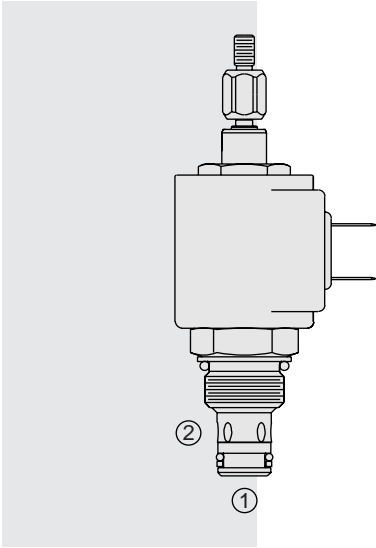


## SV08-20J Poppet, 2-Way, Normally Closed,



### DESCRIPTION

A solenoid-operated, 2-way, normally closed, poppet-type, screw-in hydraulic cartridge valve, with either “J” or “Y” type manual override standard. This valve is intended as a blocking or load holding device for low flow circuits having pull-only manual override requirements for handles or cable linkage.

### OPERATION

When de-energized, the **SV08-20J/Y** acts as a check valve, allowing flow from ① to ②, while blocking flow from ② to ①.

When energized, the valve’s poppet lifts to open the ② to ① flow path, while flow from ① to ② is severely restricted.

**Operation of Manual Override Option:** To manually override, pull and hold the knurled knob. This override is not detented. The pull force required is approximately 24 lbs. The “J” option includes a male 10-32 thread for a cable attachment. If a cable is used, the internal valve spring may not provide enough force to overcome internal cable friction. An external means of returning the cable must be provided by the user.

### FEATURES

- Continuous-duty rated coil.
- Hardened parts for long life.
- Optional coil voltages and terminations.
- Optional waterproof E-Coils rated up to IP69K.
- Manual override standard.
- Industry common cavity.
- Compact size.

### RATINGS

**Maximum Operating Pressure:** 207 bar (3000 psi)

**Proof Pressure:** 255 bar (3700 psi)

**Flow:** See Performance Chart

**Temperature:** -40 to 120°C with standard Buna seals

**Coil Duty Rating:** Continuous from 85% to 115% of nominal voltage

**Initial Coil Current Draw at 20°C:** Standard Coil: 1.2 amps at 12 VDC;

0.13 amps at 115 VAC (full wave rectified);

E-Coil: 1.4 amps at 12 VDC; 0.7 amps at 24 VDC

**Minimum Pull-in Voltage:** 85% of nominal at 40°C; Drop Out 5%

**Filtration:** See page 9.010.1

**Fluids:** Mineral-based or synthetics with lubricating properties at viscosities of

7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

**Installation:** No restrictions; See page 9.020.1

**Cavity:** VC08-2; See page 9.108.1

**Cavity Tool:** CT08-2XX; See page 8.600.1

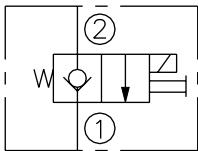
**Seal Kit:** SK08-2X-T; See page 8.650.1

**Coil Nut:** Part No. 7004400;

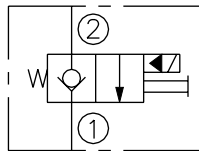
For E-coils manufactured prior to 1-1-04, see page 3.400.1 for coil nut info.

### SYMBOLS

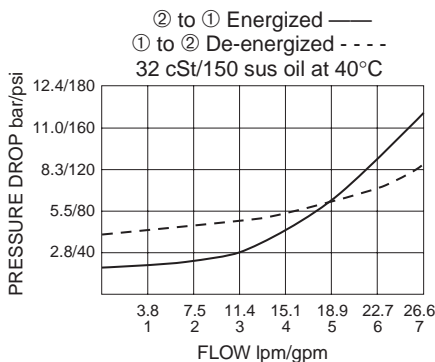
#### USASI:



#### ISO:



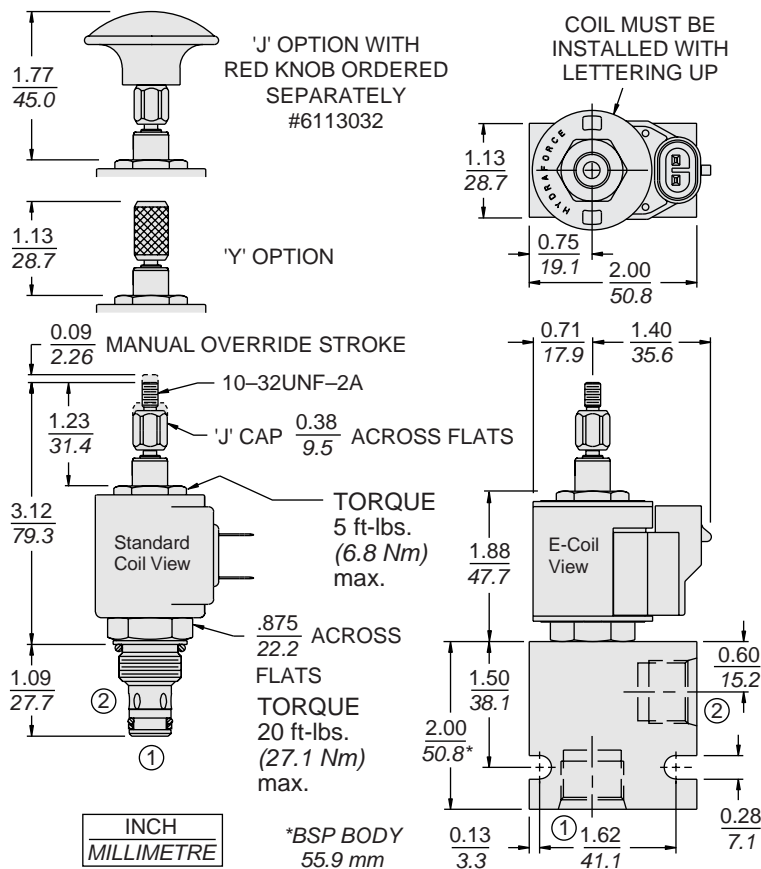
### PERFORMANCE (Cartridge Only)



with Pull Only Manual Override

SV08-20J

**DIMENSIONS**



**MATERIALS**

**Cartridge:** Weight: 0.15 kg. (0.33 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces; Buna N O-rings and back-ups standard.

**Standard Ported Body:** Weight: 0.16 kg. (0.35 lbs.); Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi); Ductile iron bodies available; dimensions may differ. See page 8.008.1

**Standard Coil:** Weight: 0.11 kg. (0.25 lbs.); Unitized thermoplastic encapsulated, Class H high temperature magnetwire. See page 3.200.1

**E-Coil:** Weight: 0.14 kg. (0.3 lbs.); Fully encapsulated with rugged external metal shell. Rated up to IP69K with integral connectors.

**Note: See page 3.400.1 for all E-Coil retrofit applications.**

**TO ORDER**

**SV08-20 J -**

<b>Option</b>		<b>Voltage Std. Coil</b>	<b>Termination (VDC) Std. Coil</b>
Cable Adapter <b>J</b>		<b>0</b> Less Coil**	<b>DS</b> Dual Spades
Knurled Knob <b>Y</b>		<b>10</b> 10 VDC†	<b>DG</b> DIN 43650
		<b>12</b> 12 VDC	<b>DL</b> Leadwires (2)
		<b>24</b> 24 VDC	<b>DL/W</b> Leads w/Weatherpak® Connectors
		<b>36</b> 36 VD	<b>DR</b> Deutsch DT04-2P
<b>Porting</b>		<b>48</b> 48 VDC	<b>Termination (VAC) Std. Coil</b>
Cartridge Only <b>0</b>		<b>24</b> 24 VAC	<b>AG</b> DIN 43650
SAE 4 <b>4T</b>		<b>115</b> 115 VAC	<b>AP</b> 1/2 in. Conduit
SAE 6 <b>6T</b>		<b>230</b> 230 VAC	<b>Termination (VDC) E-Coil</b>
1/4 in. BSP* <b>2B</b>			<b>ER</b> Deutsch DT04-2P (IP69K Rated)
3/8 in. BSP* <b>3B</b>			<b>EY</b> Metri-Pack® 150 (IP69K Rated)
			Coils with internal diode are available. Consult factory.
<b>Seals</b>		<b>E-Coil</b>	
Buna N (Std.) <b>N</b>		<b>10</b> 10 VDC	
Fluorocarbon <b>V</b>		<b>12</b> 12 VDC	
		<b>20</b> 20 VDC	
		<b>24</b> 24 VDC	