For the measurement of liquid levels on boilers by means of a differential pressure gauge, a fitting is required, in which the condensate reference column required for the measurement is formed. The fitting consists of a single balancing vessel with a welded T-fitting for the upper sampling and a separate, loosely packed, T-fitting for the lower sampling.

The connecting tube between the upper and lower T-fittings has to be supplied by the customer. It is not part of the ABB installation material, but has to be supplied and welded on by the respective boiler manufacturer.

Installation and welding work are not included in the scope of delivery.
The operating range of the fitting has to be determined from the following graph according to the operating data of the measuring point.

Example of a measuring arrangement
for water level measurement on a boiler

Application for balancing vessels as per DIN 19211

Size 2, Form B:
1 Upper sampling: Welded connection for pipe 31.8 × 3.6
2 Lower sampling: Welded connection for pipe 31.8 × 3.6
3 Cross connection: Tube 21.3 × 2 (supplied by customer)
4 Outlet: Non-soldered pipe fitting with ferrule DS 12 to DIN 2353 for pipe Ø 12 mm

Size 4, Form C:
1 Upper sampling: Welded connection for pipe 33.7 × 5
2 Lower sampling: Welded connection for pipe 33.7 × 5
3 Cross connection: Tube 30 × 5 (supplied by customer)
4 Outlet: Welded connection for tube 14 × 2.5

Materials
If required, the vessel (Code No. 301) can be certified with manufacturer’s certificate acc. to Section 9 (2) 1. of the Pressurized Containers Ordinance as well as with material certificates acc. to DIN 50049 3.1 A (3.1 B only for T-pieces of C22.3) for the materials used and is thus prepared for a subsequent overall acceptance test by the TÜV (Technical Inspectorate) at the operator’s premises.
### Ordering information

<table>
<thead>
<tr>
<th>Balancing vessel with T-fittings</th>
<th>kg approx.</th>
<th>Volume approx.</th>
<th>Catalog No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 2 Form B</td>
<td>3.4</td>
<td>300 cm³</td>
<td>14940-0859964</td>
</tr>
<tr>
<td>Size 4 Form C</td>
<td>4.5</td>
<td>250 cm³</td>
<td>14940-0859965</td>
</tr>
</tbody>
</table>

### Additional ordering information

- Manufacturer’s certificate and material certificate: 14999-07957512