

6.3

50L50-43 TYPE

Low Side (Hot Oil) Shuttle

Rated pressure (bar / psi)	345 / 5000
Peak flow (L/min / gpm)	45.4 / 12 (See performance chart)

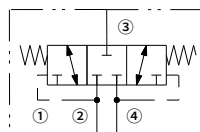
Features

- Hardened parts for long life
- Industry common cavity

Contents

Description	02
Operation	02
Ordering code	02
Materials	02
Technical data	03
Performance	03
Dimensions	04

Symbol

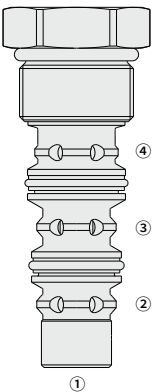


Description

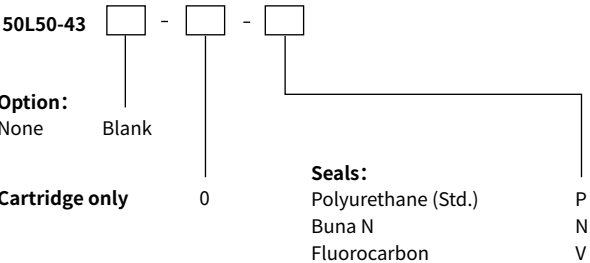
A spring-centered, spool-type, closed-in-neutral, 2-position, 3-way hot oil shuttle valve, which may be used on hydrostatic transmissions to direct charge pump oil to a heat exchanger or to tank.

Operation

With internal piloting at port ① , ② or ④ , the valve will direct oil from the port opposite of the piloted port to port ③ , thus removing oil from the low-pressure side for cooling or filtration purposes. The valve has a spring-centered spool, and is closed in neutral position.



Ordering Code



Materials

Cartridge:

Weight: 0.1 kg; Steel with hardened work surfaces. Zinc-plated exposed surfaces; Polyurethane (Std.) seal.

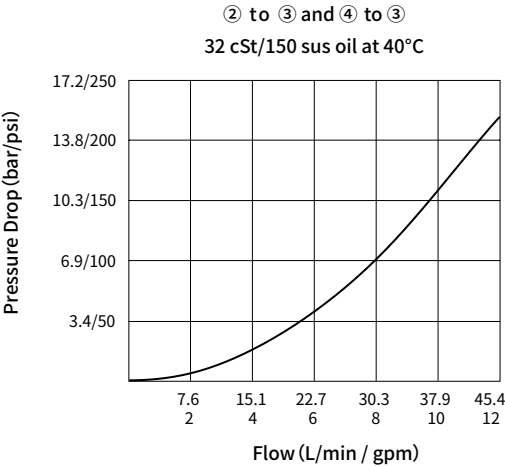
Standard Ported Body:

Anodized high-strength aluminum alloy, rated to 240 bar; Ductile iron and steel bodies available; Dimensions may differ, consult factory.

Technical Data

Rated pressure	345 bar (5000 psi)
Peak flow	See performance chart
Bias spring value	4.1 bar (60 psi)
Internal leakage	≤ 541 mL/min @ 345bar
Cavity	VC10-4
Fluid	Mineral-based or synthetics with lubricating properties
Viscosity range	7.4 to 420 mm ² /s
Temperature range	-54 to 107 °C (Polyurethane seals)
	-40 to 100 °C (Buna N seals)
	-26 to 204 °C (Fluorocarbon seals)
Degree of fluid contamination	The minimum pollution level is ISO4406 level 18/16/13, and level 15/13/11 is recommended to prolong the service life

Performance (Cartridge Only)



Dimensions

(Dimensions in mm)

