

HYDRAULICKÉ SYSTÉMY



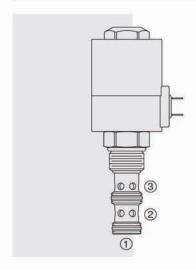


UKŁADY HYDRAULICZNE

ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

SOLENOID VALVES

SV12-33 Spool, 2-Position, 3-Way



DESCRIPTION

A solenoid-operated, two-position, three-way, direct-acting spool-type, screw-in hydraulic cartridge valve, intended as a bidirectional blocking valve.

OPERATION

When de-energized, the SV12-33 allows flow between ③ and ① while blocking flow at ②. When energized, the spool shifts to allow flow between ② and ① while blocking flow at ③.

While port ① may be fully pressurized, it is not intended to be used as the inlet.

FEATURES

- · Bidirectional operation.
- · 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) max Burst Pressure: 690 bar (10,000 psi) max Flow Rating: See Performance Chart

Leakage: 410 cc/minute (25 cu. in./minute) at 240 bar (3500 psi)
Temperature: -40 to 100 °C (-40 to 212 °F) with Buna N seals;
-26 to 204 °C (-15 to 400 °F) with fluorocarbon seals

Coil Duty Rating: See Chart

Response Time: Pull-In: 90 msec Drop-Out: 17 msec; Indication of shift with nominal voltage: Pull-In: 130 msec; Drop-Out: 128 msec per NFPA/T3.5.30-19xx

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

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

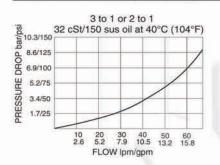
Cavity Tool: CT12-3XX; See page 8.600.1 Seal Kit: SK12-3X-MM; See page 8.650.1

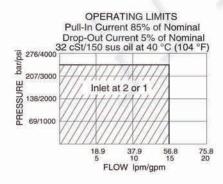
E-Coil Nut: Part No. 7085180

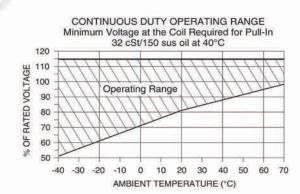
ISO SYMBOL



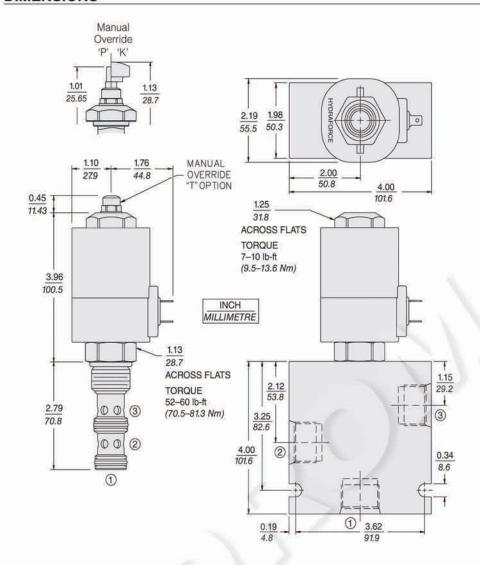
PERFORMANCE (Cartridge Only)







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

