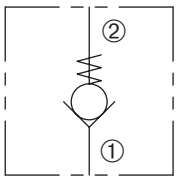
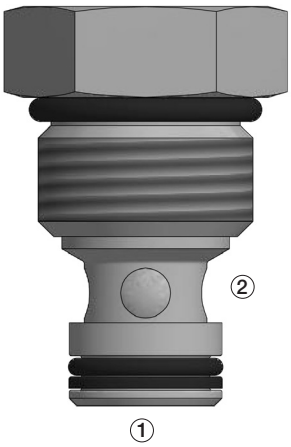
DCV-100-B

Direct-Acting, Ball-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. This valve is commonly used as a load-holding or blocking valve.

OPERATION

Pressure at ① overcomes the spring-bias ball and allows free flow to ②. Flow in the opposite direction, from ② to ①, is blocked by the ball.

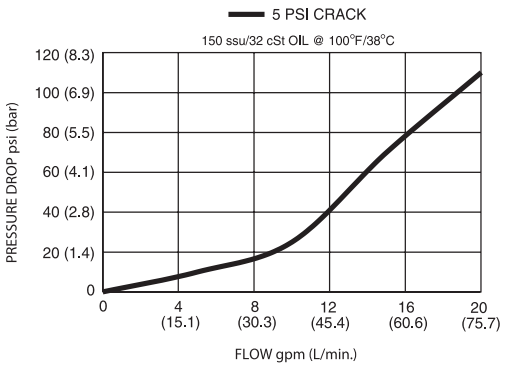
FEATURES and BENEFITS

- Chrome alloy ball for long life.
- Low leak.
- Industry common cavity.

SPECIFICATIONS

Operating Pressure: 3000 psi (207 bar)
Flow: See PRESSURE DROP VS. FLOW graph.
Nominal Flow 20 gpm (75.7 lpm)
Internal Leakage: 2 drops/min max. at 3000 psi (207 bar)
Crack Pressure: 5 psi (0.3 bar)
15 psi (1.0 bar)
30 psi (2.1 bar)
60 psi (4.1 bar)
100 psi (6.9 bar)
140 psi (10.0 bar)
Temperature: -30°F to +250°F (-35°C to +120°C)
Recommended Filtration: Critical Application – ISO 17/15/13
Non-Critical Application – ISO 20/18/14
Fluids: Mineral-based fluids.
For other fluid compatibility, consult factory.
Cavity/Cavity Tool: 100-2, see page 11.10.2
In-Line Body Material: Anodized 6061T6 aluminum alloy rated at 3000 psi (207 bar).

PRESSURE DROP VS. FLOW



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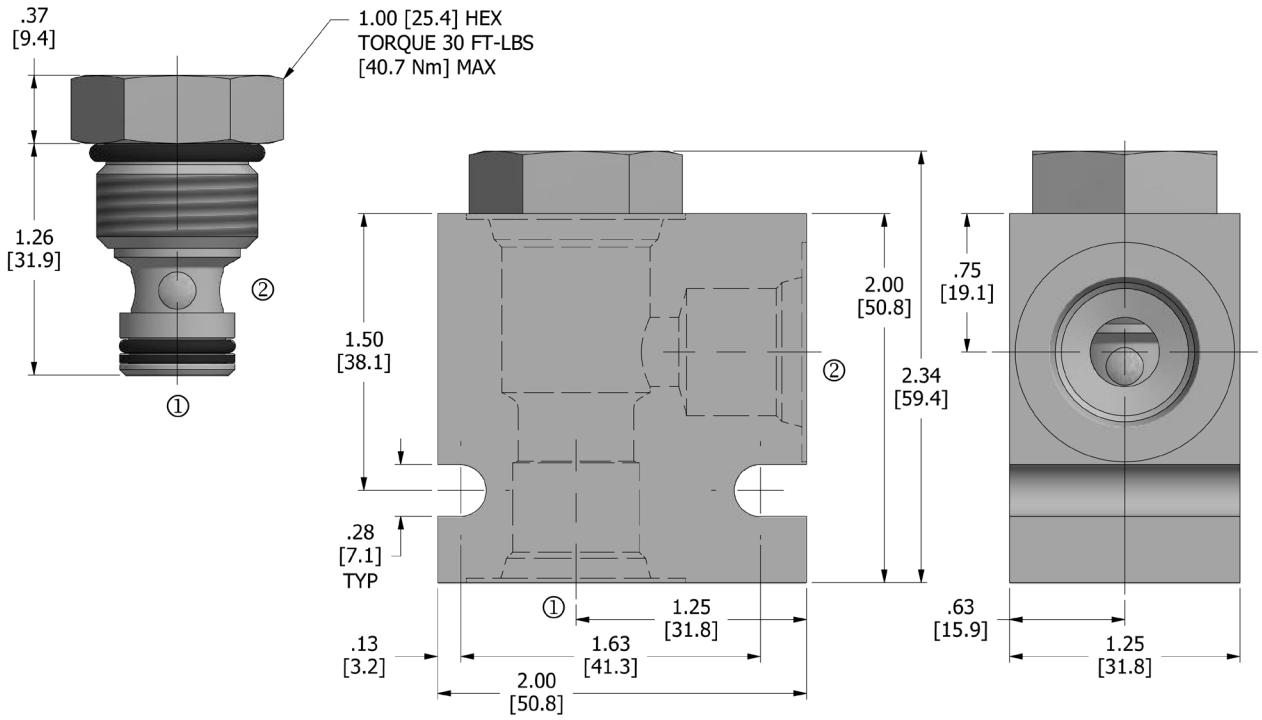
DIMENSIONS Inches [Millimeters]



HOW TO ORDER

DCV	-	100	-	B	-	*	-	**	-	**
Check Valve		Cavity		Ball		Seals		Crack Pressure		Porting

Seals		Seal Kit
N	Buna N	DSK-100-2-N-A
V	Viton	DSK-100-2-V-A

Crack Pressure	
5	5 psi (0.3 bar)
15	15 psi (1.0 bar)
30	30 psi (2.1 bar)
60	60 psi (4.1 bar)
100	100 psi (6.9 bar)
140	145 psi (10.0 bar)

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

† Other options available – consult factory

Valve and In-Line Body are supplied individually and need to be assembled. For a completed assembly consult the factory.

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