**PRESSURE COMPENSATOR**

**SPOOL TYPE, PRIORITY–TYPE COMPENSATOR**

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

**SEALS**
- N = BUNA "N"
- V = VITON

**ADJUSTMENT**
- F = FIXED (FACTORY SET)
- S = ADJUSTING SCREW
- C = CAPPED
- T = TAMPERPROOF

**PRESSURE BIAS SPRING**
- 075 = 75 PSI (FIXED)
- 100 = 100 PSI (FIXED)
- 160 = 40–160 PSI (ADJ.)

**PORTS**
- 0 = CARTRIDGE ONLY
- 04BX = G 1/2" BSPP
- 06BX = G 3/4" BSPP
- 10TX = SAE – #10
- 12TX = SAE – #12

**FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0–050.0**

**PCEB-12-X-X-X-XXX**

**OUTPUT FLOW VS. ORIFICE DIA.**

WITH 100 PSI [6.8 BAR] SPRING.

Output Flow (%):
- 0% = 12 GPM (135 SUS)
- 24% = 28 GPM (28.5 cSt)

**ORIFICE DIAMETER (IN.)**

- 0.100 (2.54 mm)
- 0.200 (5.08 mm)
- 0.300 (7.62 mm)
- 0.400 (10.16 mm)

**PCEB-12 - 2**

**BUCHER hydraulics**

Reference: 520-P-071530-EN-00/09.2015
PRESSURE COMPENSATOR SPOOL TYPE,
PRIORITY-TYPE, PRESSURE COMPENSATING ELEMENT.

DESCRIPTION
This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE,
SPOOL TYPE, PRESSURE—COMPENSATING PRIORITY TYPE FLOW ELEMENT,
intended for use with a remote fixed or variable orifice to yield
a three-port (bypass-type), pressure—compensated, flow regulating
hydraulic valve.

OPERATIONS
This valve maintains a constant flow rate at port 3 regardless of load
pressure changes in a circuit downstream of port 3.
This cartridge compensator flow element maintains a constant differ-
ential pressure circuit point "P" to port 3 thereby regulating the
hydraulic flow rate between the two points in the circuit. This is a
priority type regulator, delivering pump flow first to port 3 , then
by—passing excess flow to port 2. All ports can be fully pressurized.

FEATURES AND BENEFITS
Leakproof screw adjustment.
This valve has a fixed or an adjustable bias spring.
Adjustment screw can not be backed out of the valve.
Overset protection – spring can not go solid.
Hardened precision fitted spool & cage provides reliable, long life.
A unibody cage construction provides very low hysteresis
and reliable operation.
All external carbon steel parts are plated for longer life against the elements.
Valve is available with fixed, screw, tamperproof and capped
adjustments.
All cartridge valves are 100% functionally tested.
<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
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<tbody>
<tr>
<td>OPERATING PRESSURE: 5,000 PSI [350 Bar]</td>
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<tr>
<td>PROOF PRESSURE: 10,000 PSI [700 Bar]</td>
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<td>INLET FLOW: 32.0 GPM [120 L/M]. Regulated see performance chart.</td>
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<td>INTERNAL LEAKAGE: 5 cu.in./min. [85 cc/m].</td>
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<td>DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]</td>
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<td>5000 PSI [350 Bar] = Steel – Unplated.</td>
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<td>OPERATING TEMPERATURE: −40° to +250° F. [−40° to +120° C.]</td>
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<td>OPERATING MEDIA: All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.</td>
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<td>INSTALLATION: Use undercut in cavity (port 4 only) to obtain max rated flow.</td>
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<td>FILTRATION: 25 microns or better.</td>
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<td>SEAL KIT NUMBER: SKN−1242 for buna “N”. SKV−1242 for viton.</td>
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<td>WEIGHT: 0.92 lb [.42 kg] cartridge only.</td>
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<td>VALVE CAVITY: #C1240, See Page 0−043.0.</td>
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DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM]