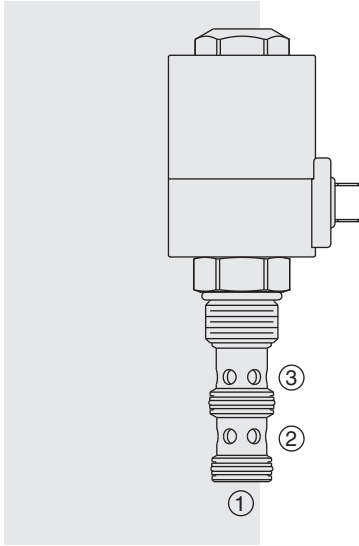


SV12-34 Spool, 2-Position, 3-Way



DESCRIPTION

A solenoid-operated, two-position, three-way, direct-acting spool-type, screw-in hydraulic cartridge valve.

OPERATION

When de-energized, the **SV12-34** allows flow between ② and ①, while blocking flow at ③. When energized, the spool shifts to allow flow between ③ and ②, while blocking flow at ①. While port 1 may be fully pressurized, it is not intended to be used as the inlet.

FEATURES

- Manual override options.
- Continuous-duty rated solenoid.
- Hardened spool and cage for long life.
- Optional coil voltages and terminations.
- All ports may be fully pressurized.
- Heavy-duty waterproof E-Coils rated up to IP69K.

RATINGS

Operating Pressure: 240 bar (3500 psi) max.

Proof Pressure: 483 bar (7,000 psi)

Burst Pressure: 690 bar (10,000 psi)

Flow Rating: See Performance Chart

Leakage: 410 ml/minute (25 cu. in./minute) at 240 bar (3500 psi) max per NFPA/T3.5.15M-1986.

Transition: Open

Temperature: -40 to 100 °C (-40 to 212 °F) with Buna N seals; -26 to 204 °C (-15 to 400 °F) with fluorocarbon seals; -54 to 107 °C (-65 to 225 °F) with polyurethane seals

Response Time: Pull-In: 60 ms Drop-Out: 35 msec. Indication of shift with nominal voltage Pull-In: 100 msec Drop-Out: 80 msec per NFPA/T3.5.30-19xx

Initial Coil Current Draw at 20 °C: 2.6A at 12 VDC

Coil Duty Rating: See Chart

Coil Voltage Range: ±15% of nominal at 70°C (158°F) max ambient temperature

Coil Power: 32 watts

Weather Rating: IP67 (with integral connectors)

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

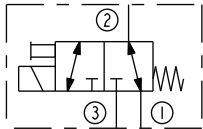
Cavity: VC12-3; See page 9.112.1

Cavity Tool: CT12-3XX; See page 8.600.1

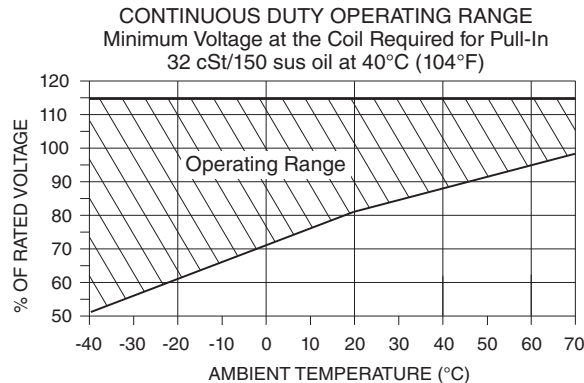
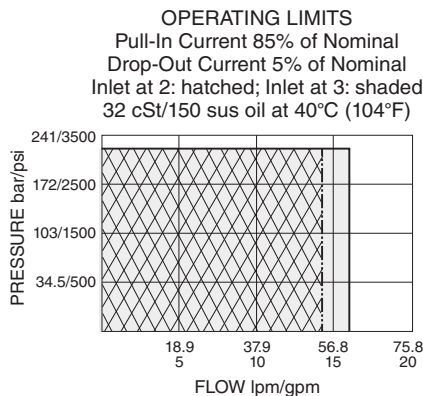
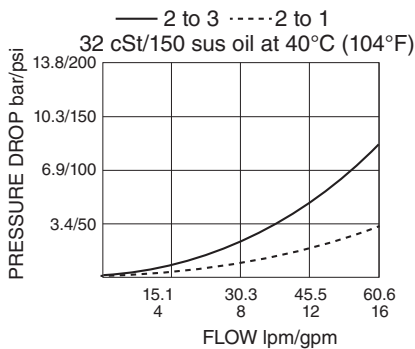
Seal Kit: SK12-3X-MM; See page 8.650.1

E-Coil Nut: Part No. 7085180

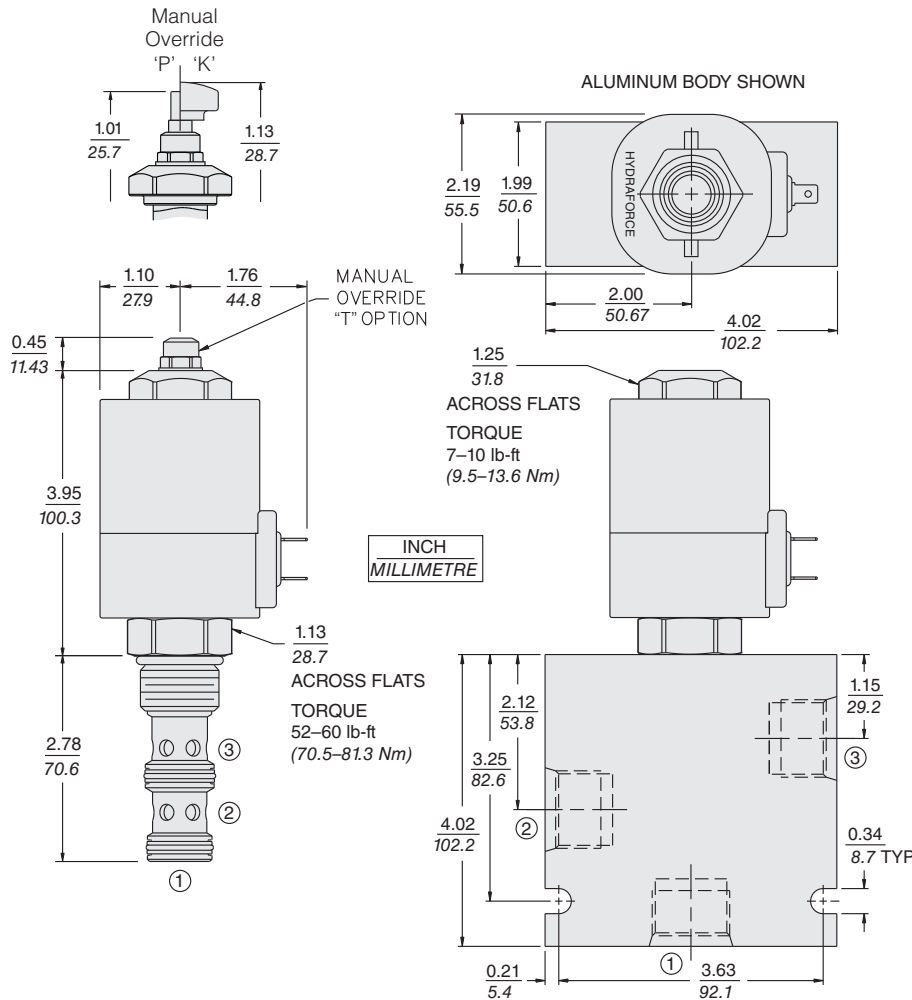
ISO SYMBOL



PERFORMANCE (Cartridge Only)



DIMENSIONS



MATERIALS

Cartridge: Weight: 0.39 kg (0.87 lb)
Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and TFE back-ups standard.

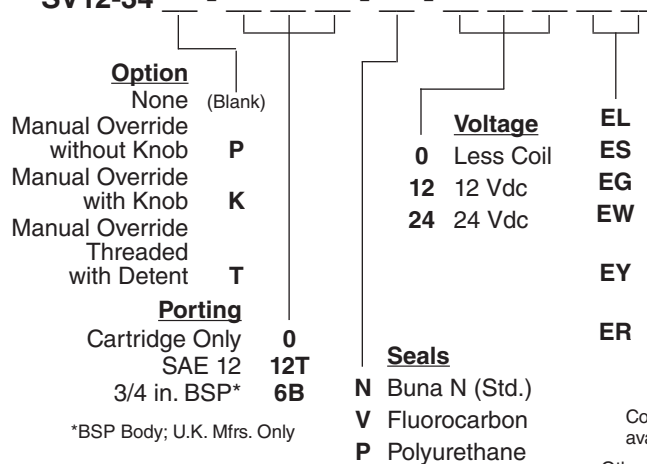
Standard Ported Body: Weight: 0.98 kg (2.15 lb)
Anodized high-strength aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.012.1.

E-Coil: Weight: 0.87 kg (1.92 lb)
Fully encapsulated with rugged external metal shell.

Rated up to IP69K with integral connectors. See page 3.400.1.

TO ORDER

SV12-34



Coils with internal diode are available. Consult factory.

Other coil voltages may be available for OEM applications. Consult factory.