Type **TW230**

**WEH® Connector for pressure and vacuum testing**

of straight tubes and bores
General

**DESCRIPTION**

Features
- Connection in seconds
- No hand tightening required
- For connection into straight tubes and bores
- WEH® Jaw locking mechanism
- No seal adjustment required
- Wide range of tube tolerances up to ± 0.25 mm
- High-grade materials

The WEH® TW230 Quick Connector is suitable for underwater, pressure decay and helium testing. The connector is equipped with a safety system that prevents the TW230 from being inadvertently disconnected whilst under pressure. The radial sealing system works reliably and effectively.

**Application**

Quick connector for pressure and vacuum testing of straight tubes and bores (internal diameter), as for example underwater, pressure decay and helium testing, heat exchangers, pressure vessels, valves, transducers, compressors, condensers, evaporation coils, component and tubing systems, air conditioners, heating systems etc.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Basic version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating pressure PS</td>
<td>Vacuum up to max. 70 bar</td>
</tr>
<tr>
<td>Temperature range</td>
<td>+5 °C up to +80 °C</td>
</tr>
<tr>
<td>Leak rate</td>
<td>$1 \times 10^{-3}$ mbar x l/s</td>
</tr>
<tr>
<td>Medium</td>
<td>Water, air, for a large variety of refrigerants and oils (please indicate when ordering)</td>
</tr>
<tr>
<td>Surface finish of test piece</td>
<td>$\leq$ Rz8 μm - surfaces greater than Rz8 μm are not recommended</td>
</tr>
<tr>
<td>Material hardness of test piece</td>
<td>Max. hardness 28 HRC Connection to copper tubes</td>
</tr>
<tr>
<td>Material</td>
<td>Clamping jaws: Corrosion-resistant stainless steel, hardened</td>
</tr>
<tr>
<td></td>
<td>Housing: Anodized aluminium</td>
</tr>
<tr>
<td>Sealing material</td>
<td>Main seal of NBR</td>
</tr>
</tbody>
</table>

Example of use:

Other designs on request
**Ordering**

**ORDERING | WEH® TW230 Quick Connector – body size 1**

approx. dimensions [mm]

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Body size</th>
<th>Sealing range internal tube Ø A ± 0.25</th>
<th>Inlet B1 (internal thread)</th>
<th>Lmin*</th>
<th>Seal set (consists of 5 front seals + 1 retaining ring)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-128668</td>
<td>1</td>
<td>9.5 [3/8&quot;]</td>
<td>G1/8”</td>
<td>13.5</td>
<td>B200B-129358</td>
</tr>
<tr>
<td>C1-128734</td>
<td>1</td>
<td>10.0</td>
<td>G1/8”</td>
<td>13.5</td>
<td>B200B-129364</td>
</tr>
<tr>
<td>C1-128432</td>
<td>1</td>
<td>10.5</td>
<td>G1/8”</td>
<td>13.5</td>
<td>B200B-129369</td>
</tr>
<tr>
<td>C1-128742</td>
<td>1</td>
<td>11.0 [7/16&quot;]</td>
<td>G1/8”</td>
<td>13.5</td>
<td>B200B-129373</td>
</tr>
<tr>
<td>C1-128745</td>
<td>1</td>
<td>11.5</td>
<td>G1/8”</td>
<td>13.5</td>
<td>B200B-129376</td>
</tr>
<tr>
<td>C1-128750</td>
<td>1</td>
<td>12.0</td>
<td>G1/8”</td>
<td>13.5</td>
<td>B200B-129381</td>
</tr>
<tr>
<td>C1-128754</td>
<td>1</td>
<td>12.5</td>
<td>G1/8”</td>
<td>13.5</td>
<td>B200B-129385</td>
</tr>
<tr>
<td>C1-128756</td>
<td>1</td>
<td>12.7 [1/2&quot;]</td>
<td>G1/8”</td>
<td>13.5</td>
<td>B200B-129387</td>
</tr>
<tr>
<td>C1-128758</td>
<td>1</td>
<td>13.0</td>
<td>G1/8”</td>
<td>13.5</td>
<td>B200B-129389</td>
</tr>
<tr>
<td>C1-128763</td>
<td>1</td>
<td>13.5</td>
<td>G1/8”</td>
<td>13.5</td>
<td>B200B-129394</td>
</tr>
<tr>
<td>C1-128767</td>
<td>1</td>
<td>14.0</td>
<td>G1/8”</td>
<td>13.5</td>
<td>B200B-129398</td>
</tr>
</tbody>
</table>

* Lmin: minimum length required for insertion of test piece

When ordering, please state if testing reinforced fibre glass or plastic test pieces.
### Ordering

**ORDERING | WEH® TW230 Quick Connector – body size 2**

approx. dimensions (mm)

---

**Part No.** | **Body size** | **Sealing range internal tube Ø** | **Inlet B1 (internal thread)** | **Lmin*** | **Seal set (consists of 5 front seals + 2 retaining rings)**
--- | --- | --- | --- | --- | ---
C1-128770 | 2 | 14.5 | G1/8” | 16.0 | B200B-129401
C1-128774 | 2 | 15.0 | G1/8” | 16.0 | B200B-129405
C1-128778 | 2 | 15.5 | G1/8” | 16.0 | B200B-129409
C1-128782 | 2 | 15.9 (5/8”) | G1/8” | 16.0 | B200B-129414
C1-128783 | 2 | 16.0 | G1/8” | 16.0 | B200B-129415
C1-128789 | 2 | 16.5 | G1/8” | 16.0 | B200B-129421
C1-128792 | 2 | 17.0 | G1/8” | 16.0 | B200B-129424
C1-128796 | 2 | 17.5 | G1/8” | 16.0 | B200B-129434
C1-128798 | 2 | 18.0 | G1/8” | 16.0 | B200B-129436
C1-128802 | 2 | 18.5 | G1/8” | 16.0 | B200B-129441
C1-128805 | 2 | 19.05 (3/4”) | G1/8” | 16.0 | B200B-129445
C1-128809 | 2 | 19.5 | G1/8” | 16.0 | B200B-129449
C1-128810 | 2 | 20.0 | G1/8” | 16.0 | B200B-129450
C1-128813 | 2 | 20.5 | G1/8” | 16.0 | B200B-129453
C1-128816 | 2 | 21.0 | G1/8” | 16.0 | B200B-129456
C1-128818 | 2 | 21.5 | G1/8” | 16.0 | B200B-129458
C1-128820 | 2 | 22.0 | G1/8” | 16.0 | B200B-129460
C1-128821 | 2 | 22.2 (7/8”) | G1/8” | 16.0 | B200B-129461

* Lmin: minimum length required for insertion of test piece

** Seal sets for body size 2 with a sealing range < 15.9 mm contain only 1 retaining ring

Additional sizes are available up to sealing range 40.0 mm.

When ordering, please state if testing reinforced fibre glass or plastic test pieces.

The TW230 quick connector is available in 0.5 mm steps starting from 9.5 mm up to 40.0 mm as well as all standard imperial sizes. Please contact us!

Other connector sizes and versions on request. Required information for ordering see page 9, catalogue no. 35.
ACCESSORIES

The following accessories are available for WEH® TW230:

Screw plug

If the WEH® Connector is to be used as a plug, the media inlet 'B1' will be sealed with a screw plug of brass (low pressure range) or alternatively stainless steel (high pressure range). It is recommended that the media compatibility of the seal be tested by the customer!

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Thread (external thread)</th>
<th>Pressure range</th>
</tr>
</thead>
<tbody>
<tr>
<td>E69-9200</td>
<td>Screw plug (low pressure)</td>
<td>G1/8&quot;</td>
<td>0 - 50 bar</td>
</tr>
<tr>
<td>W9329</td>
<td>Screw plug (high pressure)</td>
<td>G1/8&quot;</td>
<td>50 - 350 bar</td>
</tr>
</tbody>
</table>
OTHER PRODUCTS

You will find more products in our current catalogue no. 35

Further information on our homepage
www.weh.com

Contacting
For queries and further information, please do not hesitate to contact us.

Manufacturer:
WEH GmbH Precision Connectors
Josef-Henle-Str. 1
89257 Illertissen / Germany
Phone: +49 7303 9609-0
Fax: +49 7303 9609-9999
Email: sales@weh.com
www.weh.com