PBFC-16

**PRESSURE COMPENSATED, NORMALLY CLOSED OR NORMALLY OPEN PROPORTIONAL, PRIORITY FLOW CONTROL VALVE.**

UL approved coil, IP68 and IP69K rated when used with waterproof connector.

**NOTES:**
1. SOLENOIDS AVAILABLE WITH DIODES – CONSULT FACTORY.

**PBFC-16-X-X-XX-X-X-X-XXX-XXX X**

<table>
<thead>
<tr>
<th>BASIC</th>
<th>SIZE</th>
<th>SEALS</th>
<th>STYLE</th>
<th>REGULATED FLOW</th>
<th>ADJUSTMENT OPTIONS</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16= 1.312&quot;-12UNF</td>
<td>N = BUNA &quot;N&quot;</td>
<td>C = NORMALLY CLOSED</td>
<td>06 = 0 TO 6.0 GPM</td>
<td>0-F-100 = NONE</td>
<td>16T = &quot;A&quot; = ALUM. HOUSING</td>
</tr>
<tr>
<td></td>
<td></td>
<td>V = VITON</td>
<td>O = NORMALLY OPEN</td>
<td>12 = 0 TO 12.0 GPM</td>
<td>M-F-100 = MANUAL OVERRIDE</td>
<td>&quot;S&quot; = STEEL HOUSING</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>18 = 0 TO 18.0 GPM</td>
<td>0-S-180 = LIMITED RANGE ADJ.</td>
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<tr>
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<td>24 = 0 TO 24.0 GPM</td>
<td>M-S-180 = BOTH MO/LTD ADJ.</td>
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<td>30 = 0 TO 30.0 GPM</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>36 = 0 TO 36.0 GPM</td>
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**TERMINALS:**
L = 18GA, 24" LEADS
T = SPADE TERM.
B = BOLT TERM.
G = DIN43650
W = WEATHER-PACK
D = DEUTSCH-DT04-2P
M = METRI-PACK CONN.
VOLTAGE AMPS
12D = 12 VDC 3.00
24D = 24 VDC 1.50

**AMPERAGE (AMPS) @ 24 VDC**

<table>
<thead>
<tr>
<th>0.15</th>
<th>0.30</th>
<th>0.45</th>
<th>0.60</th>
<th>0.75</th>
<th>0.90</th>
<th>1.05</th>
<th>1.20</th>
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<tbody>
<tr>
<td>36</td>
<td>30</td>
<td>18</td>
<td>12</td>
<td>9</td>
<td>6</td>
<td>3</td>
<td>2</td>
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**AMPERAGE (AMPS) @ 12 VDC**

<table>
<thead>
<tr>
<th>0.30</th>
<th>0.60</th>
<th>0.90</th>
<th>1.20</th>
<th>1.50</th>
<th>1.80</th>
<th>2.10</th>
<th>2.40</th>
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<td>36</td>
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<td>23</td>
<td>18</td>
<td>13</td>
<td>9</td>
<td>6</td>
<td>3</td>
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**REGULATED FLOW @ 160 PSI**

<table>
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<tr>
<th>114</th>
<th>91</th>
<th>68</th>
<th>46</th>
<th>23</th>
<th>11.4</th>
<th>9.1</th>
<th>6.8</th>
<th>4.6</th>
<th>2.3</th>
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</thead>
<tbody>
<tr>
<td>36</td>
<td>30</td>
<td>24</td>
<td>18</td>
<td>12</td>
<td>9</td>
<td>6</td>
<td>4</td>
<td>3</td>
<td>2</td>
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</tbody>
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**MANUAL OVERRIDE**

( SCREW TYPE )

TYPE "L" COIL
SEE PAGE 10-001.2

Reference: 520-P-112240-EN-00/09.2015
DESCRIPTION
This valve is an electro–hydraulic, proportional, priority (By–Pass) type, pressure compensated, hydraulic flow control. Regulated flow normally closed 0 to 36.0 GPM [0 to 136.8 L/M] or normally open 36.0 to 0 GPM [136.8 to 0 L/M] @ 160 PSI DELTA P. is proportional to the current input regardless of load or system pressure. After the priority flow is satisfied the excess flow is diverted to a secondary circuit or to tank. Maximum inlet flow is 50.0 GPM [190.0 L/M].

OPERATIONS
This unit is a direct acting (NO PILOT FLOW), electro–hydraulic, proportional, pressure compensated, flow control valve. When the coil is energized the armature moves the metering orifice open or closed against a precision bias spring varying the flow. A pressure compensator spool (HYDROSTAT) modulates the flow at 160 PSI/11.0 Bar delta "P" providing pressure. When current is increased or decreased to the coil; the flow will increase or decrease proportionally.

IN THE EVENT OF POWER FAILURE THE VALVE WILL CLOSE OR OPEN RESPECTIVELY.

FEATURES AND BENEFITS
Continuous–duty, very low heat rise & waterproof solenoid coil.
Interchangeable solenoid coils & terminations options available.
Hardened precision fitted spool & sleeve provides reliable, long life.
Very efficient wet – armature solenoid core tube construction.
All external carbon steel parts are plated for longer life against the elements.
All valves are 100% functionally tested.
SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar]
PROOF PRESSURE: 10,000 PSI [700 Bar]
REGULATED FLOW: 36.0 GPM [136.8 l/m] Max. See performance chart.
INTERNAL LEAKAGE: 40 cu.in/min [660 cc/m] @ 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.
RESPONSE: The most efficient method to control this valve is with current control and a 50 Hz dither.
POWER REQUIREMENTS: 12 VDC, Operating current 0.4 to 2.4 AMPS.
24 VDC, Operating current 0.2 to 1.2 AMPS.
SEAL KIT: Buna "N": SKN-1622, SKN-1642
VITON: SKV-1622, SKV-1642
INSTALLATION: No restrictions.
9.89 lbs [4,50 kg] steel body.

Reference: 520-P-112240-EN-00/09.2015