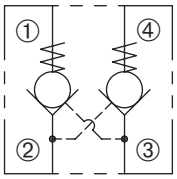
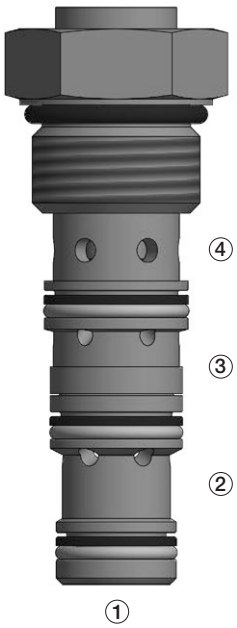
DDPC-100-P

Dual Pilot To Open, Poppet-Type Check Valve

Deltrol FLUID PRODUCTS

SERIES 10





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 or ③ overcomes the spring-bias poppet and allows free flow to ① or ④ respectively. Flow in the opposite direction, from ① to ② or ④ to ③, is blocked by the poppet. When the required pilot pressure is achieved at ②, the poppet unseats and allows flow between ④ and ③. When the required pilot pressure is achieved at ③, the poppet unseats and allows flow between ① and ②. The pilot piston area to poppet seat area is 4:1.

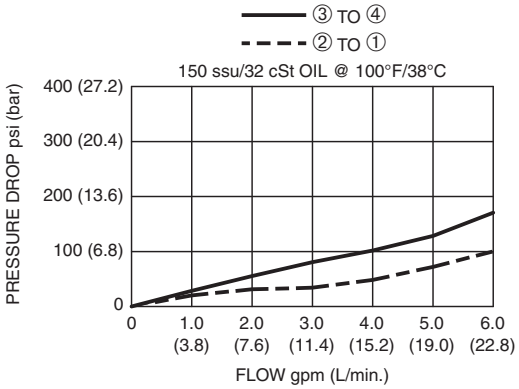
FEATURES and BENEFITS

- Hardened seat for long life and low leakage.
- Industry common cavity.

SPECIFICATIONS

Operating Pressure: 4000 PSI (276 Bar)
Flow: Nominal Flow 6 gpm (22.8 l/min)
Internal Leakage: 5 drops/min (0.25 cc/min) aty 3000 PSI (207 Bar)
Temperature: -30°F to +250°F (-35°C to +120°C).
Crack Pressure: 25 PSI (1.7 Bar)
Pilot Ratio: 4:1
Recommended Filtration: ISO 17/15/13
Fluids: Mineral-based fluids.
Cavity/Cavity Tool: 100-4, see page 11.10.4
In-Line Body Material: Anodized 6061T6 aluminum allow rated at 3000 PSI (207 Bar).

PRESSURE DROP VS. FLOW



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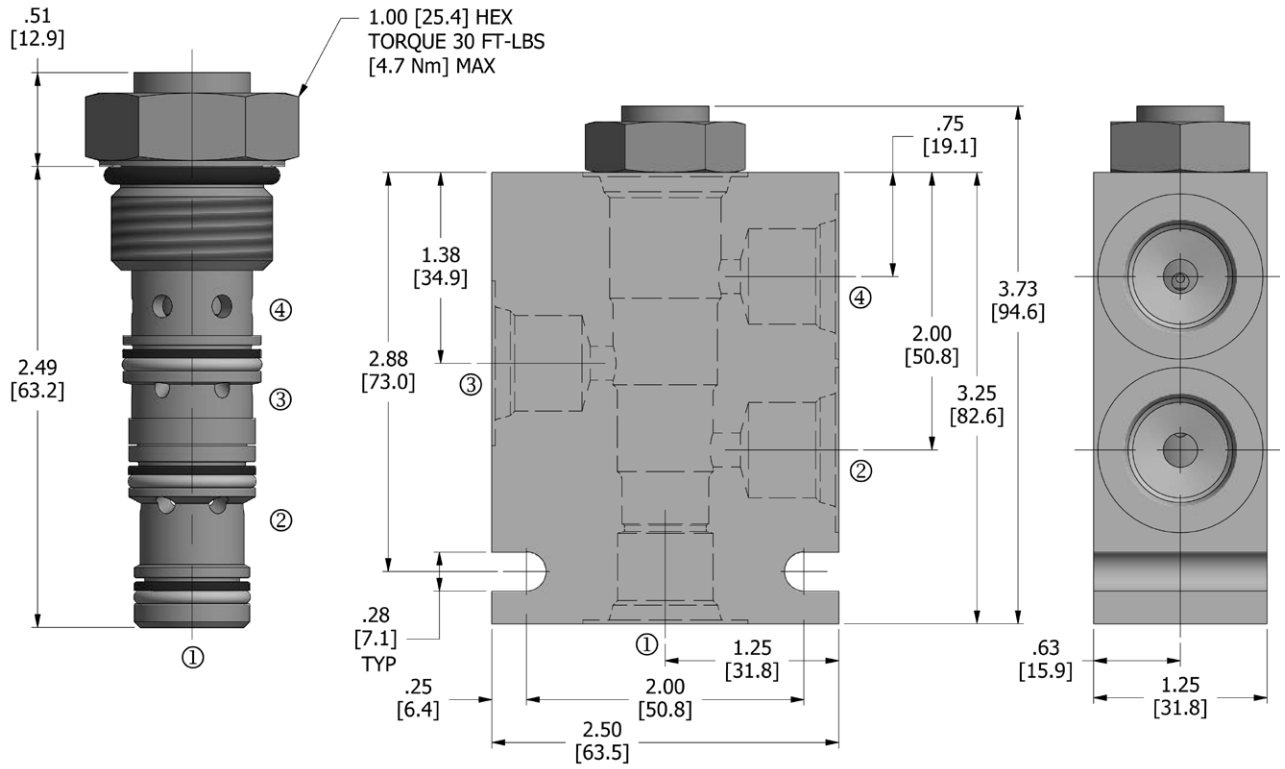
DIMENSIONS Inches [Millimeters]



HOW TO ORDER

DDPC	-	100	-	P	-	*	-	***	-	**
Dual Pilot-Operated Check Valve		Cavity		Poppet		Seals		Crack Pressure		Porting

Seals		Seal Kit
N	Buna N	
V	Viton	

Crack Pressure	
025	25 psi (1.7 Bar)

Porting†		In-Line Body w/o Cartridge
omit	Cartridge only	
2N	1/4 PTF	B-100-4-2N
3N	3/8 PTF	B-100-4-3N
6T	SAE 6	B-100-4-6T
8T	SAE 8	B-100-4-8T

† Other options available – consult factory

All variations may not be configurable. Minimum order quantities may be required on other models. Contact Deltrol Fluid Products for complete details.