

BRAND
HYDRAULICS Co.

Made in the Heartland of America
Serving the World

Engineering & Manufacturing Solutions

PC

Pilot Check Valves

Specifications:

- Pressure rating 3000 psi (207 bar).
- See creating a model code for flow capacity and port sizes.
- Weighs 0.7 lbs (0.3 kg).
- 30 Micron Filtration Recommended.



PO37C



PO50C

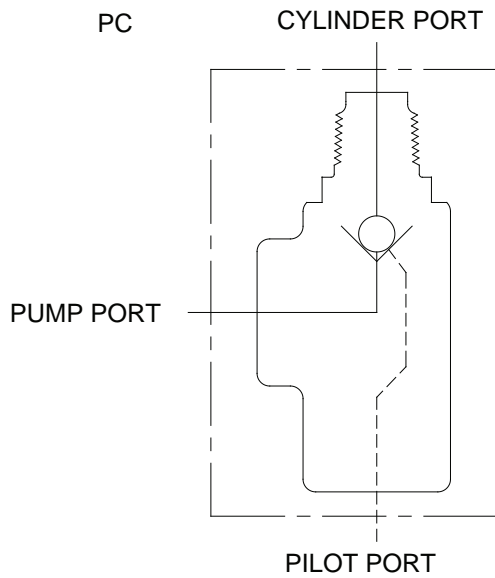


ISO 9001:2008 WITH DESIGN
Certificate #02.002.1



PC

Pilot Check Valve



PC37C



PC50C

MATERIALS:

- Cast Iron Body
- Buna N O'Rings
- Chrome Alloy Steel Ball
- Delrin Check Seat

FEATURES:

- EVERY PC IS TESTED for leakage.
- OPTIONAL O'RING PORTS to eliminate leakage.
- STEEL BALL will not jam, lock or seize and will always open.
- DERLIN CHECK SEAT for zero leakage.

PC – GENERAL INFORMATION:

The Brand, pilot check valve is precision built, dependable and low priced. In one direction oil opens a check valve and passes through the valve and into a cylinder. As the check valve closes the oil is positively trapped in the cylinder with a check ball valve. Applying pilot pressure to the pilot port of this valve moves a piston stem against the ball to push the check ball off its seat thus allowing the oil to leave the cylinder. The PC is intended to be a positive safety check, it is not intended to be a metering or counter balance valve. The pilot piston ratio is 3.2 to 1 (PC37C and PC6C) and 4.0 to 1 (PC50C and PC8C), this means that it only requires 0.312 and 0.25 as much pressure on the pilot piston as is being trapped in the cylinder by the check ball.

PC – EXAMPLES OF COMMON MODEL CODES:

PC37C.....Pilot operated check valve, rated for 0-8 gpm (0-30.2 lpm), 3/8" NPT inlet/outlet port, and 1/4" NPT pilot port.

PC50C.....Pilot operated check valve, rated for 0-16 gpm (0-60.5 lpm), 1/2" NPT inlet/outlet port, and 1/4" NPT pilot port.

PC6C.....Pilot operated check valve, rated for 0-8 gpm (0-30.2 lpm), #6 SAE all ports.

PC8C.....Pilot operated check valve, rated for 0-16 gpm (0-60.5 lpm), #8 SAE inlet/outlet port, and #6 SAE pilot port.

Note: Also available with steel check seat, add -S to model code, as per example: PC50C-S

DIMENSIONAL DATA: Inches & [millimeters] PC

