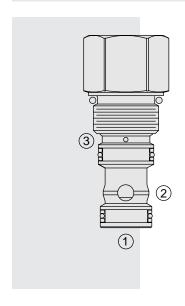
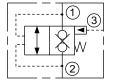
EP20-S38 Piloted Poppet-Type Logic Element



USASI:

SYMBOLS





(2)

ISO:

DESCRIPTION

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

OPERATION

The EP20-S38 is a spring-biased poppet valve which will block ① to ② or ② to ① until pressure at ① or ② exceeds the cumulative pressure at ③ and bias spring. With no pressure at ③, flow will be allowed from ① to ② or ② to ① once the bias spring force is overcome with pressure at ① or ②. When the element is in the closed state, the ratio of areas ① and ② is 1:1. and the ratio of areas ① or ② to ③ is 1:2.

FEATURES

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

RATINGS

Maximum Operating Pressure: Cartridge Only: Ports ① & ②, 241 bar (3500 psi)

Flow: See Performance Chart

Internal Leakage: 0.6 cc/minute (12 drops/minute) max. at 241 bar (3500 psi)

Bias Spring Pressure Options: 2.8 bar (40 psi); 11.0 bar (160 psi)

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

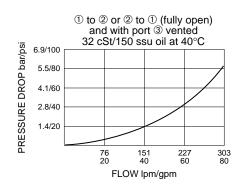
Filtration: See page 9.010.1

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

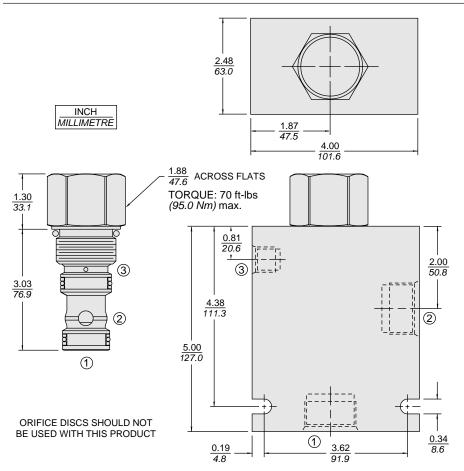
PERFORMANCE (Cartridge Only)

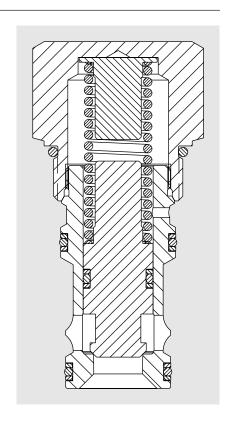




EP20-S38

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 can be made available; dimensions may differ. See page 8.020.1.

TO ORDER

