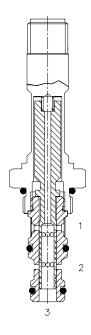
# TC-S3A DIRECT ACTING SPOOL, 3 WAY 2 POSITION, TRANSMISSION & BRAKE



### **DESCRIPTION**

7 size, 5/8-18 thread, "Mini" series, solenoid operated, 3 way 2 position, transmission & brake spool valve.

#### **OPERATION**

When de-energized the TC-S3A blocks flow at (1) and allows flow from (3) to (2). When energized the valve allows flow from (1) to (3) and blocks flow at (2).

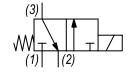
# **FEATURES**

- · Hardened parts for long life.
- Efficient wet-armature construction.
- · Cartridges are voltage interchangeable.
- · Industry common cavity.
- · Unitized, molded coil design.
- · Continuous duty rated solenoid.
- Optional coil voltages and terminations.

### **HYDRAULIC SYMBOL**

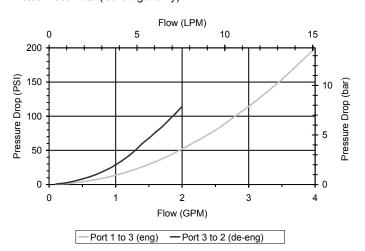


Contamination Tolerant Product. This valve is designed for transmission and brake applications. Consult factory for alternate low wattage coil options.



#### **PERFORMANCE**

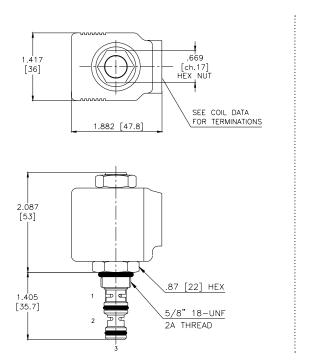
Actual Test Data (Cartridge Only)

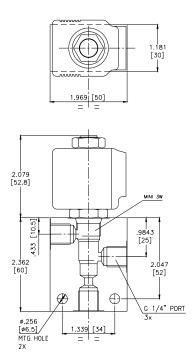


VALVE SPECIFICATIONS	
Nominal Flow	3 GPM (11 LPM) from (1) to (3)
	2 GPM (7.6 LPM) from (3) to (2)
Rated Operating Pressure	1000 PSI (70 bar)
Typical Internal Leakage (150 SSU)	5 cu in/min (82 ml/min)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 20/18/15
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.14 lbs (.06 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	15 ft-lbs (20.3 Nm)
Coil Nut Torque Requirements	3-4 ft-lbs (4.1-5.4 Nm)
Cavity	MINI 3W
Cavity form Tool (finishing)	40500004
Seal Kit	21191006

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**





# **ORDERING INFORMATION** Approximate Coil Weight: .42 lbs (.19 kg) TC-S3A **BODIES OPTIONS** Buna Standard 00 Blank Without Body Viton Standard V0 1/4" BSP Ports #6 SAE Ports s **VOLTAGE** (other voltages available on request) 12 VDC 12 24 VDC 24 22 220 VAC without internal rectifier Note: use screen only if flow direction is from (1) to (2) **"P" TYPE "J" COIL TERMINATION**

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JA "J" Coil AMP Superseal - Integral

JD "J" Coil Deutsch - Integral DT04-2P

JJ "J" Coil AMP Jr. Time - Integral

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"J" Coil Double Lead

"J" Coil DIN 43650 (Hirschmann)