Interchangeability of connecting parts of masks connectors and tubing are needed to assure proper assemble of anaesthetic and breathing system. Gauges for testing these connection are used for manufacturing and inspection of equipment and incoming inspection at medical institutions.

- **Advantages**
  Used for inspection of tapered portion accordance with ISO 5656-1 (JIS T 7201-1). Properly inspect ISO requirements [conical connections need to be secure but nevertheless disconnectable by the operator.]. Precisely finished gauges with lapping process ensure accuracy and quality of connecting medical equipment.
### Example of use
(Plug and Ring test gauges for conical connectors made of materials other than metal.)

![Plug test gauge](image1)

![Ring test gauge](image2)

#### Dimension of gauges

![Diagram of gauges](image3)

1. Surface A
2. Surface B
3. Step to check position against surface A precisely with matched gauge.
4. Step to check position against surface B precisely with matched gauge.
5. Reference step

#### Specification

<table>
<thead>
<tr>
<th>Size of connector</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>Taper ratio</th>
<th>Taper tolerance in diameter per length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15mm</td>
<td>15.525 ± 0.005</td>
<td>15.525 ± 0.005</td>
<td>14.5 ± 0.005</td>
<td>4.3 ± 0.005</td>
<td>2.2 ± 0.005</td>
<td>1:40</td>
<td>0.025 ± 0.0002</td>
<td></td>
</tr>
<tr>
<td>22mm</td>
<td>22.425 ± 0.005</td>
<td>21.94 ± 0.005</td>
<td>19.5 ± 0.005</td>
<td>5.2 ± 0.005</td>
<td>2.2 ± 0.005</td>
<td>1:40</td>
<td>0.025 ± 0.0002</td>
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<tr>
<td>30mm</td>
<td>39.98 ± 0.005</td>
<td>30.12 ± 0.005</td>
<td>15.0 ± 0.005</td>
<td>3.1 ± 0.005</td>
<td>1.6 ± 0.005</td>
<td>1:40</td>
<td>0.050 ± 0.0002</td>
<td></td>
</tr>
</tbody>
</table>