Actuators

**RM/59100/C**

Miniature Roundline cylinders
Single acting, spring return
Ø 2.5 & 4 mm

Ideal for very light load applications such as function testing mobile phones and keyboards
Low friction characteristics mean high speeds
No fittings required - all types feature one integral push on barbed connector
Long service life and corrosion resistant materials mean low cost of ownership

**Technical data**

Medium:
Compressed air, filtered, lubricated or non-lubricated

Operating pressure:
50.75 to 101.5 psig (3.5 to 7 bar)

Operating temperature:
32°F to 140°F (0°C to 60°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

Cylinder diameters:
2.5 and 4 mm

Strokes:
5, 10 mm - Ø 2.5 mm
5, 10, 15, 20 mm - Ø 4 mm

**Materials**

Barrel: stainless steel
End caps: aluminum alloy
Piston rod: stainless steel
Elastomers: nitrile

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**Standard strokes**

<table>
<thead>
<tr>
<th>Cylinder Ø mm</th>
<th>Strokes (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td>5, 10, 15, 20</td>
</tr>
<tr>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**Options selector**

<table>
<thead>
<tr>
<th>Strokes (mm)</th>
<th>RM/59100/C/10</th>
</tr>
</thead>
<tbody>
<tr>
<td>5, 10</td>
<td></td>
</tr>
<tr>
<td>5, 10, 15, 20</td>
<td></td>
</tr>
</tbody>
</table>

**Actuator selection**

To order a basic 2.5 mm diameter cylinder, sprung in with a 10mm stroke quote: **RM/59102/C/10**
Miniature Roundline cylinders
Single acting
Ø 2.5 & 4 mm

Theoretical forces / Air consumption / Weight of cylinders

<table>
<thead>
<tr>
<th>Ø mm</th>
<th>Theoretical forces N at 6 bar</th>
<th>Air consumption I/cm at 6 bar</th>
<th>Weight kg by stroke length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Outstroke</td>
<td>F1</td>
<td>Instroke</td>
</tr>
<tr>
<td>2.5</td>
<td>2.9</td>
<td>0.7</td>
<td>0.001</td>
</tr>
<tr>
<td>4</td>
<td>7.6</td>
<td>1.2</td>
<td>0.003</td>
</tr>
</tbody>
</table>

F1 = Return force

Basic dimensions in mm
RM/59102/C

RM/59104/C

Note: push-on connector is suitable for 4mm O/D, 2.5 mm I/D polyurethane tubing