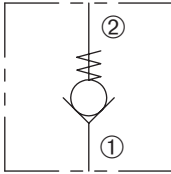


DCV-100-PB

Direct-Acting, Ball-Type
Check Valve

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

- Guide ball assembly
- Torlon® ball for positive shut-off.
- 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 L/min).

Internal Leakage: Less than 2 drops/min. max. at 3000 PSI (207 Bar)

Crack Pressure: 5 PSI (0.3 Bar)

10 PSI (0.7 Bar)

30 PSI (2.1 Bar)

60 PSI (4.1 Bar)

100 PSI (6.9 Bar)

Temperature: -30°F to +220°F (-35°C to +104°C)

Recommended Filtration: Critical Application – ISO 17/15/13

Non-Critical Application – ISO 20/18/14

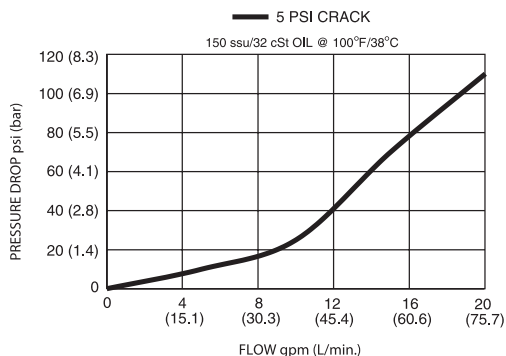
Fluids: Mineral-based fluids.

For other fluid compatibility, consult factory.

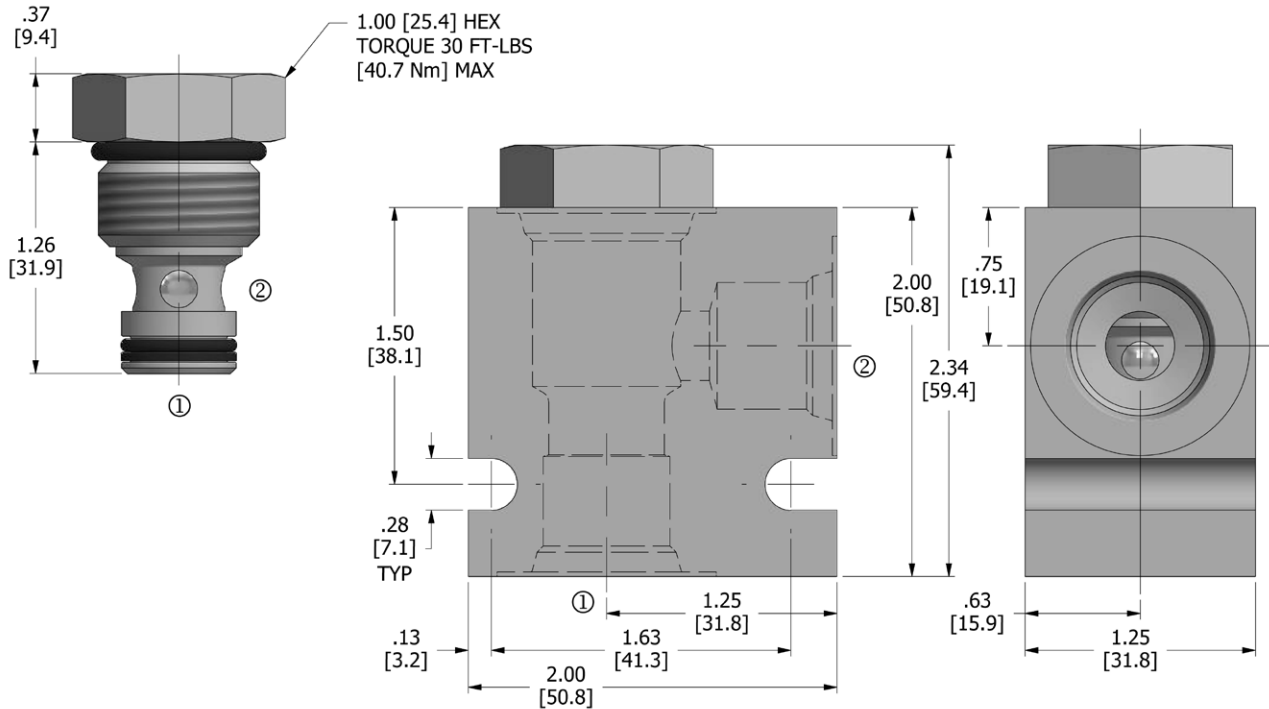
Cavity/Cavity Tool: 100-2, see page 11.10.2

In-Line Body Material: Anodized 6061T6 aluminum alloy rated at 3000 PSI (207 Bar).

PRESSURE DROP VS. FLOW



DIMENSIONS Inches [Millimeters]



HOW TO ORDER



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)
10	10 psi (0.7 bar)
30	30 psi (2.1 bar)
60	60 psi (4.5 bar)
100	100 psi (6.9 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

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