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Železniške naprave - Vagoni-cisterne - 8. del: Ogrevalni priključki

Railway applications - Tank wagons - Part 8: Heating connections

Bahnanwendungen - Kesselwagen - Teil 8: Heizanschlüsse

Applications ferroviaires - Wagons citernes - Partie 8 : Raccordements de réchauffage

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Railway applications - Tank wagons - Part 8: Heating connections

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (FprEN 12561-8:2010) has been prepared by Technical Committee CEN/TC 256 “Railway applications”, the secretariat of which is held by DIN.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 12561-8:2004.

This series of European Standards "Railway applications — Tank wagons" consists of the following parts:

— Part 1: Identification plates for tank wagons for the carriage of dangerous goods;

— Part 2: Bottom emptying devices for liquid products including vapour return;

— Part 3: Bottom filling and emptying devices for gases liquefied under pressure;

— Part 4: Devices for top filling and emptying of liquid products;

— Part 5: Devices for vapour return while filling or emptying of liquid products;

— Part 6: Manholes;

— Part 7: Platforms and ladders;

— Part 8: Heating connections.

1 Scope

This European Standard specifies positioning of connections, connection dimensions and coupling tightening devices for connections of steam heating installations used on tank wagons.

This standard applies to new tank wagons build after the 1st January 2010.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

TSI Rolling Stock — Freight Wagons

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
heating installation
device heating the tank contents and/or discharge equipment with steam

3.2
steam trap
self contained valve which automatically drains the condensate from a steam containing enclosure while remaining tight to live steam, or if necessary, allowing steam to flow at a controlled or adjusted rate

4 Requirements

The extremities of the heating installation shall be fitted as follows:

— each inlet shall be fitted with a valve PN 16, and a connection according to Clause 6;

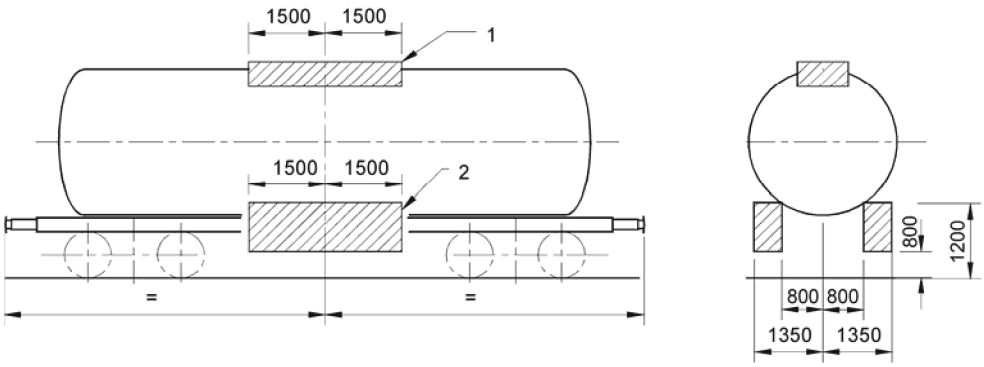
— each outlet shall be fitted with a valve PN 16 or a steam trap.

In order to drain condensate the outlet shall be situated at the lowest point of the steam heating installation. This outlet shall not be obstructed when the outlet valve is open. It shall be directed to the ground in such a way as not to present a danger to personnel or damage on brake parts or to other wagon equipment.

5 Positioning of connections

Except agreement between customer and manufacturer, the connections shall be positioned entirely within the areas shown in Figure 1.

Dimensions in millimetres



Key

1 Where tank wagons are fitted with top connections, they shall be positioned within this area

2 Where tank wagons are fitted with bottom connections, they shall be positioned on both sides within this area

Figure 1 — Positioning of connections

The steam connections shall not infringe the loading gauge.

Spaces for connections may need to be different for domestic traffic in Great Britain (see Technical Specification for Interoperability for Freight Wagons).

6 Connection

6.1 Dimensions

Except for other types of connections agreed between the customer and the manufacturer, the dimensions of the connection shall be as shown in Figure 2.

Dimensions in millimetres

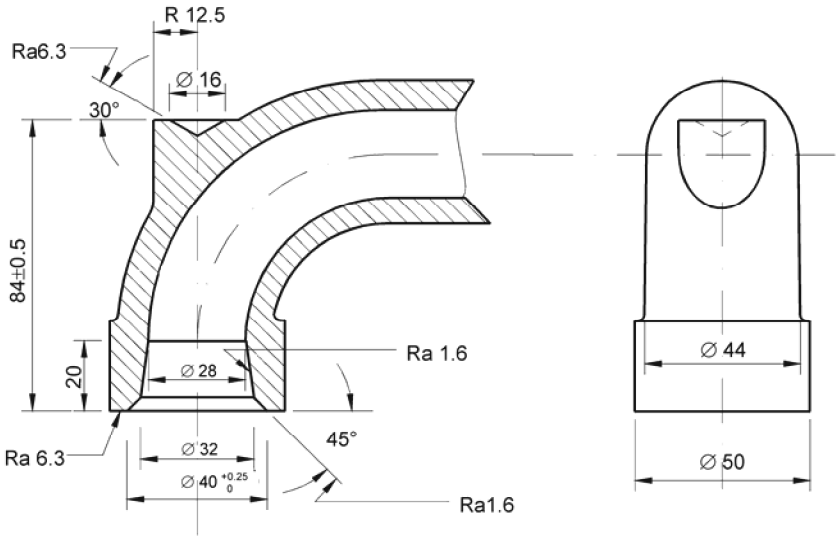


Figure 2 — Dimensions of connections

6.2 Tightening device

The connection to the steam supply pipe shall be made in a leaktight manner. An example of a tightening device is shown in Figure 3.

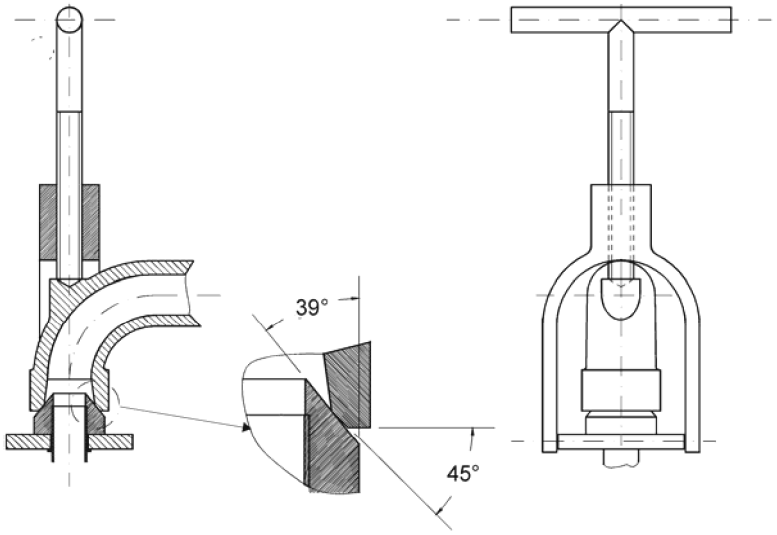


Figure 3 — Example of tightening device

6.3 Test pressure of connections

The test pressure of the connections shall be at least equal to the test pressure of the steam heating installation.