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14F Filters

Symbols

- Excellent water removal efficiency.
- Unique deflector plate that creates swirling of the air stream ensuring maximum water and dirt separation.
- 5 micron element standard.
- High Flow: 1/8" – 10 l/s
  1/4" – 11 l/s

Options:

<table>
<thead>
<tr>
<th>Port size</th>
<th>Description</th>
<th>Order code</th>
<th>Max bar</th>
<th>Height mm</th>
<th>Width mm</th>
<th>Depth mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
<td>Twist drain with 5μ element - Poly bowl</td>
<td>14F01BB1</td>
<td>10.3</td>
<td>107</td>
<td>43</td>
<td>39</td>
</tr>
<tr>
<td>G1/8</td>
<td>Auto pulse drain - 5μ element - Poly bowl</td>
<td>14F05BB1</td>
<td>17.2</td>
<td>107</td>
<td>43</td>
<td>39</td>
</tr>
<tr>
<td>G1/4</td>
<td>Twist drain with 5μ element - Poly bowl</td>
<td>14F11BB1</td>
<td>10.3</td>
<td>107</td>
<td>43</td>
<td>39</td>
</tr>
<tr>
<td>G1/4</td>
<td>Auto pulse drain - 5μ element - Poly bowl</td>
<td>14F15BB1</td>
<td>17.2</td>
<td>107</td>
<td>43</td>
<td>39</td>
</tr>
</tbody>
</table>

Note: Bold options are standard

1 L/s = 6.2 bar inlet and 0.3 bar pressure drop.
2 For polycarbonate bowl see Caution on page 2.
Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic pulse drain tube barb</td>
<td>4mm 10/8 x 0.75 1/8</td>
</tr>
<tr>
<td>Bowl capacity</td>
<td>30 cm³</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0°C to 52°C</td>
</tr>
<tr>
<td>Max supply pressure</td>
<td>Polycarbonate, Automatic pulse drain 0.7 to 17.2 bar</td>
</tr>
<tr>
<td>Standard filtration</td>
<td>5 micron</td>
</tr>
<tr>
<td>Port size</td>
<td>G1/8 / G1/4</td>
</tr>
<tr>
<td>Weight</td>
<td>0.180 gm</td>
</tr>
</tbody>
</table>

Materials of Construction

- **Body**: Zinc
- **Bowl - Transparent**: Polycarbonate
- **Deflector, Element holder & Baffle**: Plastic
- **Drains**
  - Twist drain: Body & Stem - Plastic
  - Automatic pulse drain: Piston & Seals - Nitrile
  - Stem, Seat, Adaptor & Washers - Aluminium
- **Filter elements 5 micron (standard)**: Plastic
- **Seals**: Nitrile

Flow Charts

**5µ Filter**

Flow Characteristics - 1/8 Inch Ports

<table>
<thead>
<tr>
<th>Pressure drop - bar</th>
<th>Flow - dm³/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>0.1</td>
<td>10</td>
</tr>
<tr>
<td>0.2</td>
<td>15</td>
</tr>
</tbody>
</table>

Flow Characteristics - 1/4 Inch Ports

<table>
<thead>
<tr>
<th>Pressure drop - bar</th>
<th>Flow - dm³/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>0.1</td>
<td>10</td>
</tr>
<tr>
<td>0.2</td>
<td>15</td>
</tr>
</tbody>
</table>

Accessories

- **Bowl kits, Poly bowl**
- **Automatic pulse drain** PS408P
- **Twist drain** PS404P
- **Filter element kits 5 micron** PS403P
- **Mounting bracket kit** PS417BP
10F Coalescing Filters

---

**Symbol**

- Removes liquid aerosols and sub-micron particles.
- Liquids gravitate to the bottom of the element and will not re-enter the airstream.
- Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.
- 99.97% DOP efficiency.
- **High Flow:** Grade 6 Element
  - 1/8" – 8 l/s
  - 1/4" – 9 l/s

**Options:**

<table>
<thead>
<tr>
<th>Port size</th>
<th>Description</th>
<th>Order code</th>
<th>Max bar</th>
<th>Height mm</th>
<th>Width mm</th>
<th>Depth mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
<td>Twist drain with 5µ element - Poly bowl</td>
<td>10F01ED1</td>
<td>0.7</td>
<td>107</td>
<td>43</td>
<td>39.6</td>
</tr>
<tr>
<td>G1/8</td>
<td>Auto pulse drain - 5µ element - Poly bowl</td>
<td>10F05ED1</td>
<td>0.7</td>
<td>107</td>
<td>43</td>
<td>39.6</td>
</tr>
<tr>
<td>G1/4</td>
<td>Twist drain with 5µ element - Poly bowl</td>
<td>10F11ED1</td>
<td>0.7</td>
<td>107</td>
<td>43</td>
<td>39.6</td>
</tr>
<tr>
<td>G1/4</td>
<td>Auto pulse drain - 5µ element - Poly bowl</td>
<td>10F15ED1</td>
<td>0.7</td>
<td>107</td>
<td>43</td>
<td>39.6</td>
</tr>
<tr>
<td>G1/8</td>
<td>Twist drain with 5µ element - Metal bowl</td>
<td>10F03E*</td>
<td>0.7</td>
<td>107</td>
<td>43</td>
<td>39.6</td>
</tr>
<tr>
<td>G1/8</td>
<td>Auto pulse drain - 5µ element - Metal bowl</td>
<td>10F07E*</td>
<td>0.7</td>
<td>107</td>
<td>43</td>
<td>39.6</td>
</tr>
<tr>
<td>G1/4</td>
<td>Twist drain with 5µ element - Metal bowl</td>
<td>10F13E*</td>
<td>0.7</td>
<td>107</td>
<td>43</td>
<td>39.6</td>
</tr>
<tr>
<td>G1/4</td>
<td>Auto pulse drain - 5µ element - Metal bowl</td>
<td>10F17E*</td>
<td>0.7</td>
<td>107</td>
<td>43</td>
<td>39.6</td>
</tr>
</tbody>
</table>

Note: Bold options are standard

---

1. L/s = 6.2 bar inlet and 0.3 bar pressure drop.
2. For polycarbonate bowl see Caution on page 2.
Specifications

- Automatic pulse drain tube barb: 4mm ⅞ x 0.75 ⅛ tubing
- Bowl capacity: 30 cm³
- Operation:
  - Normal pressure drop: 0.1 bar
  - Maximum recommended pressure drop: 0.7 bar
- Operating temperature: 0°C to 52°C
- Max supply pressure: Polycarbonate bowl 0 to 10.3 bar
- Standard filtration: 0.01 micron
- Port size: G1/8 / G1/4
- Weight: 0.180 gm

Materials of Construction

- Body: Zinc
- Bowl - Transparent: Polycarbonate
- Drains:
  - Twist drain: Body & Stem - Plastic, Seals - Nitrile
  - Automatic pulse drain: Piston & Seals - Nitrile, Stem, Seat, Adaptor & Washers - Aluminium
- Element holder: Plastic
- Filter element: Borosilicate & felt glass fibers 99.97% DOP efficiency
- Seals: Nitrile

Dimensions

- Automatic drain: Accepts 4mm ⅞ x 0.75 ⅛ tubing

Flow Charts

Grade 6

Flow Characteristics - 1/8 Inch Ports
10F01E*

Flow Characteristics - 1/4 Inch Ports
10F11E*

Accessories

- Bowl kits, Poly bowl
- Automatic pulse drain: PS408P
- Twist drain: PS404P
- Filter element kits 0.01 micron: PS446P
- Mounting bracket kit: PS417BP

Parker Hannifin Corporation
Pneumatic Division - Europe
14R Regulators

Options:

- Unbalanced poppet standard.
- Solid control piston with lip seal for extended life.
- Non-rising adjusting knob.
- Compact, 73.2mm high by 42mm wide.
- High Flow: 
  1/8" = 6 l/s
  1/4" = 7 l/s

### Options:

<table>
<thead>
<tr>
<th>Port size</th>
<th>Pressure range</th>
<th>Relief</th>
<th>Port type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot; pipe</td>
<td>0</td>
<td>Non-relieving</td>
<td>NPT</td>
</tr>
<tr>
<td>1/8&quot; gauge port</td>
<td></td>
<td></td>
<td>Blank</td>
</tr>
<tr>
<td>1/4&quot; pipe</td>
<td>2 bar</td>
<td>Relieving</td>
<td>BSPP</td>
</tr>
<tr>
<td>1/8&quot; gauge port</td>
<td>10</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>1/4&quot; pipe</td>
<td>4 bar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/8&quot; gauge port</td>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4&quot; pipe</td>
<td>8 bar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/8&quot; gauge port</td>
<td>13</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Bold options are standard

### Configuration:

<table>
<thead>
<tr>
<th>Port size</th>
<th>Description</th>
<th>Order code</th>
<th>Max bar</th>
<th>Height mm</th>
<th>Width mm</th>
<th>Depth mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
<td>8 bar - BSPP - without gauge</td>
<td>14R013FC1</td>
<td>20.7</td>
<td>73</td>
<td>42</td>
<td>40</td>
</tr>
<tr>
<td>G1/8</td>
<td>8 bar - BSPP - with gauge</td>
<td>14R018F*</td>
<td>20.7</td>
<td>73</td>
<td>42</td>
<td>40</td>
</tr>
<tr>
<td>G1/4</td>
<td>8 bar - BSPP - without gauge</td>
<td>14R113FC1</td>
<td>20.7</td>
<td>73</td>
<td>42</td>
<td>40</td>
</tr>
<tr>
<td>G1/4</td>
<td>8 bar - BSPP - with gauge</td>
<td>14R118F*</td>
<td>20.7</td>
<td>73</td>
<td>42</td>
<td>40</td>
</tr>
</tbody>
</table>

Note: 31mm dia. hole required for panel mounting.

§ L/s = 6.9 bar inlet, 6.2 bar no flow secondary setting and 0.7 bar pressure drop.
Specifications

Gauge ports: G1/8
Port size: G1/8 / G1/4
Operating temperature: 0°C to 52°C
Max supply pressure: 0 to 20.7 bar
Secondary pressure range:
- Standard pressure: 0 to 8 bar
- Medium pressure: 0 to 4 bar
- Medium pressure: 0 to 2 bar
Weight: 140 gm

Materials of Construction

- Adjusting nut: Brass
- Adjusting stem & spring: Steel
- Body: Zinc
- Bonnet, Seat, Piston & Valve poppet: Plastic
- Seals: Nitrile

Caution:
Regulator pressure adjustment – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

Dimensions

14R Regulator Dimensions

<table>
<thead>
<tr>
<th></th>
<th>14R</th>
<th>14R**L*</th>
<th>14RM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td>42</td>
<td>1.65</td>
<td>1.50</td>
</tr>
<tr>
<td><strong>B</strong></td>
<td>40</td>
<td>1.56</td>
<td>1.50</td>
</tr>
<tr>
<td><strong>C</strong></td>
<td>63.5</td>
<td>2.28</td>
<td>2.36</td>
</tr>
<tr>
<td><strong>D</strong></td>
<td>10</td>
<td>0.38</td>
<td>0.50</td>
</tr>
<tr>
<td><strong>E</strong></td>
<td>73</td>
<td>2.68</td>
<td>2.98</td>
</tr>
</tbody>
</table>

Flow Charts

Relief and Flow Characteristics

<table>
<thead>
<tr>
<th>14R013F*</th>
<th>1/8 Inch Ports</th>
<th>6.9 bar Primary Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow - dm³/s</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Secondary pressure - bar</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14R113F*</th>
<th>1/4 Inch Ports</th>
<th>6.9 bar Primary Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow - dm³/s</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Secondary pressure - bar</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Accessories

- Bonnet assembly kit: L01369
- Gauges: 0 to 2 bar P3D-KAB1AYN
  - 0 to 4 bar P3D-KAB1ALN
  - 0 to 10 bar P3D-KAB1ANN
- Mounting bracket kit (includes panel mount nut): PS417BP
- Panel mounts nuts: Plastic P78652
  - Metal P01531
- Service kits: Non-relieving PS422P
  - Relieving PS423P

![Warning]

Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed maximum primary pressure rating.
PDE2591TCUK
Prep-Air® II Miniature FRLs

14E Series

14E Filter / Regulators

Options:

Symbols

- Excellent water removal efficiency.
- Unbalanced poppet standard.
- Solid control piston for extended life.
- Space saving package offers both filter and regulator features in one integral unit.
- Non-rising adjustment knob.
- Two full flow 1/8" gauge ports.
- High Flow: 1/8" – 7 l/s\(^1\), 1/4" – 8 l/s\(^1\)

Port size
- 1/8
- 1/4

Element
- 5µ element

Bowl type
- Twist drain
- Automatic pulse drain

Relief
- Relieving
- Non-relieving

Port type
- NPT
- Blank

Pressur range
- Without gauge - Yellow knob
  - 2 bar: 10
  - 4 bar: 11
  - 8 bar: 13

Note: Bold options are standard

<table>
<thead>
<tr>
<th>Port size</th>
<th>Description</th>
<th>Order code</th>
<th>Max bar</th>
<th>Height mm</th>
<th>Width mm</th>
<th>Depth mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8</td>
<td>Twist drain with 5µ element - 8 bar BSPP - Poly bowl without gauge</td>
<td>14E01B13FC1</td>
<td>10.3</td>
<td>158</td>
<td>41</td>
<td>40</td>
</tr>
<tr>
<td>1/8</td>
<td>Auto pulse drain - 5µ element - 8 Bar BSPP - Poly bowl without gauge</td>
<td>14E05B13FC1</td>
<td>10.3</td>
<td>158</td>
<td>41</td>
<td>40</td>
</tr>
<tr>
<td>1/4</td>
<td>Twist drain with 5µ element - 8 Bar BSPP - Poly bowl without gauge</td>
<td>14E11B13FC1</td>
<td>10.3</td>
<td>158</td>
<td>41</td>
<td>40</td>
</tr>
<tr>
<td>1/4</td>
<td>Auto pulse drain - 5µ element - 8 Bar BSPP - Poly bowl without gauge</td>
<td>14E15B13FC1</td>
<td>10.3</td>
<td>158</td>
<td>41</td>
<td>40</td>
</tr>
<tr>
<td>1/8</td>
<td>Twist drain with 5µ element - 8 Bar BSPP - Metal bowl without gauge</td>
<td>14E03B13F*</td>
<td>10.3</td>
<td>158</td>
<td>41</td>
<td>40</td>
</tr>
<tr>
<td>1/8</td>
<td>Auto pulse drain - 5µ element - 8 Bar BSPP - Metal bowl without gauge</td>
<td>14E07B13F*</td>
<td>10.3</td>
<td>158</td>
<td>41</td>
<td>40</td>
</tr>
<tr>
<td>1/4</td>
<td>Twist drain with 5µ element - 8 Bar BSPP - Metal bowl without gauge</td>
<td>14E13B13F*</td>
<td>10.3</td>
<td>158</td>
<td>41</td>
<td>40</td>
</tr>
<tr>
<td>1/4</td>
<td>Auto pulse drain - 5µ element - 8 Bar BSPP - Metal bowl without gauge</td>
<td>14E17B13F*</td>
<td>10.3</td>
<td>158</td>
<td>41</td>
<td>40</td>
</tr>
</tbody>
</table>

1 \(\text{L/s} = 6.9 \text{ bar inlet}, 6.2 \text{ bar no flow secondary setting and 0.7 \text{ bar pressure drop.}}\)

‡ For polycarbonate bowl see Caution on page 2.

Note: 31mm hole required for panel mounting.
Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic pulse drain tube barb</td>
<td>4mm²/Ø x 0.75 %</td>
</tr>
<tr>
<td>Bowl capacity</td>
<td>30 cm³</td>
</tr>
<tr>
<td>Gauge ports (2) (can be used for full flow)</td>
<td>G1/8</td>
</tr>
<tr>
<td>Port size</td>
<td>G1/8 / G1/4</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0°C to 52°C</td>
</tr>
<tr>
<td>Secondary pressure range</td>
<td></td>
</tr>
<tr>
<td>Standard pressure</td>
<td>0 to 8 bar</td>
</tr>
<tr>
<td>Medium pressure</td>
<td>0 to 4 bar</td>
</tr>
<tr>
<td>Medium pressure</td>
<td>0 to 2 bar</td>
</tr>
<tr>
<td>Weight</td>
<td>0.180 gm</td>
</tr>
</tbody>
</table>

Materials of Construction

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjusting nut</td>
<td>Brass</td>
</tr>
<tr>
<td>Adjusting stem &amp; spring</td>
<td>Steel</td>
</tr>
<tr>
<td>Body</td>
<td>Zinc</td>
</tr>
<tr>
<td>Bonnet, Knob, Seat, Piston, Holder &amp; Deflector</td>
<td>Plastic</td>
</tr>
<tr>
<td>Bowl - Transparent</td>
<td>Polycarbonate</td>
</tr>
<tr>
<td>Drains</td>
<td></td>
</tr>
<tr>
<td>Twist drain</td>
<td>Plastic</td>
</tr>
<tr>
<td>Seal</td>
<td>Nitrile</td>
</tr>
<tr>
<td>Automatic pulse drain</td>
<td></td>
</tr>
<tr>
<td>Piston &amp; Seals</td>
<td>Nitrile</td>
</tr>
<tr>
<td>Stem, Seat, Adaptor &amp; Washers</td>
<td>Aluminium</td>
</tr>
<tr>
<td>Filter elements - 5 micron (Standard)</td>
<td>Plastic</td>
</tr>
<tr>
<td>Seals</td>
<td>Nitrile</td>
</tr>
</tbody>
</table>

Caution:

Regulator pressure adjustment – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

Dimensions

Automatically

![Diagram of Prep-Air® II Miniature FRLs](image)

Warning:

Product rupture can cause serious injury. Do not exceed maximum primary pressure rating.
Parker Hannifin Corporation
Pneumatic Division - Europe
PDE2591TCUK
Prep-Air® II Miniature FRLs

10L Mist Lubricators

Symbol

- Proportional oil delivery over a wide range of air flows.
- Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rate.
- Ideal for low and high flow applications with changing air flow.
- Transparent sight dome for 360° visibility.
- High Flow: $1/8" = 9 \text{ l/s}^1$
  $1/4" = 10 \text{ l/s}^1$

Options:

<table>
<thead>
<tr>
<th>Port size</th>
<th>Description</th>
<th>Order code</th>
<th>Max bar</th>
<th>Height mm</th>
<th>Width mm</th>
<th>Depth mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
<td>BSPP no drain - Poly bowl</td>
<td>14L00GB1</td>
<td>10.3</td>
<td>147</td>
<td>44</td>
<td>40</td>
</tr>
<tr>
<td>G1/4</td>
<td>BSPP no drain - Poly bowl</td>
<td>14L10GB1</td>
<td>10.3</td>
<td>147</td>
<td>44</td>
<td>40</td>
</tr>
</tbody>
</table>

Note: Bold options are standard

Note: Bold options are standard

L/s = 6.2 bar inlet and 0.3 bar pressure drop.
‡ For polycarbonate bowl see Caution on page 2.
Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bowl capacity</td>
<td>30 cm³</td>
</tr>
<tr>
<td>Minimum flow for lubrication</td>
<td>0.2 l/s at 6.9 bar</td>
</tr>
<tr>
<td>Port size</td>
<td>G1/8 / G1/4</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0°C to 52°C</td>
</tr>
<tr>
<td>Max supply pressure</td>
<td>Polycarbonate bowl 0 to 10.3 bar</td>
</tr>
<tr>
<td>Weight</td>
<td>0.180 gm</td>
</tr>
</tbody>
</table>

Materials of Construction

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>Zinc</td>
</tr>
<tr>
<td>Bowl - Transparent</td>
<td>Polycarbonate</td>
</tr>
<tr>
<td>Seals</td>
<td>Nitrile</td>
</tr>
<tr>
<td>Sight dome</td>
<td>Polycarbonate</td>
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</tbody>
</table>

Dimensions

Flow Charts

Flow Characteristics - 1/8 Inch Ports

Flow Characteristics - 1/4 Inch Ports

Accessories

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bowl kits, Poly bowl No drain</td>
<td>PS421P</td>
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</table>
Mounting Bracket Kits

<table>
<thead>
<tr>
<th>Dimensions (mm)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>Kit</th>
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<tr>
<td></td>
<td>46</td>
<td>60</td>
<td>23</td>
<td>34</td>
<td>25</td>
<td>13</td>
<td>5</td>
<td>31</td>
<td>14</td>
<td>6</td>
<td>11</td>
<td>16</td>
<td>PS417BP (10F, 14F, 14R, 14E)</td>
</tr>
<tr>
<td></td>
<td>46</td>
<td>55</td>
<td>23</td>
<td>34</td>
<td>25</td>
<td>13</td>
<td>5</td>
<td>31</td>
<td>14</td>
<td>6</td>
<td>11</td>
<td>16</td>
<td>PS419 (04L)</td>
</tr>
</tbody>
</table>

PS417BP
(Includes Panel Mount Nut)

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