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de l'accréditation, de la sécurité et qualité
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ILNAS-EN 14601:2005+A2:2021

Railway applications - Straight and angled end cocks for brake pipe and main reservoir pipe

Applications ferroviaires - Robinets
d'arrêt droit ou coudé pour conduite
générale de frein et conduite principale

Bahnanwendungen - Gerade und
abgewinkelte Luftabsperrhähne für die
Hauptluftleitung und
Hauptbehälterleitung

12/2021



National Foreword

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EUROPEAN STANDARD **EN 14601:2005+A2**

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Railway applications - Straight and angled end cocks for brake pipe and main reservoir pipe

Applications ferroviaires - Robinets d'arrêt droit ou
coudé pour conduite générale de frein et conduite
principale

Bahnanwendungen - Gerade und abgewinkelte
Luftabsperrhähne für die Hauptluftleitung und
Hauptbehälterleitung

This European Standard was approved by CEN on 30 August 2010 and includes Amendment 2 approved by CEN on 4 October 2021.

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Foreword

This document (EN 14601:2005+A2:2021) has been prepared by Technical Committee CEN/TC 256 “Railway applications”, the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by June 2022, and conflicting national standards shall be withdrawn at the latest by June 2022.

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 includes Amendment 1, approved by CEN on 2010-08-30.

This document includes Amendment 2, approved by CEN on 2021-10-04.

This document supersedes A2 EN 14601:2005+A1:2010 A2.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A2 A2.

A2 Deleted paragraphs A2

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1 Scope

This European Standard is applicable to manually operated end cocks designed to cut-off the brake pipe and the main reservoir pipe of the air brake and compressed air system of rail vehicles; without taking the type of vehicles and track-gauge into consideration.

This European Standard specifies requirements for the design, dimensions, testing and certification (qualification and/or homologation), and marking.

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.

EN 50125-1, *Railway applications — Environmental conditions for equipment — Part 1: Equipment on board rolling stock*

EN 61373, *Railway applications — Rolling stock equipment — Shock and vibration tests (IEC 61373:1999)*

EN ISO 228-2, *Pipe threads where pressure-tight joints are not made on the threads — Part 2: Verification by means of limit gauges (ISO 228-2:1987)*

ISO 5208:1993, *Industrial valves — Pressure testing of valves*

ISO 8573-1:2001, *Compressed air — Part 1: Contaminants and purity classes*

ISO 9227:1990, *Corrosion tests in artificial atmospheres — Salt spray tests*

3 Terms and definitions

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

3.1

end cock

two position, three way cock, with no piped vent and, with a rotary spindle moved by the operating handle

3.2 Components

3.2.1

port

terminus of a fluid passage in a component (to which may be connected pipelines) for the transmission of fluid to, or from the component

3.2.1.1

venting port

port which provides passage to atmosphere

3.2.1.2

outlet port

port which is vented to atmosphere when the cock is closed

3.2.1.3

inlet port

port which is not vented when the cock is closed

3.2.1.4

threaded port

port arranged to accept screw threaded connection

3.2.2

direction of rotation

direction of rotation quoted as viewed looking at the handle side

NOTE In case of doubt a sketch should be provided.

3.2.3

mechanical detent

spring arrangement to retain moving parts in open or closed position and only able to be moved to another position with the specified force

3.2.4

latch

mechanical device to retain moving parts in open or closed position which can only be moved when the latch is released

3.3 Types of end cocks

3.3.1 Design

3.3.1.1

straight end cock

cock with axis of inlet and outlet ports in line

NOTE See Figure 1.