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

NOTE: CAVITY BOTTOM HOLE MUST ALLOW FOR POPPET EXTENSION (.563 DIA.).
FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-012.1

POCX-10

BASIC SIZE
10 = 7/8”-14 UNF

SEALS
N = BUNA “N”
V = VITON

PORTS
O = CARTRIDGE ONLY
02BX = G 1/4” BSPP
03BX = G 3/8” BSPP
06TX = SAE = #6
08TX = SAE = #8

“A” = ALUM. HOUSING
“S” = STEEL HOUSING

POCX-10-X-X-XX-XXX

CRACK PRESSURE
030 = 30 PSI
060 = 60 PSI
120 = 120 PSI

"P" PILOT PORT
2B = G 1/4” BSPP
4T = SAE = #4

TORQUE:
Steel = 55/60 Ft-Lb. [74/81 Nm]
Aluminum = 35/40 Ft-Lb. [47/54 Nm]

POCX-10...
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PILOT OPERATED CHECK VALVE
POPPET 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 pressure is applied to pilot port “P”. 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 pilot port “P” to open the valve. We recommend to use an orifice to dampen the pilot signal (X) when used with an on/off (hard shifting) valve.

FEATURES AND BENEFITS

Wide selection of bias springs allows flexibility for back-pressure application. A low friction seal on pilot piston is standard. All external carbon steel parts are plated for longer life against the elements. All cartridge valves are 100% functionally tested. Industry common cavity.

SPECIFICATIONS

- OPERATING PRESSURE: 5,000 PSI [350 Bar]
- PROOF PRESSURE: 10,000 PSI [700 Bar]
- FLOW: 18.0 GPM [70 l/m] nominal. See performance chart.
- PILOT RATIO: 3 TO 1
- INTERNAL LEAKAGE: 5 drops per minute maximum @ 5,000 PSI [350 Bar]
  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-1021 Buna ”N”
  SKV-1021 Viton
- WEIGHT: .31 lb [.14 kg] cartridge only.
- VALVE CAVITY: #C1020, See Page 0–012.0.

Reference: 520-P-011120-EN-00/09.2015

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