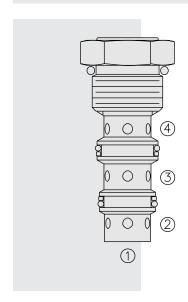
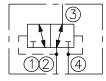
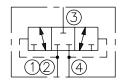
HS10-42 Low Side (Hot Oil) Shuttle, Springless



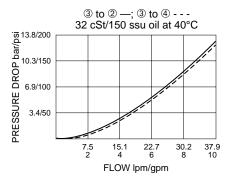
SYMBOLS

USASI/ISO: TRANSITION:





PERFORMANCE (Cartridge Only)



DESCRIPTION

A spool-type, closed in transition, 2-position, 3-way hot oil shuttle valve, which may be used on hydrostatic transmissions to direct charge pump oil to a heat exchanger or to tank.

OPERATION

With internal piloting at port ①, ② or ④, oil will flow from the port opposite of the port piloted to port ③, thus removing oil from the low-pressure side for cooling or filtration purposes. The valve is **springless**, relying solely on the internal pilot pressure signal to shift to either side. The **HS10-42** is closed in transition.

FEATURES

- Hardened parts for long life.
- Industry common cavity.

RATINGS

Operating Pressure:

HS10-42: 207 bar (3000 psi) HS50-42: 345 bar (5000 psi) Flow Rate: See Performance Chart

Internal Leakage: 115 cc/minute (7 cu. in./minute) max.

Temperature: -40 to 120°C **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: VC10-4; See page 9.110.1 Cavity Tool: CT10-4XX; See page 8.600.1

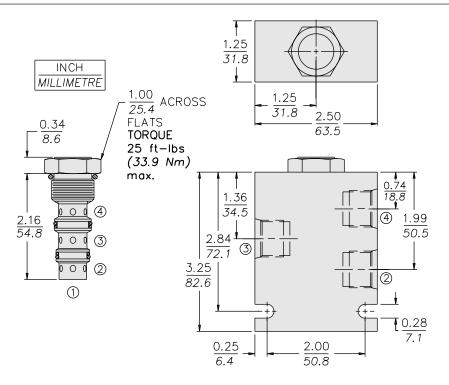
Seal Kit:

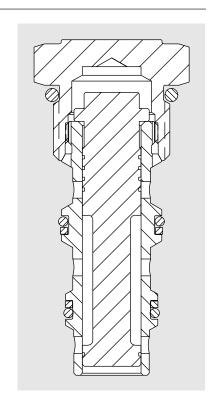
HS10-42: SK10-4N-TTT/BBB; See page 8.650.1 HS50-42: SK10-4P-TTT/BBB; See page 8.650.1



HS10-42

DIMENSIONS



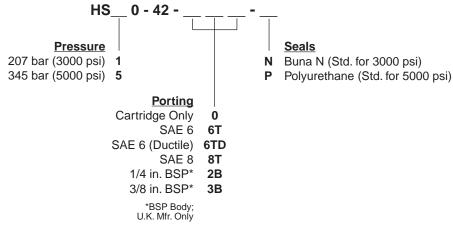


MATERIALS

Cartridge: Weight: 0.15 kg. (0.32 lbs.)
Steel with hardened work surfaces.
Zinc-plated exposed surfaces.
Buna N O-rings and polyester
elastomer back-ups standard.
Polyurethane seals optional
for high pressure.

Standard Ported Body: Weight: 0.34 kg. (0.75 lbs.) Anodized highstrength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron body required for operation over 241 bar (3500 psi); dimensions may differ. See page 8.010.1

TO ORDER



Note: Steel or Ductile body required for operation over 241 bar (3500 psi).