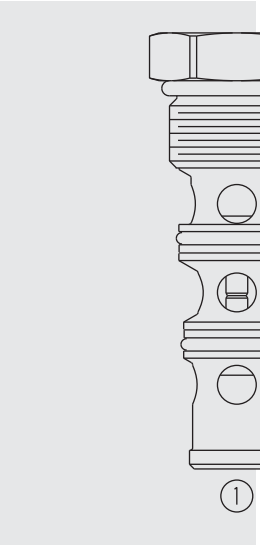
# LS10-41 Inverted Shuttle Valve




## DESCRIPTION

A screw-in, cartridge-style inverted shuttle valve, which can be used to help protect against brake or steering failure in the event of loss of pressure in either one of two accumulators.

## OPERATION

If one accumulator fails, the **LS10-41** will shift over to protect the good one. All ports are connected in neutral. When pressure at one of the two load ports exceeds the other, the poppets shuttle to allow bi-directional flow between other two ports. Typical applications include braking and steering circuits.

**Note:** Port ① should be blocked.

## FEATURES

- Hardened work surfaces.
- Industry common cavity.

## RATINGS

**Operating Pressure:** 240 bar (3500 psi)

**Flow:** 15.1 lpm (4 gpm); See Performance Chart

**Internal Leakage:** 0.15 ml per minute (3 drops per minute)

**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

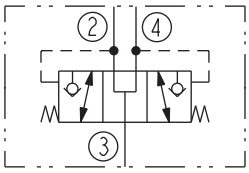
**Installation:** No restrictions; See page 9.020.1

**Cavity:** VC10-4; See page 9.110.1

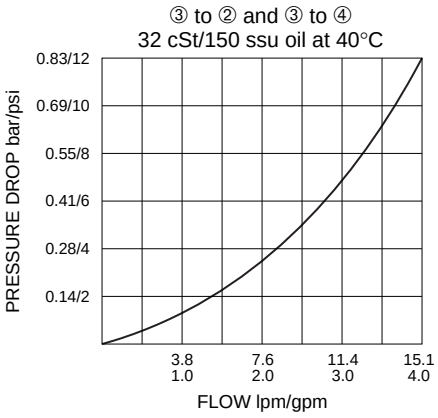
**Cavity Tool:** CT10-4XX; See page 8.600.1

**Seal Kit:** SK10-4X-TBX; See page 8.650.1

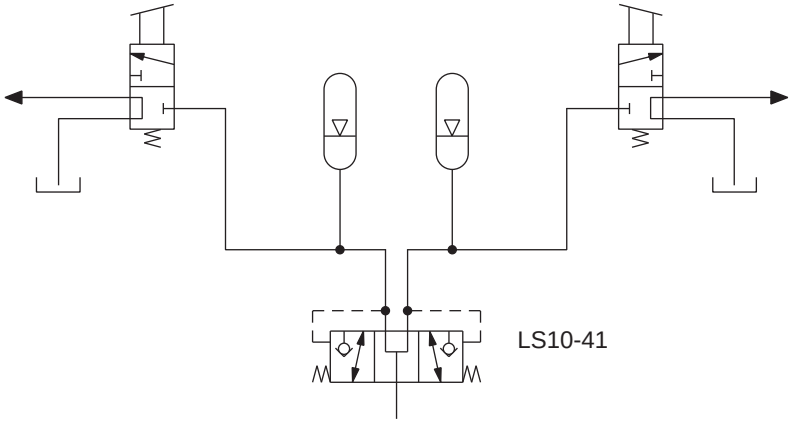
## SYMBOL



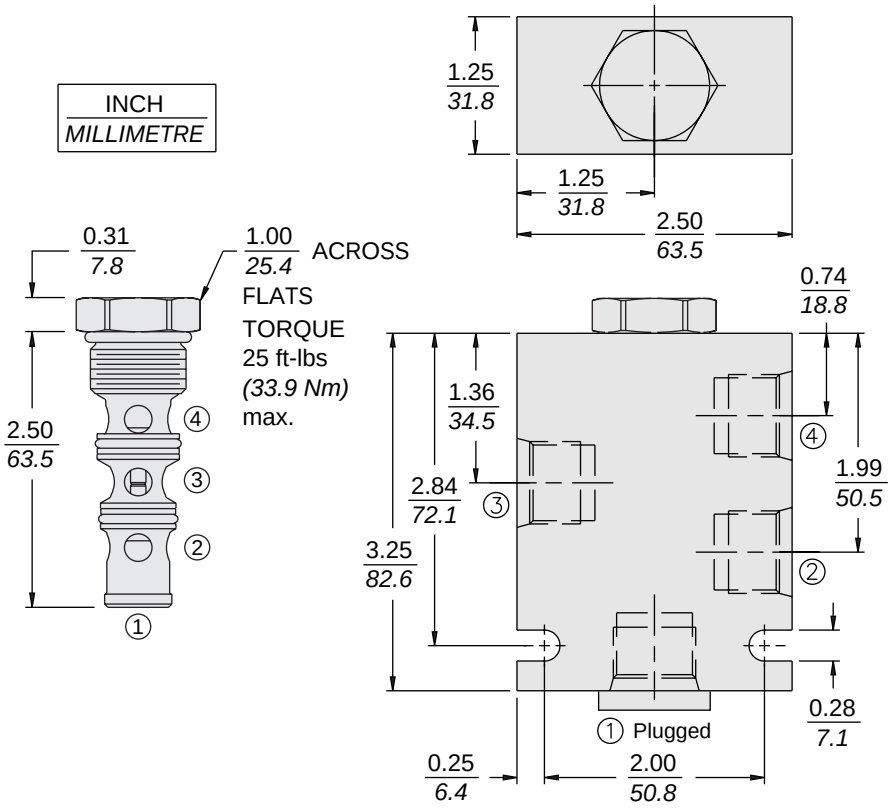

## PERFORMANCE (Cartridge Only)




## TYPICAL APPLICATION



## DIMENSIONS




## MATERIALS

**Cartridge:** Weight: 0.1 kg. (0.22 lbs.) Steel with zinc-plated exposed surfaces; Buna N O-rings and polyester elastomer back-ups standard.

**Standard Ported Body:** Weight: 0.34 kg. (0.75 lbs.) Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron steel bodies available; dimensions may differ. See page 8.010.1.

## TO ORDER

**LS10-41-** ___ ___ ___ **-** ___

| Porting | | Seals | |
|---|---|---|---|
| Cartridge Only | **0** | **N** | Buna N (Std.) |
| SAE 6 | **6T** | **V** | Fluorocarbon |
| SAE 8 | **8T** | | |
| 1/4 in. BSP* | **2B** | | |
| 3/8 in. BSP* | **3B** | | |

*BSP Body; U.K. Mfr. Only