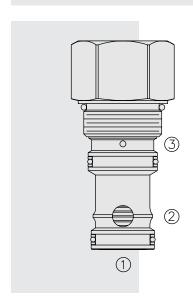
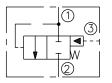
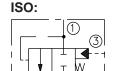
EP20-S35 Piloted Spool-Type Logic Element



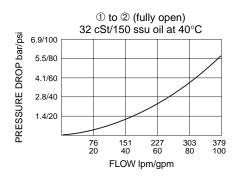
SYMBOLS

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 **EP20-S35** is a spring-biased blocking valve which will shift to allow full flow from ① to ② only when pressure at ① exceeds the cumulative pressure of ③, plus the bias spring pressure value.

EP20-S35 is a pilot-to-close directional valve.

With no pressure at 3, flow will be allowed from 1 to 2 once the bias spring force is overcome with pressure at 1.

FEATURES

- Multiple function/application potential.
- · 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 operation over 240 bar (3500 psi). Aluminum bodies are rated for 207 bar (3000 psi).

Flow: See Performance Chart

Internal Leakage: 1Î I cc/minute (1Đ cu. in./minute) max. at 345 bar (5000 psi)

Bias Spring Pressure Options: 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

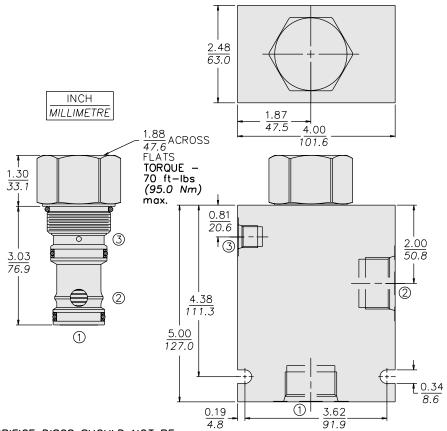
Installation: No restrictions; See page 9.020.1

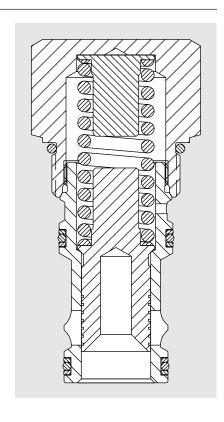
Cavity: VC20-S3; See page 9.120.1 Cavity Tool: CT20-S3xx; See page 8.600.1 Seal Kit: SK20-S3x-MM; See page 8.650.1



EP20-S35

DIMENSIONS





ORIFICE DISCS SHOULD NOT BE USED WITH THIS PRODUCT.

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

