FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, RESTRICTIVE TYPE.

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0–050.0

PCFC-10-X-X-X-XX

BASIC
SIZE
10 = 7/8"–14 UNF

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
F = FIXED (FACTORY SET)
S = ADJUSTING SCREW
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

PORTS
0 = CARTRIDGE ONLY
028X = 0 1/4" BSPP
038X = 0 3/8" BSPP
06TX = SAE – #6
08TX = SAE – #8

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

REGULATED FLOW TO BE SPECIFIED
EXAMPLE
1.5=1.5 GPM (5.7l/m)

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

P. S. & C. K. = HANDKNOB
M = METAL HANDKNOB

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0–012.1

Reference: 520-P-020320-EN-00/09.2015
# Flow Control Valve Pressure Compensated, Fixed Orifice, Restrictive Type

## Description — Fixed
This unit is a Screw In, cartridge type, pressure compensated, fixed orifice, restrictive hydraulic flow control valve.

FLOW RANGE: 0.2 TO 8.0 GPM [0.8 TO 30.0 L]

## Description — Adjustable
This unit is a Screw In, cartridge type, pressure compensated, fixed orifice, 30% flow adjustment, restrictive hydraulic flow control valve.

FLOW RANGE: 0.2 TO 12.0 GPM [0.8 TO 45.0 L]

Flow adjustment under pressure is difficult.

## Operations
Valve maintains constant flow from port 1 to 2 regardless of system pressure or load and non-compensated flow from port 2 to 1 and goes thru the control orifice.

## Features and Benefits
Valve is available with a screw, tamperproof, capped or knob adjustment. All external carbon steel parts are plated for longer life against the elements. All cartridge valves are 100% functionally tested. Industry common cavity.

## Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Pressure</td>
<td>5,000 PSI (350 Bar)</td>
</tr>
<tr>
<td>Proof Pressure</td>
<td>10,000 PSI (700 Bar)</td>
</tr>
<tr>
<td>Flow: 0.2 to 12.0 GPM</td>
<td>[0.8 to 45.0 l/min] nominal. See performance chart.</td>
</tr>
<tr>
<td>Flow Accuracy:</td>
<td></td>
</tr>
<tr>
<td>0.2 to 1.5 GPM</td>
<td>0.9 to 6.0 L?/?= 10.0%</td>
</tr>
<tr>
<td>1.5 to 4.0 GPM</td>
<td>6.0 to 15.0 L?/?= 7.5%</td>
</tr>
<tr>
<td>4.0 to 12.0 GPM</td>
<td>15.0 to 45.0 L?/?= 5.0%</td>
</tr>
<tr>
<td>Valve Housings: 2500 PSI</td>
<td>175 Bar = Aluminum - Anodized</td>
</tr>
<tr>
<td>5000 PSI</td>
<td>350 Bar = Steel - Unplated</td>
</tr>
<tr>
<td>Operating Temperature:</td>
<td>-40° to +250° F. [-40° to +120° C.]</td>
</tr>
<tr>
<td>Operating Media:</td>
<td>All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.</td>
</tr>
<tr>
<td>Installation:</td>
<td>No restrictions.</td>
</tr>
<tr>
<td>Seal Kit:</td>
<td>SKN-1021 Buna &quot;N&quot;.</td>
</tr>
<tr>
<td>SKV-1021 Viton.</td>
<td></td>
</tr>
<tr>
<td>Weight:</td>
<td>.38 lb [.17 kg] cartridge only.</td>
</tr>
<tr>
<td>Valve Cavity:</td>
<td>#C1020, See Page 0-012.0.</td>
</tr>
</tbody>
</table>

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