POCI-12

PILOT OPERATED CHECK VALVE POPPET TYPE,
PILOT TO OPEN, 3 TO 1 PILOT RATIO.

Torque:
Steel = 70/75 Ft-Lb. [95/102 Nm]
Aluminum = 55/60 Ft-Lb. [74/81 Nm]

Note: Cavity bottom hole must allow for poppet extension (.750 Dia.).

For aluminum or steel valve housing configurations see page 0-023-1.

Reference: 520-P-011030-EN-00/09.2015
# PILOT OPERATED CHECK VALVE

**POPCET TYPE, PILOT TO OPEN, 3 TO 1 PILOT RATIO.**

## DESCRIPTION

This unit is a SCREW IN, cartridge type, guided poppet, hydraulic pilot operated check valve, for use as a blocking or load holding device for high pressure applications.

## OPERATIONS

This valve allows free flow from port 2 to port 1 and blocks flow from port 1 to port 2 or holding a load. Flow will be allowed from port 1 to port 2 when sufficient pilot pressure is applied to port 3. This pilot operated check valve has a 3 to 1 pilot ratio, meaning that it takes at least one-third of the load pressure held at port 1 that is required at port 3 to open the valve.

## FEATURES AND BENEFITS

- A low friction seal on pilot piston is standard.
- A separate heavy spring assures fast return of the pilot piston for a very quick, reliable and positive valve re-seat.
- Optional screw type manual load release is available.
- All external carbon steel parts are plated for longer life against the elements.
- All cartridge valves are 100% functionally tested.

## SPECIFICATIONS

- **OPERATING PRESSURE:** 5,000 PSI [350 Bar]
- **PROOF PRESSURE:** 10,000 PSI [700 Bar]
- **FLOW:** 35.0 GPM [132.4 l/m] nominal. See performance chart.
- **PILOT RATIO:** 3 TO 1
- **INTERNAL LEAKAGE:** 5 drops per minute maximum @ 5,000 PSI [350 Bar]
- **VALVE HOUSINGS:** 2500 PSI [175 Bar] = Aluminum - Anodized. 5000 PSI [350 Bar] = Steel - Unplated.
- **OPERATING TEMPERATURE:** -40° to +250° F. [-40° to +120° C.]
- **OPERATING MEDIA:** All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.
- **INSTALLATION:** No restrictions.
- **SEAL KIT:** SKN-1228 Buna "N" SKV-1228 Viton
- **WEIGHT:** 0.63 lb [0,25 kg] cartridge only.
- **VALVE CAVITY:** #C1225, See Page 0–023.0.

## References

- info.el@bucherhydraulics.com
- www.bucherhydraulics.com/commoncavity

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