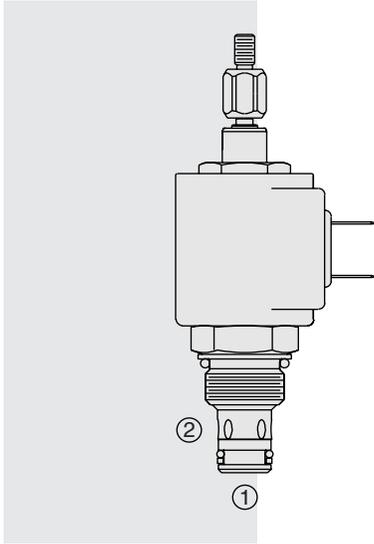


SV08-20J Poppet, 2-Way, Normally Closed,



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

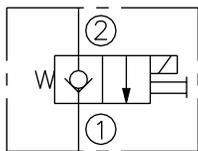
Seal Kit: SK08-2X-T; See page 8.650.1

Coil Nut: Part No. 7004400;

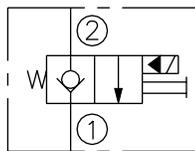
For E-coils manufactured prior to 1-1-04, see page 3.400.1 for coil nut info.

SYMBOLS

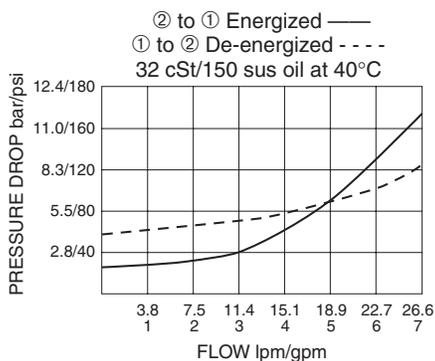
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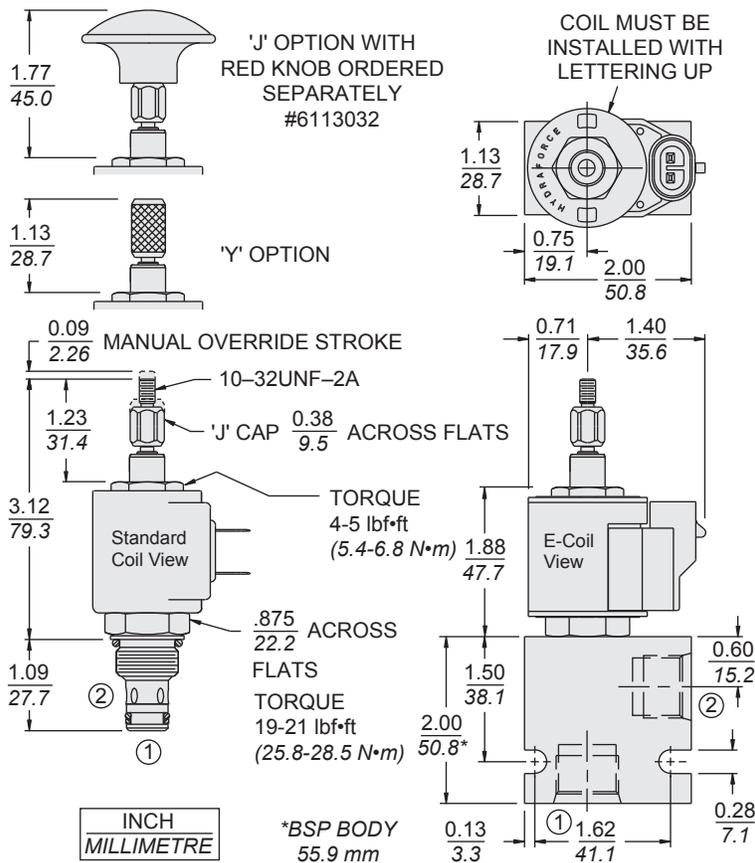
PERFORMANCE (Cartridge Only)



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 -

Option	Voltage Std. Coil	Termination (VDC) Std. Coil
Cable Adapter J	0 Less Coil**	DS Dual Spades
Knurled Knob Y	10 10 VDC†	DG DIN 43650
	12 12 VDC	DL Leadwires (2)
	24 24 VDC	DL/W Leads w/Weatherpak® Connectors
	36 36 VD	DR Deutsch DT04-2P
	48 48 VDC	Termination (VAC) Std. Coil
	24 24 VAC	AG DIN 43650
	115 115 VAC	AP 1/2 in. Conduit
	230 230 VAC	Termination (VDC) E-Coil
	**Includes Std. Coil Nut	ER Deutsch DT04-2P (IP69K Rated)
	† DS, DW or DL terminations only	EY Metri-Pack® 150 (IP69K Rated)
		Coils with internal diode are available. Consult factory.
Seals	E-Coil	
Buna N (Std.) N	10 10 VDC	
Fluorocarbon V	12 12 VDC	
	20 20 VDC	
	24 24 VDC	