DELTA 4W
Cavity Tools Kit (form tool, reamer, tap)	40500002

COIL SPECIFICATIONS

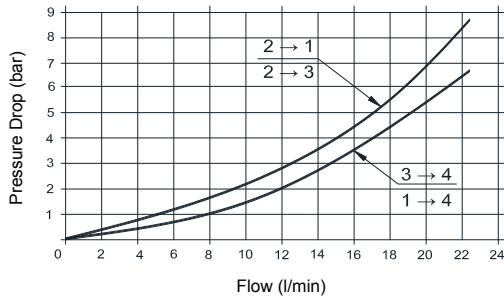
Current Supply Characteristics	PWM (Pulse Width Modulation)
Rated Current Range	400-1400 mA
PWM or Super-Imposed	
Dither Frequency	100-200 Hz
Coil Resistance (12 VDC)	5.6 Ohm ±5% at 68°F (20°C)

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

DIMENSIONS

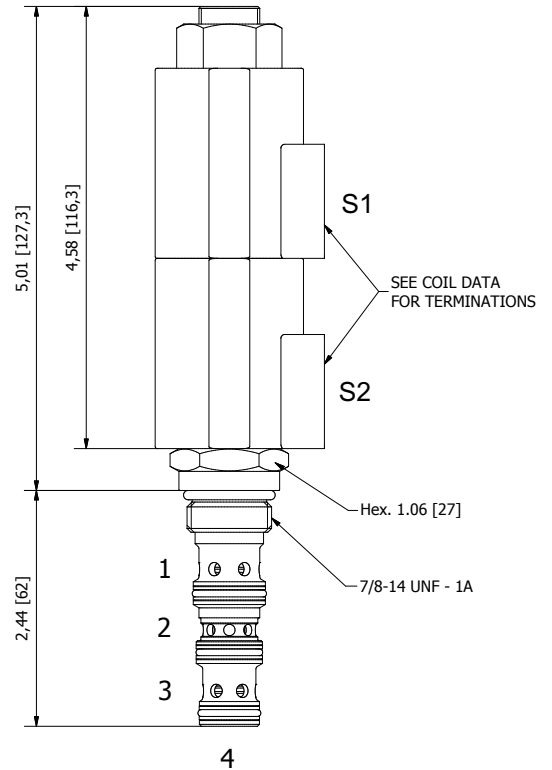
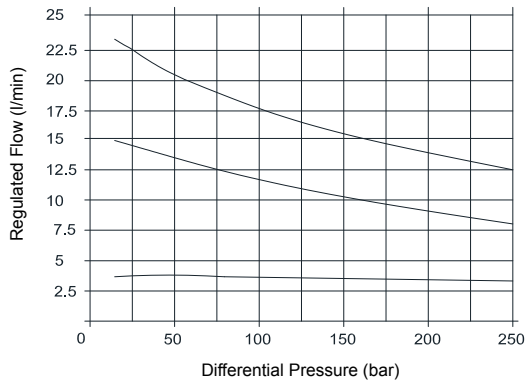
Pressure Drop vs. Flow

Oil 26cSt (121 SSU) @ 50°C (122°F)



Pressure Compensation from Inlet to Work Port

Oil 26cSt (121 SSU) @ 50°C (122°F)



(for bodies style and sizes see section "Accessories")

ORDERING INFORMATION

Approximate Coil Weight: .47 lbs (.21 kg)

EG-S4M - - - -

OPTIONS
Buna Standard **B0** Up to 22 l/min

BODIES
Blank Without Body
N 3/8" BSP Ports
S #6 SAE Ports

VOLTAGE
12 12 VDC
24 24 VDC

"L" COIL TERMINATION

HC DIN 43650 (Hirschmann)
DT Deutsch-Integral DT04-2P

NOTE: for other seals, consult factory.