Prep-Air® II
Miniature FRL Series

Catalogue PDE2591TCUK May 2020
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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:

1 4 F 1 1 B B 1

Port size | Description | Order code | Max bar | Height mm | Width mm | Depth mm
--- | --- | --- | --- | --- | --- | ---
1/8 | Twist drain with 5µ element - Poly bowl | 14F01BB1 | 10.3 | 107 | 43 | 39
1/8 | Auto pulse drain - 5µ element - Poly bowl | 14F05BB1 | 17.2 | 107 | 43 | 39
1/4 | Twist drain with 5µ element - Poly bowl | 14F11BB1 | 10.3 | 107 | 43 | 39
1/4 | Auto pulse drain - 5µ element - Poly bowl | 14F15BB1 | 17.2 | 107 | 43 | 39

Note: Bold options are standard

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

Automatic pulse drain tube barb 4mm O/D x 0.75 I/D
Bowl capacity 30 cm³
Operating temperature 0°C to 52°C
Max supply pressure Polycarbonate bowl
Automatic pulse drain 0.7 to 17.2 bar
Standard filtration 5 micron
Port size G1/8 / G1/4
Weight 0.180 gm

Materials of Construction

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

Flow Charts

Flow Characteristics - 1/8 Inch Ports

Flow Characteristics - 1/4 Inch Ports

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

- 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>1/8</td>
<td>Twist drain with 0.01µ element - Poly bowl</td>
<td>10F01ED1</td>
<td>0.7</td>
<td>107</td>
<td>43</td>
<td>39.6</td>
</tr>
<tr>
<td>1/8</td>
<td>Auto pulse drain - 0.01µ element - Poly bowl</td>
<td>10F05ED1</td>
<td>0.7</td>
<td>107</td>
<td>43</td>
<td>39.6</td>
</tr>
<tr>
<td>1/4</td>
<td>Twist drain with 0.01µ element - Poly bowl</td>
<td>10F11ED1</td>
<td>0.7</td>
<td>107</td>
<td>43</td>
<td>39.6</td>
</tr>
<tr>
<td>1/4</td>
<td>Auto pulse drain - 0.01µ element - Poly bowl</td>
<td>10F15ED1</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.
Parker Hannifin Corporation
Pneumatic Division - Europe

PDE2591TCUK
Prep-Air® II Miniature FRLs

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic pulse drain tube barb</td>
<td>4mm 1/8 x 0.75 1/16</td>
</tr>
<tr>
<td>Bowl capacity</td>
<td>30 cm³</td>
</tr>
<tr>
<td>Operation</td>
<td>Normal pressure drop 0.1 bar</td>
</tr>
<tr>
<td></td>
<td>Maximum recommended pressure drop 0.7 bar</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>Standard filtration</td>
<td>0.01 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
- **Drains**:
  - Twist drain: Body & Stem Plastic, Seals Nitrile
  - Automatic pulse drain: Piston & Seals Nitrile, Stem, Seat, Adaptor & Washers Plastic
- **Element holder**: Plastic
- **Filter element**: Borosilicate & felt glass fibers 99.97% DOP efficiency
- **Seals**: Nitrile

Dimensions

Flow Charts

<table>
<thead>
<tr>
<th>Grade 6 Flow Characteristics - 1/8 Inch Ports 10F01E*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.4 bar</td>
</tr>
<tr>
<td>0.1 bar</td>
</tr>
<tr>
<td>0.4 bar</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flow Characteristics - 1/4 Inch Ports 10F11E*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.4 bar</td>
</tr>
<tr>
<td>0.1 bar</td>
</tr>
<tr>
<td>0.4 bar</td>
</tr>
</tbody>
</table>

Accessories

- Bowl kits, Poly bowl 10F01EP
- Automatic pulse drain PS408P
- Twist drain PS404P
- Filter element kits 0.01 micron PS446P
- Mounting bracket kit PS417BP

Accepts 4mm 1/8 x 0.75 1/16 tubing

Distance required to remove all bowls regardless of drain option
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\(^6\)
  1/4" = 7 l/s\(^6\)

### 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>Without gauge - Yellow knob</td>
<td>Relieving</td>
<td>NPT</td>
</tr>
<tr>
<td>1/8&quot; gauge port</td>
<td>0</td>
<td>F</td>
<td>Blank</td>
</tr>
<tr>
<td>1/4&quot; pipe</td>
<td>2 bar</td>
<td>Non-relieving</td>
<td>BSPP</td>
</tr>
<tr>
<td>1/8&quot; gauge port</td>
<td>10</td>
<td>G</td>
<td>1</td>
</tr>
<tr>
<td>4 bar</td>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 bar</td>
<td>13</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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>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>G1/4</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>
</tbody>
</table>

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

\(^6\) L/s = 6.9 bar inlet, 6.2 bar no flow secondary setting and 0.7 bar pressure drop.
Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gauge ports</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>Max supply pressure</td>
<td>0 to 20.7 bar</td>
</tr>
<tr>
<td>Secondary pressure range</td>
<td>Standard pressure: 0 to 8 bar</td>
</tr>
<tr>
<td></td>
<td>Medium pressure: 0 to 4 bar</td>
</tr>
<tr>
<td></td>
<td>Medium pressure: 0 to 2 bar</td>
</tr>
<tr>
<td>Weight</td>
<td>140 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, Seat, Piston &amp; Valve poppet</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

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

Warning

Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed maximum primary pressure rating.

Accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonnet assembly kit</td>
<td>L01369</td>
</tr>
<tr>
<td>Gauges 0 to 2 bar</td>
<td>P3D-KAB1AYN</td>
</tr>
<tr>
<td>Gauges 0 to 4 bar</td>
<td>P3D-KAB1ALN</td>
</tr>
<tr>
<td>Gauges 0 to 10 bar</td>
<td>P3D-KAB1ANN</td>
</tr>
<tr>
<td>Mounting bracket kit</td>
<td>PS417BP</td>
</tr>
<tr>
<td>(Includes panel mount nut)</td>
<td></td>
</tr>
<tr>
<td>Panel mounts nuts</td>
<td>Plastic</td>
</tr>
<tr>
<td></td>
<td>P78652</td>
</tr>
<tr>
<td></td>
<td>Metal</td>
</tr>
<tr>
<td></td>
<td>P01531</td>
</tr>
<tr>
<td>Service kits</td>
<td></td>
</tr>
<tr>
<td>Non-relieving</td>
<td>PS422P</td>
</tr>
<tr>
<td>Relieving</td>
<td>PS423P</td>
</tr>
</tbody>
</table>
14E Filter / Regulators

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\(^1\)

Options:

<table>
<thead>
<tr>
<th>Port size</th>
<th>Bowl type</th>
<th>Element</th>
<th>Relief</th>
<th>Port type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8</td>
<td>Twist drain</td>
<td>5µ element E</td>
<td>Relieving F</td>
<td>NPT Blank BSPP</td>
</tr>
<tr>
<td>1/4</td>
<td>Automatic pulse drain</td>
<td></td>
<td>Non-relieving G</td>
<td></td>
</tr>
</tbody>
</table>

Pressure 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>G1/8</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>G1/8</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>G1/4</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>G1/4</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>
</tbody>
</table>

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

† For polycarbonate bowl see Caution on page 2.

Note: 31mm hole required for panel mounting.
Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic pulse drain tube barb</td>
<td>4mm O/D x 0.75 I/D</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>Standard pressure: 0 to 8 bar</td>
</tr>
<tr>
<td></td>
<td>Medium pressure: 0 to 4 bar</td>
</tr>
<tr>
<td></td>
<td>Medium pressure: 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 Body &amp; Stem</td>
<td>Plastic</td>
</tr>
<tr>
<td>Automatic pulse drain 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:

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Dimensions

Flow Charts

<table>
<thead>
<tr>
<th>Relief and Flow Characteristics 14E01B13F*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary pressure (bar)</td>
</tr>
<tr>
<td>Flow (dm³/s)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relief and Flow Characteristics 14E11B13F*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary pressure (bar)</td>
</tr>
<tr>
<td>Flow (dm³/s)</td>
</tr>
</tbody>
</table>

Accessories

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bowl kits, Poly bowl</td>
<td>PS408P</td>
</tr>
<tr>
<td>Automatic pulse drain</td>
<td>PS404P</td>
</tr>
<tr>
<td>Twist drain</td>
<td>PS404P</td>
</tr>
<tr>
<td>Gauges - 1/8</td>
<td>0 to 2 bar</td>
</tr>
<tr>
<td></td>
<td>0 to 4 bar</td>
</tr>
<tr>
<td></td>
<td>0 to 10 bar</td>
</tr>
<tr>
<td>Service kits Non-relieving</td>
<td>PS422P</td>
</tr>
<tr>
<td></td>
<td>Relieving</td>
</tr>
<tr>
<td></td>
<td>PS423P</td>
</tr>
<tr>
<td>Mounting bracket kit</td>
<td>PS417BP</td>
</tr>
<tr>
<td>(Includes panel mount nut)</td>
<td></td>
</tr>
<tr>
<td>Panel mounts nuts Plastic</td>
<td>PS76652</td>
</tr>
</tbody>
</table>

Warning

Product rupture can cause serious injury. Do not exceed maximum primary pressure rating.
04L 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>04L00GB1</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>04L10GB1</td>
<td>10.3</td>
<td>147</td>
<td>44</td>
<td>40</td>
</tr>
</tbody>
</table>

Note: Bold options are standard

1 $L/s = 6.2 \text{ bar inlet and 0.3 bar pressure drop.}$

‡ For polycarbonate bowl see Caution on page 2.
Specifications

- Bowl capacity: 30 cm³
- Minimum flow for lubrication: 0.2 l/s at 6.9 bar
- Port size: G1/8 / G1/4
- Operating temperature: 0°C to 52°C
- Max supply pressure: Polycarbonate bowl 0 to 10.3 bar
- Weight: 0.180 gm

Materials of Construction

- Body: Zinc
- Bowl - Transparent: Polycarbonate
- Seals: Nitrile
- Sight dome: Polycarbonate

Dimensions

Accessories

- Bowl kits, Poly bowl: No drain - PS421P
- Mounting bracket kit: PS419

Flow Charts

- Flow Characteristics - 1/8 Inch Ports
- Flow Characteristics - 1/4 Inch Ports
Mounting Bracket Kits

**PS417BP**
(Includes Panel Mount Nut)

**PS419**

<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>
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</tbody>
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Parker Worldwide

### Europe, Middle East, Africa

**AE – United Arab Emirates, Dubai**  
Tel: +971 4 8127100  
parker.me@parker.com

**AT – Austria, St. Florian**  
Tel: +43 (0)7224 66201  
parker.austria@parker.com

**AZ – Azerbaijan, Baku**  
Tel: +994 50 2233 458  
parker.azerbaijan@parker.com

**BE/NL/LU – Benelux, Hendrik Ido Ambacht**  
Tel: +31 (0)541 585 000  
parker.nl@parker.com

**BG – Bulgaria, Sofia**  
Tel: +359 2 980 1344  
parker.bulgaria@parker.com

**BY – Belarus, Minsk**  
Tel: +375 17 534 5000  
parker.by@parker.com

**CH – Switzerland, Etoy**  
Tel: +41 (0)21 821 87 00  
parker.switzerland@parker.com

**CZ – Czech Republic, Klecany**  
Tel: +420 284 083 111  
parker.czechrepublic@parker.com

**DE – Germany, Kaarst**  
Tel: +49 (0)2131 4016 0  
parker.germany@parker.com

**DK – Denmark, Ballerup**  
Tel: +45 43 56 04 00  
parker.denmark@parker.com

**ES – Spain, Madrid**  
Tel: +34 902 330 001  
parker.spain@parker.com

**FI – Finland, Vantaa**  
Tel: +358 (0)20 753 2500  
parker.finland@parker.com

**FR – France, Contamine s’Arve**  
Tel: +33 (0)4 50 25 80 25  
parker.france@parker.com

**GR – Greece, Piraeus**  
Tel: +30 210 933 6450  
parker.greece@parker.com

**HU – Hungary, Budaörs**  
Tel: +36 23 885 470  
parker.hu@parker.com

**IE – Ireland, Dublin**  
Tel: +353 (0)1 466 6370  
parker.ireland@parker.com

**IL – Israel**  
Tel: +972 2 692 3000  
parker.israel@parker.com

**IT – Italy, Corsico (MI)**  
Tel: +39 02 45 19 21  
parker.italy@parker.com

**KZ – Kazakhstan, Almaty**  
Tel: +7 7273 561 000  
parker.easteurope@parker.com

**NO – Norway, Asker**  
Tel: +47 66 75 34 00  
parker.norway@parker.com

**PL – Poland, Warsaw**  
Tel: +48 (022) 573 24 00  
parker.poland@parker.com

**PT – Portugal**  
Tel: +351 22 999 7360  
parker.portugal@parker.com

**RO – Romania, Bucharest**  
Tel: +40 21 252 1382  
parker.ro@parker.com

**RU – Russia, Moscow**  
Tel: +7 495 645-2156  
parker.russia@parker.com

**SE – Sweden, Borås**  
Tel: +46 (0) 3 79 59 50 00  
parker.sweden@parker.com

**SK – Slovakia, Banská Bystrica**  
Tel: +421 484 162 252  
parker.slovakia@parker.com

**SL – Slovenia, Novo Mesto**  
Tel: +386 7 337 6650  
parker.slovenia@parker.com

**TR – Turkey, Istanbul**  
Tel: +90 216 4997081  
parker.turkey@parker.com

**UA – Ukraine, Kiev**  
Tel: +380 (0) 2 491 24 00  
parker.ukraine@parker.com

**UK – United Kingdom, Warwick**  
Tel: +44 (0)1926 317 878  
parker.uk@parker.com

**ZA – South Africa, Kempton Park**  
Tel: +27 (0)11 961 0700  
parker.southafrica@parker.com

### North America

**CA – Canada, Milton, Ontario**  
Tel: +1 905 693 3000  
parker.canada@parker.com

**US – USA, Cleveland**  
Tel: +1 216 896 3000  
parker.us@parker.com

### Asia Pacific

**AU – Australia, Castle Hill**  
Tel: +61 (02) 9634 7777  
parker.australia@parker.com

**CN – China, Shanghai**  
Tel: +86 21 2899 5000  
parker.cn@parker.com

**HK – Hong Kong**  
Tel: +852 2428 8008  
parker.hk@parker.com

**IN – India, Mumbai**  
Tel: +91 22 6513 7081  
parker.india@parker.com

**JP – Japan, Tokyo**  
Tel: +81 (0) 3 7849 0800  
parker.japan@parker.com

**KR – South Korea, Seoul**  
Tel: +82 2 559 0400  
parker.korea@parker.com

**MY – Malaysia, Shah Alam**  
Tel: +60 3 7849 0800  
parker.my@parker.com

**NZ – New Zealand, Mt Wellington**  
Tel: +64 9 574 1744  
parker.nz@parker.com

**SG – Singapore**  
Tel: +65 6887 6300  
parker.sg@parker.com

**TH – Thailand, Bangkok**  
Tel: +662 186 7000  
parker.thailand@parker.com

**TW – Taiwan, Taipei**  
Tel: +886 2 2298 8987  
parker.taiwan@parker.com

### South America

**AR – Argentina, Buenos Aires**  
Tel: +54 332 743 4800  
parker.argentina@parker.com

**BR – Brazil, Sao Jose dos Campos**  
Tel: +55 800 727 5374  
parker.brazil@parker.com

**CL – Chile, Santiago**  
Tel: +56 2 619 0700  
parker.cl@parker.com

**MX – Mexico, Toluca**  
Tel: +52 72 2275 4200  
parker.mexico@parker.com

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Parker Hannifin Ltd.  
Tachbrook Park Drive  
Tachbrook Park,  
Warwick, CV34 6TU  
United Kingdom  
Tel.: +44 (0) 1926 317 878  
Fax: +44 (0) 1926 317 855  
parker.uk@parker.com  
www.parker.com