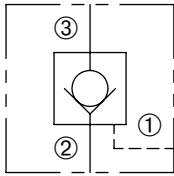


# ZPC-63

Pilot To Open, Ball-Type  
Check Valve

## ZERO PROFILE

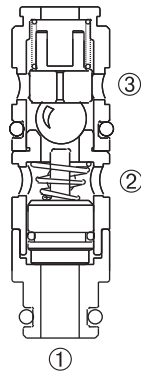


## DESCRIPTION

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



## FEATURES and BENEFITS

- Slip in style.
- Torlon® ball for positive shut-off.
- Low leak.
- Compact size.
- Sealed pilot piston.

## SPECIFICATIONS

**Operating Pressure:** 1500 PSI (103 Bar)

**Flow:** See PRESSURE DROP VS. FLOW graph.  
Nominal Flow 3 GPM (11.4 L/min.)

**Internal Leakage:** 2 drops/min. max. at 1500 PSI (103 Bar)

**Crack Pressure:** 30 PSI (2.1 Bar)

**Pilot Ratio:** 3 to 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.

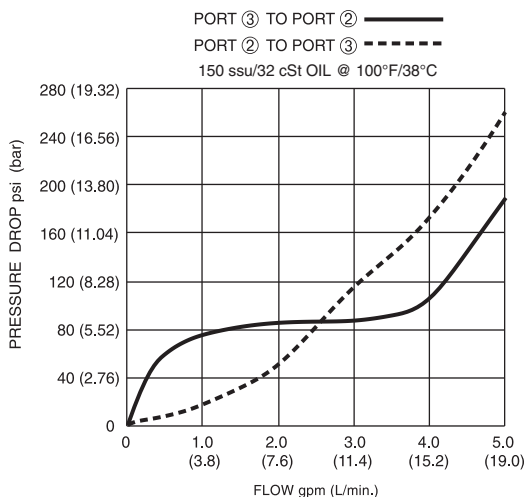
For other fluid compatibility, consult factory.

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

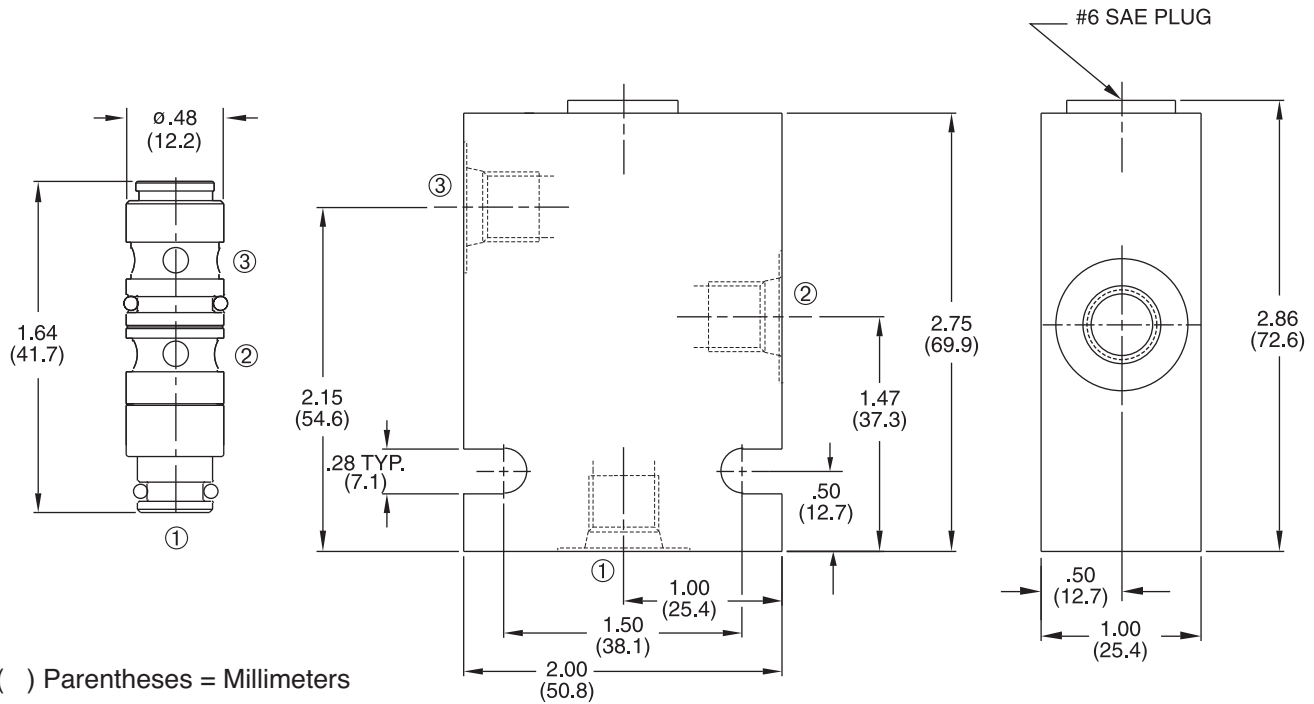
**Installation/Removal Tool:** Consult factory

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

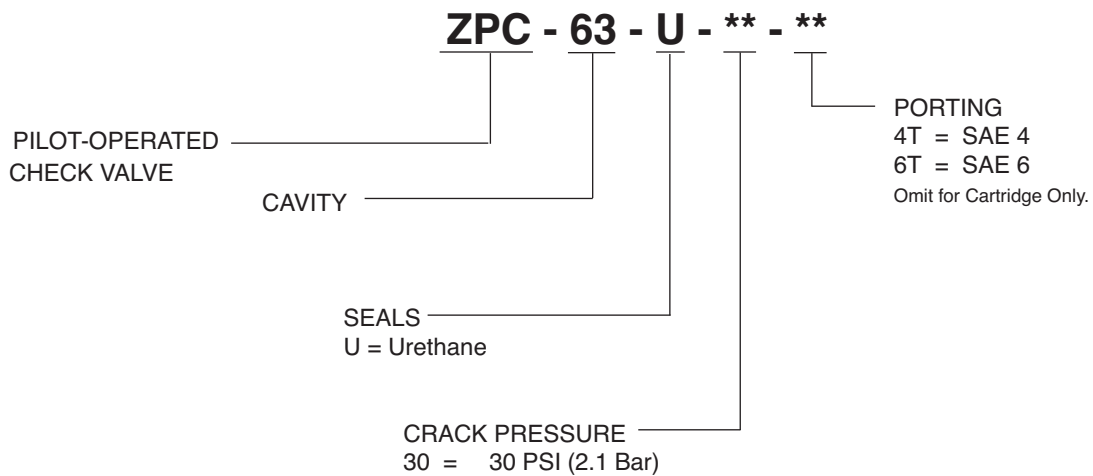
## PRESSURE DROP VS. FLOW



## INSTALLATION DIMENSIONS



## HOW TO ORDER



SOLENOID  
CHECK  
MOTION CONTROL  
FLOW CONTROL  
RELIEF  
PRESSURE CONTROL  
SEQUENCE  
SHUTTLE  
DIRECTIONAL VALVES  
ACCESSORIES  
TECHNICAL DATA