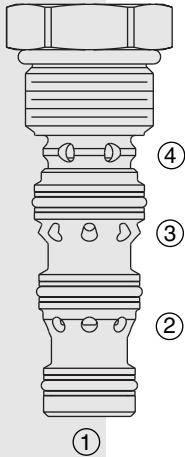


DIRECTIONAL VALVES

DC10-40 Pilot Operated Check Valve



DESCRIPTION

A dual pilot operated check valve for use in blocking or load-holding circuits. This valve has an optional thermal relief from port ④ to port ③.

OPERATION

The DC10-40 will block flow from ① to ②, and from ④ to ③. Flow is allowed in the opposite direction when pressure is applied to port ② and/or port ④.

The valve has a 3:1 pilot ratio, so at least 1/3 of the load pressure at port ① or ④ is required at the pilot lines (ports ② or ③) to open the flow passage to allow flow from ports ① or ④.

The check is spring-biased at 25 psi to assure holding in a static or no load condition.

FEATURES

- Hardened seat for long life and low leakage.
- Low pressure drop.
- Optional thermal relief.

RATINGS

Operating Pressure: Inlet: 240 bar (3500 psi)

Flow: Rated Inlet Flow: 30.3 lpm (8 gpm); See performance chart.

Pilot Ratio: 3:1

Check Spring Bias: 1.7 bar (25 psi)

Thermal Relief Crack Pressure Range: 310 to 386 bar (4500 to 5600 psi)

Thermal Relief Valve Leakage: 5 drops per minute (0.25 ml per minute) at up to 85% of crack pressure.

Maximum Check Valve Leakage: 5 drops per minute (0.25 ml per minute) at 240 bar (3500 psi).

Temperature: -40 to 120°C with Buna N 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)

Installation: No restrictions; See page 9.020.1

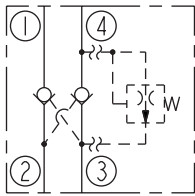
Cavity: VC10-4; See page 9.110.1

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

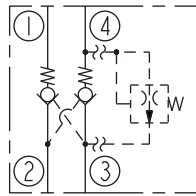
Seal Kit: SK10-4X-MMM; See page 8.650.1

SYMBOLS

USASI:



ISO:



PERFORMANCE (Cartridge Only)

