

**HF-S3A DIRECT ACTING SPOOL, 3 WAY 2 POSITION**

**DESCRIPTION**

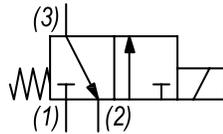
"High Pressure" 10 size, 7/8-14 thread, "Delta" series, solenoid operated, 3 way 2 position, spool valve.

**OPERATION**

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

**FEATURES**

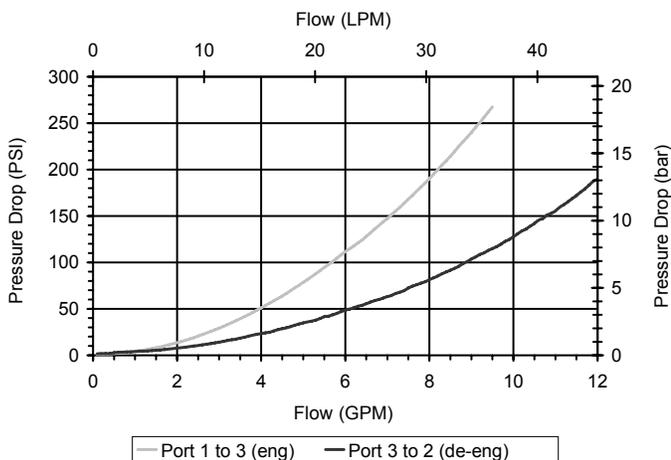
- Hardened parts for long life.
- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Industry common cavity.
- Unitized, molded coil design.
- Continuous duty rated solenoid.
- Optional coil voltages and terminations.
- Optional "I" Coil: Weatherproof, Thermal Shock, Immersion Safe.

**HYDRAULIC SYMBOL**


Uses "L" Coils.  
Pressure differential between ports should not exceed 3500 PSI.

**PERFORMANCE**

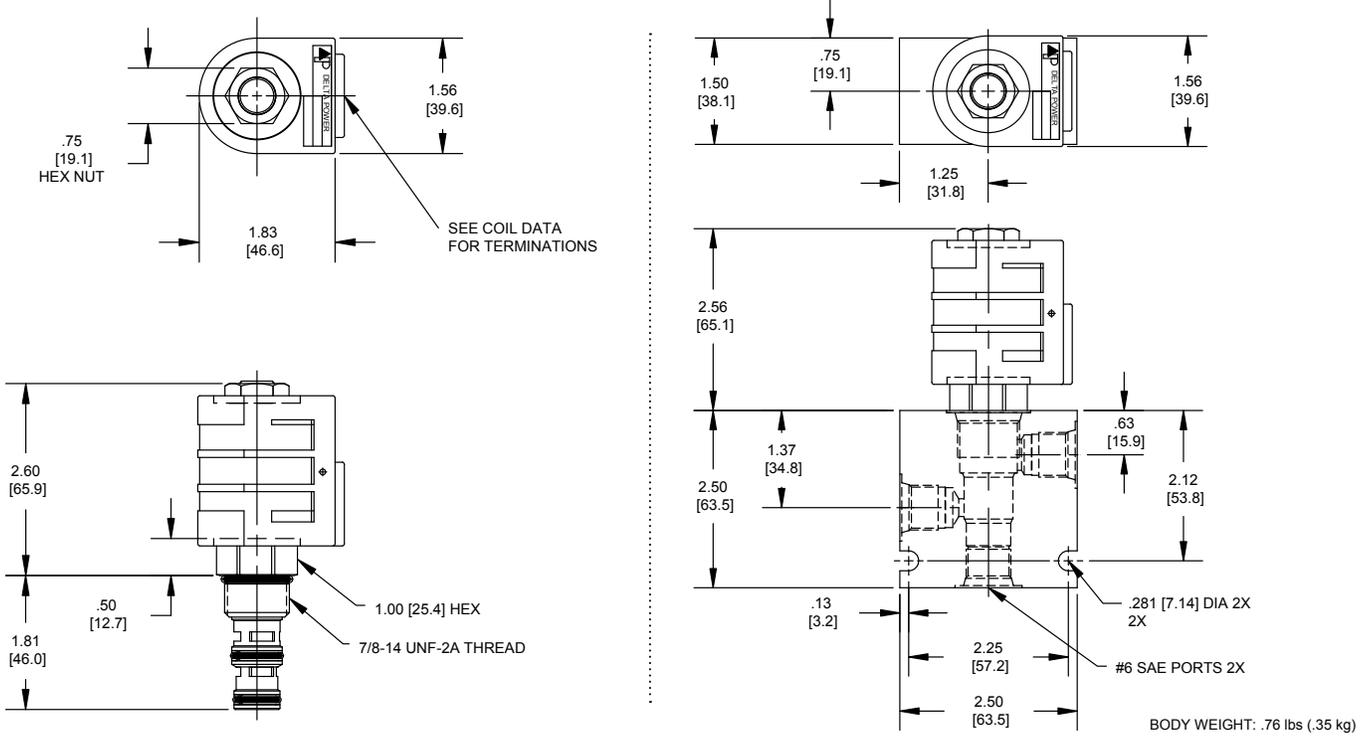
Actual Test Data (Cartridge Only)


**VALVE SPECIFICATIONS**

Nominal Flow	10 GPM (38 LPM)
Rated Operating Pressure	4000 PSI (276 bar)
Typical Internal Leakage (150 SSU)	8 cu in/min (131 ml/min)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.40 lbs (.18 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Coil Nut Torque Requirements	4-6 ft-lbs (5.4-8.1 Nm)
Cavity	DELTA 3W
Cavity Tools Kit	
(form tool, reamer, tap)	40500001
Seal Kit	21191210

**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: .68 lbs (.31 kg)

**HF-S3A**

**OPTIONS**  
 Buna Standard **00**  
 Viton Standard **V0**

**BODIES**  
 Blank Without Body  
**N** 1/4 NPTF Ports  
**S** #6 SAE Ports

**Note: Aluminum, NOT durability rated for 4000 PSI. Consult factory for body options.**

**VOLTAGE**  
**06** 6 VDC  
**12** 12 VDC  
**24** 24 VDC  
**36** 36 VDC  
**48** 48 VDC  
**25** 24 VAC  
**11** 120 VAC  
**22** 220 VAC  
**44** 440 VAC

**"L" COIL TERMINATION**  
 (All DC Except as Noted)

**DL** Double Lead  
**DT** Deutsch on Leads DT04-2P  
**ML** Metri-Pack on Leads  
**PL** Packard on Leads  
**WL** Weatherpack on Leads

**SS** Single Spade  
**DS** Double Spade  
**HC** DIN 43650 (Hirschmann) - (AC&DC)  
**CL** Conduit Lead - (AC Only)  
**DI** Deutsch - Integral DT04-2P

**IMMERSION PROOF "L" TYPE**  
**IA** "I" Coil AMP Superseal - Integral  
**ID** "I" Coil Deutsch - Integral DT04-2P  
**IJ** "I" Coil AMP Jr. Timer - Integral  
**IM** "I" Coil Metri-Pack - Integral

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