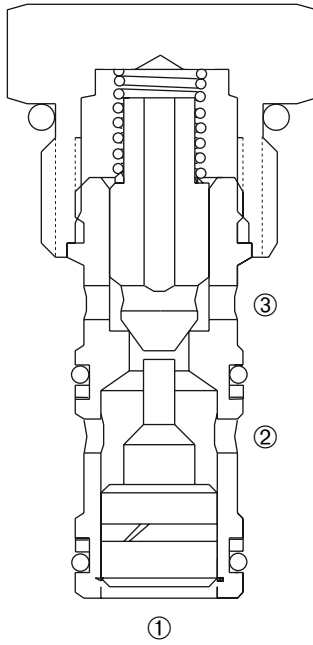


DPC-100

Pilot To Open, Poppet-Type Cartridge Check Valve



DESCRIPTION

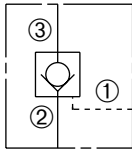
A cartridge valve designed to allow free flow in one direction while preventing flow in the opposite direction. Reverse flow can be achieved by reaching the required pilot pressure. This valve is commonly used as a load-holding or blocking valve.

OPERATION

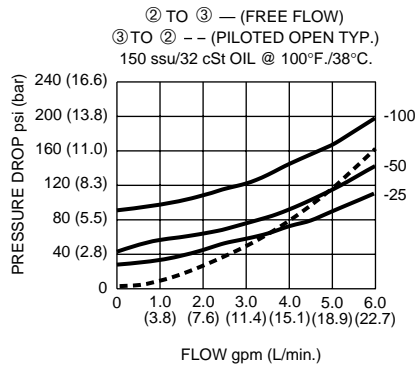
Pressure at ② overcomes the spring-bias poppet and allows free flow to ③. Flow in the opposite direction, from ③ to ②, is blocked by the poppet. When the required pilot pressure is achieved at ①, the poppet unseats and allows flow between ③ and ②. The pilot piston area to poppet seat area ratio is 3.5 to 1.

SYMBOL

USASI / ISO



PRESSURE DROP VS. FLOW



FEATURES and BENEFITS

- Hardened poppet and seat for long life.
- Low leakage.
- Industry common cavity.
- Compact size.

SPECIFICATIONS

Operating Pressure: 3000 PSI (207 Bar)

Flow: See PRESSURE DROP VS. FLOW graph.

Internal Leakage: 5 drops/min. max. at 3000 PSI (207 Bar)

Crack Pressures: 25 PSI (1.7 Bar)

50 PSI (3.4 Bar)

100 PSI (6.9 Bar)

Pilot Ratio: 3.5 to 1

Temperature: -30°F to +250°F (-35°C to +120°C)

Recommended Filtration: Critical Application – ISO 16/12

Non-Critical Application – ISO 19/15

Fluids: Mineral-based fluids.

For other fluid compatibility, consult factory.

Cavity: 100-3, see page 0.21

Cavity Tool: See page 0.21

Body Material: Anodized 6061T6 aluminum

alloy rated at 3000 PSI (207 Bar).

