Midget & Intermediate Manual and Mechanical Valves

G1/8 - G1/4 body ported

Catalogue PDE2623TCUK. Edition August 09

aerospace
climate control
electromechanical filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

ENGINEERING YOUR SUCCESS.
Important!
Before carrying out any service work, ensure that the valve and manifold have been vented. Remove the primary supply air hose to ensure total disconnection of the air supply before dismantling valves or blank connection blocks.

NB!
All technical data in this catalogue is typical only. The air quality is decisive for the valve life: see ISO 8573.
Marketing Applications

- Manufacturing
- Packaging
- General Automation
Midget / Intermediate
G1/8 & G1/4 Control Valves

The compact design of these valves make them a popular choice for manual or mechanical operation and their modular construction permit different operators to be fitted to the actuator and return assemblies.

Wide application range

The Midget and Intermediate valves are designed to have balanced forces across the spool so that 3/2 valves can be piped normally open or normally closed by changing the inlet supply from port 1 to port 3. Because forces across the spool are balanced 5/2 valves can also be piped in different ways to suit applications which require different pressures through the same valve. For example when a cylinder needs to advance with low force (pressure) to avoid bruising a component and retracts with normal pressure.

Fast operating speeds

The G1/8 Midget valve has a short travel and lightweight spool so that high operating speeds are possible. These valves have been tested at over 3000 cycles per minute.

Working medium, air quality

Working medium: Dry, filtered compressed air to ISO 8573-1 class 3.4.3.

Recommended air quality for valves

For best possible service life and trouble free operation, ISO 8573-1 quality class 3.4.3 should be used. This means 5µm filter (standard filter) dew point +3°C for indoor operation (a lower dew point should be selected for outdoor operation) and oil concentration 1.0 mg oil/m³, which is what a standard compressor with a standard filter gives.

High reliability

Valves easily comply with the requirements for the EU Machinery Directive standards EN292-2 and EN983. The bodies of the Midget and Intermediate valves are manufactured from aluminium with stainless steel spool, sealed by static viton ‘O’ rings. All operating parts exposed to the working fluid are of non-corrosive material and all ports threaded G1/8 or G1/4. The valves are designed to give long trouble free service life when used with or without lubrication.

Modular construction

The modular construction of the valves allows any of the actuators to be spring return or air pilot return. Roller versions are designed to give a common height on both 3/2 and 5/2 valves to ensure uniformity and efficiency in a multi-valve assembly.

Maintenance

These valves can be serviced without disturbing the pipe-work simply by unscrewing the actuator and return assemblies and then removing the spool and ‘O’ ring assembly.

ISO 8573-1 quality classes

<table>
<thead>
<tr>
<th>Quality class</th>
<th>Pollution max. concentration (mg/m³)</th>
<th>Water max. press. dew point (°C)</th>
<th>Oil max. concentration (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.1</td>
<td>-70</td>
<td>0.01</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>-40</td>
<td>0.1</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>-20</td>
<td>1.0</td>
</tr>
<tr>
<td>4</td>
<td>15</td>
<td>+3</td>
<td>5.0</td>
</tr>
<tr>
<td>5</td>
<td>40</td>
<td>+7</td>
<td>25</td>
</tr>
<tr>
<td>6</td>
<td>-</td>
<td>+10</td>
<td>-</td>
</tr>
</tbody>
</table>
**Material specification**

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
</tr>
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<tbody>
<tr>
<td>Valve body</td>
<td>Aluminium</td>
</tr>
<tr>
<td>Spool</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Seal spacers</td>
<td>Zinc die cast</td>
</tr>
<tr>
<td>Seals</td>
<td>Viton</td>
</tr>
<tr>
<td>Spring housing</td>
<td>Nylon</td>
</tr>
<tr>
<td>Spring</td>
<td>Zinc plated</td>
</tr>
<tr>
<td>End covers</td>
<td>Zinc die cast</td>
</tr>
<tr>
<td>Actuators</td>
<td>Zinc die cast</td>
</tr>
<tr>
<td>End cover screws</td>
<td>Zinc plated</td>
</tr>
</tbody>
</table>

**Technical information**

<table>
<thead>
<tr>
<th>Type</th>
<th>Spool valves</th>
</tr>
</thead>
<tbody>
<tr>
<td>Style</td>
<td>Body ported</td>
</tr>
<tr>
<td>Port size</td>
<td>G1/8 &amp; G1/4</td>
</tr>
<tr>
<td>Mounting</td>
<td>Any plane</td>
</tr>
<tr>
<td>Pressure range</td>
<td>Vacuum to 10 bar</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-10°C to +80°C</td>
</tr>
<tr>
<td>Flow acc. (to ISO 6358)</td>
<td></td>
</tr>
</tbody>
</table>

**Flow characteristics**

Flow capacities in accordance with ISO 6358
The flow curves shown below are typical.

**Midget B43 series valves**

Outlet pressure $P_2$ (bar)

**Intermediate B53 series valves**

Outlet pressure $P_2$ (bar)

---

Parker Hannifin Corporation
Pneumatic Division - Europe
## Midget mechanically operated valves, B43 series

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Type</th>
<th>Actuator</th>
<th>Return</th>
<th>Operating force at 6 bar, N</th>
<th>Size</th>
<th>Weight Kg</th>
<th>Order code</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td>3/2 Plunger Spring</td>
<td>36</td>
<td>G1/8</td>
<td>0,182</td>
<td></td>
<td>B43003CS</td>
<td></td>
</tr>
<tr>
<td><img src="image2.png" alt="Image" /></td>
<td>3/2 Plunger Air</td>
<td>14</td>
<td>G1/8</td>
<td>0,202</td>
<td></td>
<td>B43003CP</td>
<td></td>
</tr>
<tr>
<td><img src="image3.png" alt="Image" /></td>
<td>5/2 Plunger Spring</td>
<td>36</td>
<td>G1/8</td>
<td>0,222</td>
<td></td>
<td>B43004CS</td>
<td></td>
</tr>
<tr>
<td><img src="image4.png" alt="Image" /></td>
<td>5/2 Plunger Air</td>
<td>14</td>
<td>G1/8</td>
<td>0,242</td>
<td></td>
<td>B43004CP</td>
<td></td>
</tr>
<tr>
<td><img src="image5.png" alt="Image" /></td>
<td>3/2 Roller Lever Spring</td>
<td>20</td>
<td>G1/8</td>
<td>0,234</td>
<td></td>
<td>B43003RS</td>
<td></td>
</tr>
<tr>
<td><img src="image6.png" alt="Image" /></td>
<td>3/2 Roller lever Air</td>
<td>7</td>
<td>G1/8</td>
<td>0,254</td>
<td></td>
<td>B43003RP</td>
<td></td>
</tr>
<tr>
<td><img src="image7.png" alt="Image" /></td>
<td>5/2 Roller Lever Spring</td>
<td>20</td>
<td>G1/8</td>
<td>0,274</td>
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<td>B43004RS</td>
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</tr>
<tr>
<td><img src="image8.png" alt="Image" /></td>
<td>5/2 Roller lever Air</td>
<td>7</td>
<td>G1/8</td>
<td>0,294</td>
<td></td>
<td>B43004RP</td>
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</tr>
<tr>
<td><img src="image9.png" alt="Image" /></td>
<td>3/2 One way roller lever Spring</td>
<td>20</td>
<td>G1/8</td>
<td>0,274</td>
<td></td>
<td>B43003RTS</td>
<td></td>
</tr>
<tr>
<td><img src="image10.png" alt="Image" /></td>
<td>3/2 One way roller lever Air</td>
<td>7</td>
<td>G1/8</td>
<td>0,294</td>
<td></td>
<td>B43003RTP</td>
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<tr>
<td><img src="image11.png" alt="Image" /></td>
<td>5/2 One way roller lever Spring</td>
<td>20</td>
<td>G1/8</td>
<td>0,314</td>
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<td>B43004RTS</td>
<td></td>
</tr>
<tr>
<td><img src="image12.png" alt="Image" /></td>
<td>5/2 One way roller lever Air</td>
<td>7</td>
<td>G1/8</td>
<td>0,334</td>
<td></td>
<td>B43004RTP</td>
<td></td>
</tr>
</tbody>
</table>

Indicates stocked product.
## Intermediate mechanically operated valves, B53 series

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Type</th>
<th>Actuator</th>
<th>Return</th>
<th>Operating force at 6 bar, N</th>
<th>Size</th>
<th>Weight Kg</th>
<th>Order code</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Plunger Spring" /></td>
<td>3/2</td>
<td>Plunger</td>
<td>Spring</td>
<td>53</td>
<td>G1/4</td>
<td>0,348</td>
<td>B53003CS</td>
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<tr>
<td><img src="image" alt="Plunger Air" /></td>
<td>3/2</td>
<td>Plunger</td>
<td>Air</td>
<td>27</td>
<td>G1/4</td>
<td>0,388</td>
<td>B53003CP</td>
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<tr>
<td><img src="image" alt="Plunger Spring" /></td>
<td>5/2</td>
<td>Plunger</td>
<td>Spring</td>
<td>53</td>
<td>G1/4</td>
<td>0,478</td>
<td>B53004CS</td>
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<tr>
<td><img src="image" alt="Plunger Air" /></td>
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<td>Plunger</td>
<td>Air</td>
<td>27</td>
<td>G1/4</td>
<td>0,518</td>
<td>B53004CP</td>
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<tr>
<td><img src="image" alt="Roller Spring" /></td>
<td>3/2</td>
<td>Roller</td>
<td>Spring</td>
<td>53</td>
<td>G1/4</td>
<td>0,350</td>
<td>B53003RS</td>
</tr>
<tr>
<td><img src="image" alt="Roller Air" /></td>
<td>3/2</td>
<td>Roller</td>
<td>Air</td>
<td>27</td>
<td>G1/4</td>
<td>0,390</td>
<td>B53003RP</td>
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<tr>
<td><img src="image" alt="Roller Spring" /></td>
<td>5/2</td>
<td>Roller</td>
<td>Spring</td>
<td>53</td>
<td>G1/4</td>
<td>0,480</td>
<td>B53004RS</td>
</tr>
<tr>
<td><img src="image" alt="Roller Air" /></td>
<td>5/2</td>
<td>Roller</td>
<td>Air</td>
<td>27</td>
<td>G1/4</td>
<td>0,520</td>
<td>B53004RP</td>
</tr>
</tbody>
</table>

Indicates stocked product.
# Midget manually operated valves, B43 series

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Type</th>
<th>Actuator</th>
<th>Return</th>
<th>Operating force at 6 bar, N</th>
<th>Size</th>
<th>Weight Kg</th>
<th>Order code</th>
</tr>
</thead>
<tbody>
<tr>
<td>B43003BXS</td>
<td>3/2</td>
<td>Button, black</td>
<td>Spring</td>
<td>36</td>
<td>G1/8</td>
<td>0.200</td>
<td></td>
</tr>
<tr>
<td>B43003HXS</td>
<td>3/2</td>
<td>Button, black</td>
<td>Button</td>
<td>13</td>
<td>G1/8</td>
<td>0.200</td>
<td></td>
</tr>
<tr>
<td>B43004BXS</td>
<td>5/2</td>
<td>Button, black</td>
<td>Spring</td>
<td>36</td>
<td>G1/8</td>
<td>0.240</td>
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</tr>
<tr>
<td>B43004HXS</td>
<td>5/2</td>
<td>Button, black</td>
<td>Button</td>
<td>13</td>
<td>G1/8</td>
<td>0.240</td>
<td></td>
</tr>
<tr>
<td>B43003BXP</td>
<td>3/2</td>
<td>Button, black</td>
<td>Air</td>
<td>13</td>
<td>G1/8</td>
<td>0.200</td>
<td></td>
</tr>
<tr>
<td>B43003HXP</td>
<td>3/2</td>
<td>Button, black</td>
<td>Air</td>
<td>13</td>
<td>G1/8</td>
<td>0.200</td>
<td></td>
</tr>
<tr>
<td>B43004BXP</td>
<td>5/2</td>
<td>Button, black</td>
<td>Air</td>
<td>13</td>
<td>G1/8</td>
<td>0.240</td>
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<tr>
<td>B43004XHP</td>
<td>5/2</td>
<td>Button, black</td>
<td>Air</td>
<td>13</td>
<td>G1/8</td>
<td>0.280</td>
<td></td>
</tr>
<tr>
<td>B43003LS</td>
<td>3/2</td>
<td>Lock down lever</td>
<td>Spring</td>
<td>9</td>
<td>G1/8</td>
<td>0.202</td>
<td></td>
</tr>
<tr>
<td>B43004LS</td>
<td>3/2</td>
<td>Lock down lever</td>
<td>Spring</td>
<td>9</td>
<td>G1/8</td>
<td>0.242</td>
<td></td>
</tr>
<tr>
<td>B43003LP</td>
<td>3/2</td>
<td>Lock down lever</td>
<td>Air</td>
<td>3</td>
<td>G1/8</td>
<td>0.240</td>
<td></td>
</tr>
<tr>
<td>B43004LP</td>
<td>3/2</td>
<td>Lock down lever</td>
<td>Air</td>
<td>3</td>
<td>G1/8</td>
<td>0.280</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** The standard button colour is black (X)
For optional colour buttons change 8th character of order code e.g. B43004HXS = Black button, B43004HZS = Green button, B43004HYS = Red button.
X = Black
Z = Green
Y = Red

Indicates stocked product.

All 3/2 type B43 & B53 valves can be connected either as normally closed 3/2 valve (NC) or normally open 3/2 valve (NO) as required, by connecting the primary air supply to port 1 or port 3.
### Intermediate manually operated valves, B53 series

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Type</th>
<th>Actuator</th>
<th>Return</th>
<th>Operating force at 6 bar, N</th>
<th>Size</th>
<th>Weight (Kg)</th>
<th>Order code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ⓐ</td>
<td>3/2</td>
<td>Button, black</td>
<td>Spring</td>
<td>53</td>
<td>G1/4</td>
<td>0.368</td>
<td>B53003HXS</td>
</tr>
<tr>
<td>Ⓑ</td>
<td>3/2</td>
<td>Button, black</td>
<td>Button</td>
<td>27</td>
<td>G1/4</td>
<td>0.368</td>
<td>B53003HX</td>
</tr>
<tr>
<td>Ⓔ</td>
<td>3/2</td>
<td>Button, black</td>
<td>Air</td>
<td>27</td>
<td>G1/4</td>
<td>0.380</td>
<td>B53003HXP</td>
</tr>
<tr>
<td>Ⓐ</td>
<td>5/2</td>
<td>Button, black</td>
<td>Spring</td>
<td>53</td>
<td>G1/4</td>
<td>0.498</td>
<td>B53004HXS</td>
</tr>
<tr>
<td>Ⓑ</td>
<td>5/2</td>
<td>Button, black</td>
<td>Button</td>
<td>27</td>
<td>G1/4</td>
<td>0.498</td>
<td>B53004HX</td>
</tr>
<tr>
<td>Ⓔ</td>
<td>5/2</td>
<td>Button, black</td>
<td>Air</td>
<td>27</td>
<td>G1/4</td>
<td>0.510</td>
<td>B53004HXP</td>
</tr>
<tr>
<td>Ⓑ</td>
<td>5/3</td>
<td>Button Closed centre position</td>
<td>Button Self centring</td>
<td>53</td>
<td>G1/4</td>
<td>0.623</td>
<td>B53004HXX</td>
</tr>
<tr>
<td>Ⓑ</td>
<td>5/3</td>
<td>Button Vented centre position</td>
<td>Button Self centring</td>
<td>53</td>
<td>G1/4</td>
<td>0.623</td>
<td>B53004HXY</td>
</tr>
<tr>
<td>Ⓑ</td>
<td>5/3</td>
<td>Button Pressurised centre position</td>
<td>Button Self centring</td>
<td>53</td>
<td>G1/4</td>
<td>0.623</td>
<td>B53004HXZ</td>
</tr>
</tbody>
</table>

**Note:** The standard button colour is black (X)
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- X = Black
- Z = Green
- Y = Red

---

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All 3/2 type B43 & B53 valves can be connected either as normally closed 3/2 valve (NC) or normally open 3/2 valve (NO) as required, by connecting the primary air supply to port 1 or port 3.
# Intermediate lever operated valves, B53 series

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Type</th>
<th>Actuator</th>
<th>Return</th>
<th>Operating force at 6 bar, N</th>
<th>Size</th>
<th>Weight Kg</th>
<th>Order code</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Symbol" /></td>
<td>3/3</td>
<td>Lever</td>
<td>Closed centre position</td>
<td>Lever</td>
<td>14</td>
<td>G1/4</td>
<td>0.780</td>
</tr>
<tr>
<td><img src="image2.png" alt="Symbol" /></td>
<td>5/3</td>
<td>Lever</td>
<td>Closed centre position</td>
<td>Lever</td>
<td>14</td>
<td>G1/4</td>
<td>0.780</td>
</tr>
</tbody>
</table>

### Mounting kit

| Panel mounting kit | 0.040 | M53004L-10A |

Kit includes panel plate and M5 counter sunk head screws

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Indicates stocked product.
Midget & Intermediate Manual and Mechanical Valves

### B43/53 Series

**Midget foot operated valves, B43 series**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Type</th>
<th>Actuator</th>
<th>Return</th>
<th>Operating force at 6 bar, N</th>
<th>Size</th>
<th>Weight Kg</th>
<th>Order code</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Symbol" /></td>
<td>3/2</td>
<td>Foot pedal</td>
<td>Spring</td>
<td>16</td>
<td>G1/8</td>
<td>0.312</td>
<td>B43003FS</td>
</tr>
<tr>
<td><img src="image2.png" alt="Symbol" /></td>
<td>5/2</td>
<td>Foot pedal</td>
<td>Spring</td>
<td>16</td>
<td>G1/8</td>
<td>0.370</td>
<td>B43004FS</td>
</tr>
</tbody>
</table>

**Intermediate foot operated valves, B53 series**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Type</th>
<th>Actuator</th>
<th>Return</th>
<th>Operating force at 6 bar, N</th>
<th>Size</th>
<th>Weight Kg</th>
<th>Order code</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3.png" alt="Symbol" /></td>
<td>Single pedal operated</td>
<td>3/2</td>
<td>Foot pedal</td>
<td>Spring</td>
<td>95</td>
<td>G1/4</td>
<td>1.34</td>
</tr>
<tr>
<td><img src="image4.png" alt="Symbol" /></td>
<td>5/2</td>
<td>Foot pedal</td>
<td>Spring</td>
<td>95</td>
<td>G1/4</td>
<td>1.48</td>
<td>B53004FS</td>
</tr>
<tr>
<td><img src="image5.png" alt="Symbol" /></td>
<td>Rocker pedal operated</td>
<td>3/2</td>
<td>Foot pedal</td>
<td>Foot pedal</td>
<td>18</td>
<td>G1/4</td>
<td>1.38</td>
</tr>
<tr>
<td><img src="image6.png" alt="Symbol" /></td>
<td>5/2</td>
<td>Foot pedal</td>
<td>Foot pedal</td>
<td>18</td>
<td>G1/4</td>
<td>1.58</td>
<td>B53004G</td>
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<tr>
<td><img src="image7.png" alt="Symbol" /></td>
<td>5/3</td>
<td>Foot pedal</td>
<td>Foot pedal</td>
<td>Foot pedal</td>
<td>18</td>
<td>G1/4</td>
<td>1.68</td>
</tr>
<tr>
<td><img src="image8.png" alt="Symbol" /></td>
<td>5/3</td>
<td>Foot pedal</td>
<td>Foot pedal</td>
<td>Foot pedal</td>
<td>18</td>
<td>G1/4</td>
<td>1.68</td>
</tr>
<tr>
<td><img src="image9.png" alt="Symbol" /></td>
<td>5/3</td>
<td>Foot pedal</td>
<td>Foot pedal</td>
<td>Foot pedal</td>
<td>18</td>
<td>G1/4</td>
<td>1.68</td>
</tr>
</tbody>
</table>

**Accessories**

<table>
<thead>
<tr>
<th>Accessory</th>
<th>1.16</th>
<th>3117</th>
</tr>
</thead>
</table>

*Foot guard kit*

---

Indicates stocked product.
Mechanically operated valves

### 3/2 valves
- Plunger operated spring return

### 5/2 valves
- Plunger operated spring return

#### 3/2 valves
- Roller operated spring return

#### 5/2 valves
- One way roller trip operate spring return

---

**Dimensions, G1/8 ported spool valves**
All dimensions in mm unless otherwise stated

**B43 Series**

**Operated Full stroke**

---

**Optional foot mounted - Spring return housing**
Dimensions, G1/8 ported spool valves
All dimensions in mm unless otherwise stated

Manually operated valves

3/2 valves
Button operated spring return or button returned

5/2 valves
Lock down lever operated spring return

3/2 valves
Foot pedal operated spring return

5/2 valves
Foot pedal operated spring return

Air Pilot Return

Optional foot mounted - Spring return housing
Midget & Intermediate Manual and Mechanical Valves

Dimensions, G1/4 ported spool valves
All dimensions in mm unless otherwise stated

Mechanically operated valves

3/2 valves
Plunger operated spring return

5/2 valves
Plunger operated spring return

3/2 valves
Roller operated spring return

5/2 valves
Roller operated spring return

Air Pilot Return
Dimensions, G1/4 ported spool valves

All dimensions in mm unless otherwise stated

Manually operated valves

3/2 valves

Button operated spring return
or button returned

5/2 valves

Button operated spring return
or button returned

Air Pilot Return

Parker Hannifin Corporation
Pneumatic Division - Europe
Dimensions, G1/4 ported spool valves
All dimensions in mm unless otherwise stated

Manually operated valves

3/3 valves (Self centring)
Lever operated

5/3 valves (Self centring)
Lever operated

3/3 valves (3 positions)
Lever operated

5/3 valves (3 positions)
Lever operated

Air Pilot Return

Parker Hannifin Corporation
Pneumatic Division - Europe
Dimensions, G1/4 ported spool valves

All dimensions in mm unless otherwise stated

Manually operated valves

3/2 valves

Foot pedal operated spring return

5/2 valves

Foot pedal operated spring return

3/2 valves

Foot pedal operated

5/2 valves

Foot pedal operated
Dimensions, G1/4 ported spool valves

All dimensions in mm unless otherwise stated

Manually operated valves

5/3 valves

Foot pedal operated

Foot guard kit

3117
## Service and Replacement Parts

### B43 Series Manually Operated Valves

<table>
<thead>
<tr>
<th>Order code</th>
<th>Actuator</th>
<th>Replacement actuator</th>
<th>Repair kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>B43003BXS</td>
<td>Button</td>
<td>43004BX-100</td>
<td></td>
</tr>
<tr>
<td>B43004BXS</td>
<td>Button</td>
<td>43004H-100</td>
<td>43007A</td>
</tr>
<tr>
<td>B43003LS</td>
<td>Lockdown lever</td>
<td>43004L-200</td>
<td></td>
</tr>
<tr>
<td>B43004LS</td>
<td>Lockdown lever</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### B53 Series Manually Operated Valves

<table>
<thead>
<tr>
<th>Order code</th>
<th>Actuator</th>
<th>Replacement actuator</th>
<th>Repair kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>B53003HXS</td>
<td>Button</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B53004HXS</td>
<td>Button</td>
<td>53004HX-100</td>
<td></td>
</tr>
<tr>
<td>B53004HX</td>
<td>Button, Self centring</td>
<td>53007</td>
<td></td>
</tr>
<tr>
<td>B53004HXY</td>
<td>Button, Self centring</td>
<td></td>
<td></td>
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<tr>
<td>B53004HXZ</td>
<td>Button, Self centring</td>
<td></td>
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<tr>
<td>B53003FS</td>
<td>Foot</td>
<td>53004F-100</td>
<td></td>
</tr>
<tr>
<td>B53004FS</td>
<td>Foot</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B53003LS</td>
<td>Lever</td>
<td>53004L-198</td>
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<tr>
<td>B53004LS</td>
<td>Lever</td>
<td></td>
<td></td>
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<tr>
<td>B53003LT</td>
<td>Lever, 2 positions</td>
<td>53004L-196</td>
<td></td>
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<tr>
<td>B53004LT</td>
<td>Lever, 2 positions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B53004L</td>
<td>Lever, 3 positions</td>
<td>53004L-100</td>
<td></td>
</tr>
<tr>
<td>B53004LW</td>
<td>Lever, 3 positions</td>
<td>53004L-300R</td>
<td></td>
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<tr>
<td>B53004LX</td>
<td>Lever, Self centring</td>
<td>53004L-198</td>
<td></td>
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<tr>
<td>B53004LY</td>
<td>Lever, Self centring</td>
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<td></td>
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### B43 Series Mechanically Operated Valves

<table>
<thead>
<tr>
<th>Order code</th>
<th>Actuator</th>
<th>Replacement actuator</th>
<th>Repair kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>B43003CS</td>
<td>Plunger</td>
<td>43004C-100</td>
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</tr>
<tr>
<td>B43004CS</td>
<td>Plunger</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B43003RS</td>
<td>Roller Lever</td>
<td>43004R-200</td>
<td>43007A</td>
</tr>
<tr>
<td>B43004RS</td>
<td>Roller Lever</td>
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<td></td>
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</tbody>
</table>

### B53 Series Mechanically Operated Valves

<table>
<thead>
<tr>
<th>Order code</th>
<th>Actuator</th>
<th>Replacement actuator</th>
<th>Repair kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>B53003CS</td>
<td>Plunger</td>
<td>53004C-100</td>
<td></td>
</tr>
<tr>
<td>B53004CS</td>
<td>Plunger</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B53003RS</td>
<td>Roller</td>
<td>53004R-100</td>
<td>53007</td>
</tr>
<tr>
<td>B53004RS</td>
<td>Roller</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Indicates stocked product.*
Lubricating Oils

To ensure long life and trouble free service from valves, it is recommended the equipment should be adequately lubricated by means of lubricators which disperse oil into the system. Only paraffinic based oils can be used, and the following recommendations are given as a general guide to types of oil that are suitable for use with Parker Pneumatic equipment.

The list opposite does not preclude the use of oils manufactured by other companies but oils must be paraffinic based.

As a general guide, lubricator drip rates should be 1 drip/minute for every 5 litre/second (10 cubic feet per minute) passed through the equipment.

<table>
<thead>
<tr>
<th>Oil company</th>
<th>Grade</th>
<th>Viscosity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Century oils</td>
<td>P.W.L.A</td>
<td>32</td>
</tr>
<tr>
<td>Alexander Duckham</td>
<td>Zircon 4</td>
<td>32</td>
</tr>
<tr>
<td>Gulf oil (GB) Limited</td>
<td>Harmony 43 AW</td>
<td>32</td>
</tr>
<tr>
<td>Shell (UK) oil</td>
<td>Tellus 37</td>
<td>37</td>
</tr>
<tr>
<td>Burmah Castrol</td>
<td>Hyspin AWS 32</td>
<td>32</td>
</tr>
<tr>
<td>Edgar Vaughan</td>
<td>Y Hydrodrive HP 100</td>
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<tr>
<td>Esso Petroleum</td>
<td>Nuto H32</td>
<td>32</td>
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<tr>
<td>B.P.</td>
<td>HLP 32</td>
<td>32</td>
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<tr>
<td>Mobile Oil Company</td>
<td>DTE Oil - Light</td>
<td>32</td>
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<tr>
<td>Motul</td>
<td>VPI-A</td>
<td>32</td>
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<tr>
<td>Silkolene</td>
<td>Derwent 32</td>
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Accessories

Sintered bronze series

<table>
<thead>
<tr>
<th>Port</th>
<th>Order code</th>
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</thead>
<tbody>
<tr>
<td>G1/8</td>
<td>9090050700</td>
<td>1</td>
</tr>
<tr>
<td>G1/4</td>
<td>P6M-BAA2</td>
<td>1</td>
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</table>

Male straight connectors - Parallel thread

<table>
<thead>
<tr>
<th>Tube Ø1</th>
<th>Thread B</th>
<th>Order code</th>
<th>Box Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>1/8</td>
<td>F4PMB4-1/8</td>
<td>20</td>
</tr>
<tr>
<td>6</td>
<td>1/8</td>
<td>F4PMB6-1/8</td>
<td>30</td>
</tr>
<tr>
<td>6</td>
<td>1/4</td>
<td>F4PMB6-1/4</td>
<td>30</td>
</tr>
<tr>
<td>8</td>
<td>1/8</td>
<td>F4PB8-1/8</td>
<td>40</td>
</tr>
<tr>
<td>8</td>
<td>1/4</td>
<td>F4PB8-1/4</td>
<td>30</td>
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<tr>
<td>8</td>
<td>3/8</td>
<td>F4PB8-3/8</td>
<td>20</td>
</tr>
<tr>
<td>10</td>
<td>1/4</td>
<td>F4PB10-1/4</td>
<td>20</td>
</tr>
</tbody>
</table>

*Indicates stocked product.*