PTCC-10

PILOT OPERATED CHECK VALVE POPPET TYPE,
PILOT TO CLOSE, PILOT RATIO.

NOTE: FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-022.1.

PRESSURE DROP (P)

G.P.M. (135 cSt)

<table>
<thead>
<tr>
<th>PSI</th>
<th>BAR</th>
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<tbody>
<tr>
<td>25</td>
<td>1.75</td>
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<tr>
<td>50</td>
<td>3.4</td>
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<tr>
<td>75</td>
<td>5.2</td>
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<tr>
<td>100</td>
<td>6.8</td>
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<tr>
<td>125</td>
<td>8.6</td>
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</tbody>
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"M" MANUAL LOAD RELEASE
1/2" [12,7] HEX

"F" FIXED

1.85" [46,9]

2.75" [69,8]

2.50" [63,5]

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

Reference: 520-P-012020-EN-00/09.2015
PILOT OPERATED CHECK VALVE
POPPET TYPE, PILOT TO CLOSE, 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 1 to port 2 and blocks flow from port 2 to port 1 for holding a load. Flow will not be allowed from port 2 to port 1 when pressure is applied to port 3. This pilot operated check valve has a 3 to 1 or 2 to 1 pilot ratio, meaning that port 3 requires at least one-third or half of the load pressure held at port 2 to close 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-open. 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. Industry common cavity.

SPECIFICATIONS
OPERATING PRESSURE: 5,000 PSI [350 Bar]
PROOF PRESSURE: 10,000 PSI [700 Bar]
FLOW: 10.0 GPM [38 l/m] nominal. See performance chart.
PILOT RATIO: 3 TO 1 OR 2 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-1028 Buna "N"
SKV-1028 Viton
WEIGHT: .32 lb [.15 kg] cartridge only.
VALVE CAVITY: #C1025, See Page 0-022.0.

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