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Standards

Irish Standard  
I.S. EN 14420-6:2013

# Hose fittings with clamp units - Part 6: TW tank truck couplings

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## I.S. EN 14420-6:2013

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English Version

**Hose fittings with clamp units - Part 6: TW tank truck couplings**

Raccords pour flexibles avec demi-coquille - Partie 6:  
Raccords TW pour camion-citerne

Schlaucharmaturen mit Klemmfassungen - Teil 6: TW  
Tankwagen-Kupplungen

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## Foreword

This document (EN 14420-6:2013) has been prepared by Technical Committee CEN/TC 218 "Rubber and plastics hoses and hose assemblies", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2014, and conflicting national standards shall be withdrawn at the latest by January 2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 14420-6:2004+A1:2007.

In comparison to EN 14420-6:2004+A1:2007, the following changes have been made:

- In Clause 1, the warning paragraph has been revised.
- In Clause 2, the normative references have been updated.
- A new Clause 3 "Terms and definitions" has been added.
- The term "sealing ring" has been replaced by "gasket" (main gasket/thread gasket).
- Clause 4 "Survey" has been renamed "Fitting combinations".
- In 5.2.2.3, the body designation of a male coupling (DN 100) has been changed.
- In 5.4.2.3, the designation of a dust cap has been changed.
- In 5.5.2.3, the designation of a dust plug has been changed.
- The requirements on thread gasket materials in 6.4 and main gasket materials in 6.6 have been revised.
- In Clause 9, the requirements for marking have been reviewed.
- Content of Clause 10 "Type testing and quality control" has been replaced by a reference to EN 14420-1.
- The standard has been revised editorially.

EN 14420, *Hose fittings with clamp units* consists of the following parts:

- *Part 1: Requirements, types of fixing and connection, designation and testing*
- *Part 2: Hose side parts of hose tail*
- *Part 3: Clamp units, bolted or pinned*
- *Part 4: Flange connections*
- *Part 5: Threaded connections*

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- *Part 6: TW tank truck couplings*
- *Part 7: Cam locking couplings*
- *Part 8: Symmetrical half couplings (Guillemin system)*

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## 1 Scope

This European Standard specifies the fitting combinations, design, materials and dimensions for hose fittings with couplings for tank trucks (TW couplings).

Couplings for tank trucks in accordance with this document are intended to link hoses with connections for the transport of liquids, solid matters and gases with the exception of liquid gas and steam. They can be employed in a working pressure range of  $-0,8 \text{ bar}^{1)}$  up to 16 bar at working temperatures of  $-20 \text{ °C}$  up to  $+65 \text{ °C}$ . Couplings for tank trucks for other operating conditions are subject to agreement.

**WARNING — Male and female dust couplings are pressure resistant plugs. They do not fulfil the function of a locking device, which should be installed in any case as long as the hose assembly is under pressure.**

## 2 Normative references

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

EN 586-2, *Aluminium and aluminium alloys — Forgings — Part 2: Mechanical properties and additional property requirements*

EN 10083-2, *Steels for quenching and tempering — Part 2: Technical delivery conditions for non alloy steels*

EN 10088-1, *Stainless steels — Part 1: List of stainless steels*

EN 10213, *Steel castings for pressure purposes*

EN 12420, *Copper and copper alloy — Forgings*

EN 14420-1:2013, *Hose fittings with clamp units — Part 1: Requirements, types of fixing and connection, designation and testing*

EN 14420-2, *Hose fittings with clamp units — Part 2: Hose side parts of hose tail*

EN 14420-3, *Hose fittings with clamp units — Part 3: Clamp units, bolted or pinned*

EN 14420-5: 2013, *Hose fittings with clamp units — Part 5: Threaded connections*

EN 22768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications (ISO 2768-1)*

EN 22768-2, *General tolerances — Part 2: Geometrical tolerances for features without individual tolerance indications (ISO 2768-2)*

EN ISO 4042, *Fasteners — Electroplated coatings (ISO 4042)*

EN ISO 8330:2008, *Rubber and plastics hoses and hose assemblies — Vocabulary (ISO 8330:2007)*

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1) 1 bar = 0,1 MPa.

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