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Railway applications - Braking - Relay valves

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

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English Version

Railway applications - Braking - Relay valves

Applications ferroviaires - Freinage - Relais pneumatiques

 $Bahnan wendungen \hbox{ - Bremse - Relaisventile} \\$

This European Standard was approved by CEN on 13 January 2020.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 15611:2020) 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of an identical text or by endorsement, at the latest by October 2020, and conflicting national standards shall be withdrawn at the latest by October 2020.

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

This document supersedes EN 15611:2008+A1:2010.

Compared to the previous edition, the following changes have been made:

- a) normative references have been updated;
- b) terms and definitions have been revised;
- c) requirements on design have been revised;
- d) requirements on materials have been revised;
- e) requirements on type testing have been revised;
- f) requirements on in-service assessment have been revised
- g) requirements on markings have been revised;
- h) annexes have been revised.

This document has been prepared under a standardization request given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive 2008/57/EC.

For relationship with EU Directive 2008/57/EC, see informative Annex ZA, which is an integral part of this document.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This document is applicable to relay valves designated to control the brake cylinder pressure of compressed air brakes fitted to railway vehicles, in association with an air brake distributor valve or other control device. It covers one stage relay valves and relay valves adjusting the brake cylinder pressure in response to a change in vehicle speed or load that is either continuously variable or in two or more stages, i.e. empty – loaded.

Relay valves operating with other pressures, in particular the brake pipe pressure, are not included.

This document specifies the requirements for the design, manufacture and testing of relay valves.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 14478:2017, Railway applications — Braking — Generic vocabulary

EN 15355:2019, Railway applications — Braking — Distributor valves and distributor-isolating devices

EN 15625:2008+A1:2010, Railway applications — Braking — Automatic variable load sensing devices

EN 45545-1:2013, Railway applications — Fire protection on railway vehicles — Part 1: General

EN 45545-2:2013+A1:2015, Railway applications — Fire protection on railway vehicles — Part 2: Requirements for fire behaviour of materials and components

EN 50125-1:2014, Railway applications — Environmental conditions for equipment — Part 1: Rolling stock and on-board equipment

EN 60721-3-5:1997, Classification of environmental conditions — Part 3: Classification of groups of environmental parameters and their severities — Section 5: Ground vehicle installations (IEC 60721-3-5:1997)

EN 61373:2010, Railway applications — Rolling stock equipment — Shock and vibration tests (IEC 61373:2010)

EN ISO 228-1:2003, Pipe threads where pressure-tight joints are not made on the threads—Part 1: Dimensions, tolerances and designation (ISO 228-1:2000)

ISO 8573-1:2010, Compressed air —Part 1: Contaminants and purity classes

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