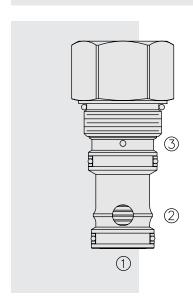
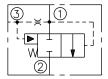
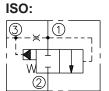
EV20-S34 Vented Spool-Type Logic Element



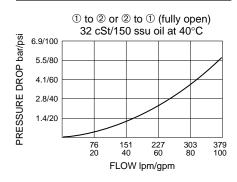
SYMBOLS

USASI:





PERFORMANCE (Cartridge Only)



DESCRIPTION

A spool-type, screw-in, cartridge-style, hydraulic directional element, with multifunction potential when used with other directional, pressure, or flow control devices.

OPERATION

The **EV20-S34** is a spring-biased blocking valve which will shift to allow full flow from ① to ② only when ③ is vented to create a pressure drop across the internal orifice which exceeds the pressure value of the selected bias spring force.

EV20-S34 is a vent-to-open directional valve.

FEATURES

- Multiple function/application potential.
- Smooth shift transition.
- · Low pressure drop.
- · Industry common cavity.

RATINGS

Maximum Operating Pressure: Cartridge Only: Ports ① & ②: 345 bar (5000 psi). Port ③: 320 bar (4600 psi); Polyurethane seals are recommended for 5000 psi operation. Aluminum bodies for this product are rated for 207 bar (3000 psi).

Flow: See Performance Chart

Internal Leakage: 1Î I cc/minute (1Đ cu. in./minute) max. at 320 bar (4600 psi) Bias Spring Pressure Options: 3.5 bar (50 psi); 5.5 bar (80 psi); 11.0 bar (160 psi)

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

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

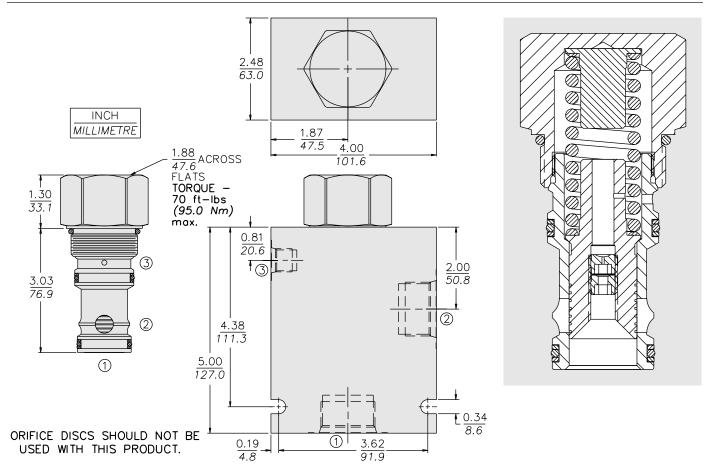
Installation: No restrictions; See page 9.020.1

Cavity: VC20-S3; See page 9.120.1 Cavity Tool: CT20-S3xx; See page 8.600.1 Seal Kit: SK20-S3x-MM; See page 8.650.1



EV20-S34

DIMENSIONS



MATERIALS

Cartridge: Weight: 0.82 kg. (1.8 lbs.)
Steel with hardened work surfaces;
Zinc-plated exposed surfaces.
Buna N O-rings and polyester
elastomer back-ups standard.

Standard Ported Body: Weight: 1.65 kg. (3.65 lbs.). Anodized highstrength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.020.1.

TO ORDER

