Type **TN1 H₂ High-Flow**

**WEH® Receptacle**

for refuelling of buses and trucks with hydrogen
Type TN1 H₂ High-Flow | Receptacle for refuelling of buses and trucks

General

DESCRIPTION

The WEH® TN1 H₂ Receptacle was developed to be used with the WEH® TK16 H₂ High-Flow Fuelling Nozzle, enabling to refuel buses and trucks from now on at car fuelling stations. Refuelling with a higher speed occurs either with a TK16 H₂ Fuelling Nozzle or with a TK16 H₂ High-Flow Fuelling Nozzle. Due to the internal aerodynamic design the receptacle gives low noise [no high frequency whistle] combined with maximum flow rate and fast filling. The receptacle is a very durable unit, minimizing maintenance and down-time. The WEH® TN1 H₂ High-Flow Receptacle has an integrated check valve system which is designed to minimize the effect that dirt particles have on the sealing components within the receptacle. The TN1 H₂ High-Flow is also equipped with a coding for pressure range and gas type.

Enhanced safety by integrating a particle filter
Using an integrated particle filter avoids dirt ingress and therefore leakage from the receptacle which gives enhanced safety.

Application
Receptacle for refuelling of buses and trucks with hydrogen.

FEATURES
- Flow rate approx. 100 - 120 g/sec.
- Low-noise refuelling
- Integrated self-cleaning particle filter (40 micron)
- Integrated high-flow check valve
- Sealing-friendly design
- Coding for pressure range / gas type

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Basic version</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal bore DN</td>
<td>Max. 8 mm, depending on design</td>
<td>On request</td>
</tr>
<tr>
<td>Pressure range</td>
<td>PN = 350 bar [5,000 psi]</td>
<td>PS = 450 bar</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-40 °C up to +85 °C [-40 °F up to +185 °F]</td>
<td>On request</td>
</tr>
<tr>
<td>Material</td>
<td>Corrosion resistant</td>
<td>On request</td>
</tr>
<tr>
<td>Sealing material</td>
<td>Hydrogen compatible</td>
<td>On request</td>
</tr>
<tr>
<td>Design</td>
<td>With protection cap, integrated particle filter (40 micron), integrated check valve and fittings [only for receptacles with tube fitting]</td>
<td>On request</td>
</tr>
</tbody>
</table>
Type **TN1 H₂ High-Flow** | Receptacle for refuelling of buses and trucks

**Ordering**

**ORDERING | WEH® TN1 H₂ High-Flow Receptacle with tube fitting**

approx. dimensions [mm]

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>DN</th>
<th>Pressure (PN)</th>
<th>Port B2</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-85040</td>
<td>TN1 H₂ High-Flow (e1)</td>
<td>8</td>
<td>350 bar / 5,000 psi</td>
<td>Tube Ø 12*</td>
</tr>
</tbody>
</table>

* double ferrule fitting
### Ordering

**ORDERING | WEH® TN1 H₂ High-Flow Receptacle with external thread, prepared for data interface**

approx. dimensions [mm]

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>DN</th>
<th>Pressure (PN)</th>
<th>Port B2 (external thread)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-94306</td>
<td>TN1 H₂ High-Flow (e1)</td>
<td>6</td>
<td>350 bar / 5,000 psi</td>
<td>UN 11/16&quot;-16 for sealing with O-Lok® Face Seal* for tube Ø 10 (3/8&quot;)</td>
</tr>
<tr>
<td>C1-112679</td>
<td>TN1 H₂ High-Flow (e1)</td>
<td>8</td>
<td>350 bar / 5,000 psi</td>
<td>UN 13/16&quot;-16 for sealing with O-Lok® Face Seal* for tube Ø 12.7 (1/2&quot;)</td>
</tr>
</tbody>
</table>

* Face Seal acc. to SAE J1453

** Please indicate when ordering if thicker sheet metals are needed!

Data interface not included!
**Type TN1 H₂ High-Flow** | Receptacle for refuelling of buses and trucks

### Ordering / Spare parts

**ORDERING** | WEH® TN1 H₂ High-Flow Receptacle with tube fitting, prepared for data interface

approx. dimensions [mm]

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>DN</th>
<th>Pressure [PN]</th>
<th>Port B2</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-105920</td>
<td>TN1 H₂ High-Flow (e1)</td>
<td>6</td>
<td>350 bar / 5,000 psi</td>
<td>Tube Ø 10*</td>
</tr>
</tbody>
</table>

* double ferrule fitting
** Please indicate when ordering if thicker sheet metals are needed!
Data interface and fittings not included!

Other connection sizes and versions on request.

**SPARE PARTS**

Various parts are available as spares for the WEH® TN1 H₂ High-Flow Receptacle:

**Protection cap**

Protection cap with a strap to protect the TN1 H₂ High-Flow receptacle from dirt ingress.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>C1-87803</td>
<td>Protection cap</td>
</tr>
<tr>
<td>C1-85984</td>
<td>Protection cap for receptacles prepared for data interface</td>
</tr>
</tbody>
</table>
Other products

You will find more products in our current catalogue no. 50

Further information on our homepage
www.weh.com

Contacting

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

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