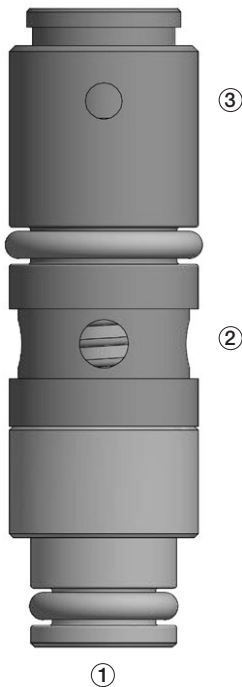
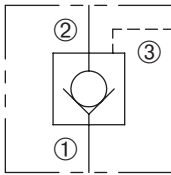


# ZPTC-63

Pilot to Close  
Check Valve

## ZERO PROFILE



## DESCRIPTION

A cartridge valve designed to allow free flow in one direction, while preventing flow in the opposite direction. Free flow can be blocked by reaching the required pilot pressure. 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. When the required pilot pressure is achieved at ③, the ball is held closed to block flow between ① and ②. The pilot piston area to ball seat area ratio is 3:1.

## FEATURES and BENEFITS

- Slip-in style.
- Compact size.

## SPECIFICATIONS

**Operating Pressure:** 3000 PSI (207 Bar)

**Flow:** See PRESSURE DROP VS. FLOW graph.

**Internal Leakage:** 5 drops/min max.

**Crack Pressure:** 25 PSI (1.7 Bar)  
50 PSI (3.4 Bar)  
100 PSI (6.9 Bar)

**Pilot Ratio:** 3:1

**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.

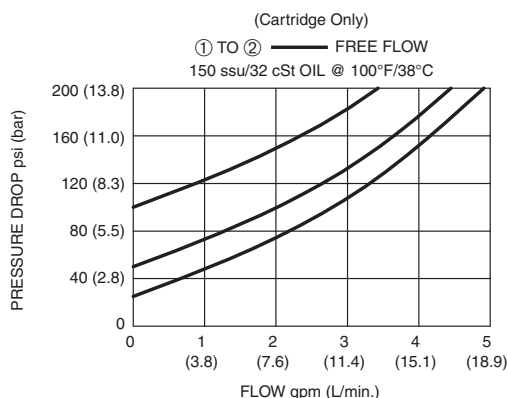
For other fluid compatibility, consult factory.

**Cavity/Cavity Tool:** ZP63, see page 11.06.3

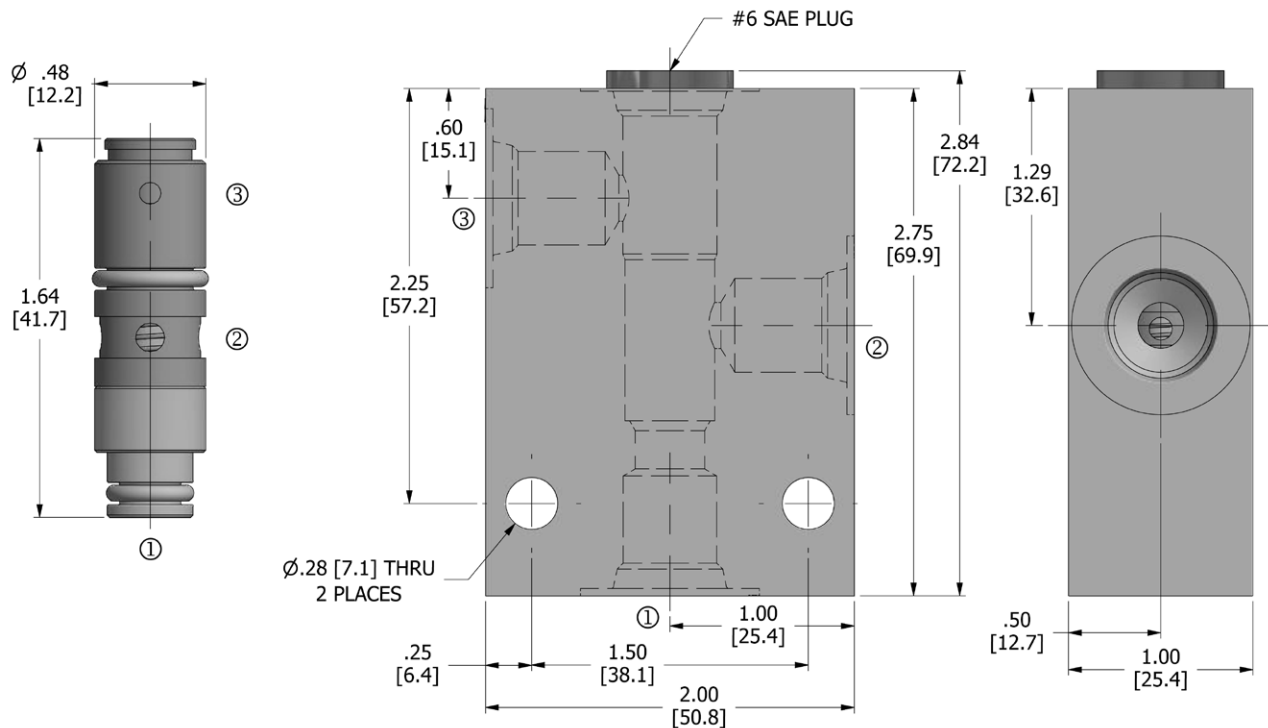
**Installation/Removal Tool:** Consult factory.

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

## PRESSURE DROP VS. FLOW



## DIMENSIONS Inches [Millimeters]



## HOW TO ORDER

**ZPTC** - **63** - **\*** - **\*\*** - **\*\***  
 Pilot To Close    Cavity    Seals    Crack Pressure    Porting  
 Check Valve

Seals		Seal Kit
U	Urethane	(1) 10195-24
		(1) 10195-25

Crack Pressure	
25	25 psi (1.7 Bar)
50	50 psi (3.4 Bar)
100	100 psi (6.9 Bar)

Porting		In-Line Body w/o Cartridge
omit	Cartridge only	
4T	SAE 4	B-ZP63-A-4T
6T	SAE 6	B-ZP63-A-6T

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