

SVENSK STANDARD

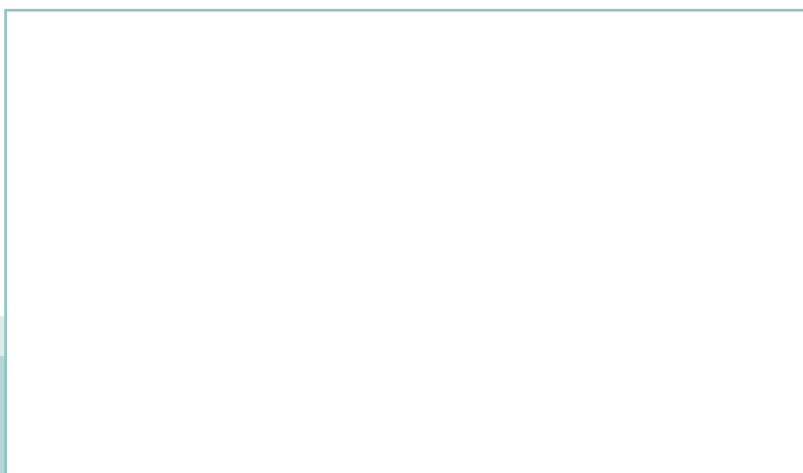
SS-EN 15355:2008+A1:2010



Fastställt/Approved: 2010-10-07
Publicerad/Published: 2010-10-26
Utgåva/Edition: 1
Språk/Language: engelska/English
ICS: 45.060.01

Järnvägar – Bromssystem – Styrventiler och avstängningsanordningar

Railway applications – Braking – Distributor valves and distributor-isolating devices



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Denna standard ersätter SS-EN 15355:2008, utgåva 1.

The European Standard EN 15355:2008+A1:2010 has the status of a Swedish Standard. This document contains the official version of EN 15355:2008+A1:2010.

This standard supersedes the Swedish Standard SS-EN 15355:2008, edition 1.

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EUROPEAN STANDARD

EN 15355:2008+A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2010

ICS 45.060.01

Supersedes EN 15355:2008

English Version

Railway applications - Braking - Distributor valves and distributor-isolating devices

Applications ferroviaires - Freinage - Distributeurs de freinage et robinet d'isolement

Bahnanwendungen - Bremse - Steuerventile und Bremsabsperreinrichtungen

This European Standard was approved by CEN on 24 August 2008 and includes Amendment 1 approved by CEN on 30 August 2010.

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Foreword

This document (EN 15355:2008+A1:2010) 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of an identical text or by endorsement, at the latest by April 2011, and conflicting national standards shall be withdrawn at the latest by April 2011.

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 supersedes EN 15355:2008.

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

A1 This document has been prepared under a mandate given to CEN/CENELEC/ETSI 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. A1

According to the CEN/CENELEC Internal Regulations, the national standards organizations 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This European Standard applies to distributor valves and distributor-isolating devices.

The distributor valves contained in this European Standard are of graduated release type. Direct release types are not included.

Functionally they are regarded as not containing relay valves of any type, even if the relay valves are physically an integral part of the distributor valves.

This European Standard applies to both distributor-isolating devices mounted separate from the distributor valve and distributor-isolating devices integral with the distributor valve.

This European Standard specifies the requirements for the design, testing and quality assurance of distributor valves and distributor-isolating devices.

For interoperable freight wagons, these devices which are operated by compressed air according to EN 14198 are assessed according to the respective technical specification of interoperability.

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 14198, *Railway applications — Braking — Requirements for the brake system of trains hauled by a locomotive*

EN 14478:2005, *Railway applications — Braking — Generic vocabulary*

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

EN ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025:2005)*

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

3 Symbols, and abbreviations, terms and definitions

For the purposes of this document, the terms and definitions given in EN 14478:2005 and the following symbols, abbreviations, terms and definitions apply.

3.1 Symbols

t time

p pressure

3.2 Abbreviations

P Braking mode “passenger”

G Braking mode “goods” (freight)

3.3 Terms and definitions

3.3.1

general

some of the curves in this clause are simplified, not showing the real pressure development. This is considered to be sufficient for the purpose of this clause

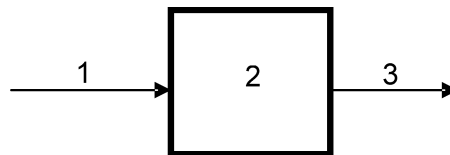
3.3.2

distributor valve

apparatus to control a pneumatic output pressure as an inverse function of the variation of an input pressure as the main function

NOTE 1 See Figure 1 and Figure 2.

NOTE 2 For the purpose of this European Standard, input pressure is considered to be the brake pipe pressure and output pressure is considered to be the brake cylinder pressure or the pilot pressure, which controls the brake cylinder pressure via a relay valve.



Key

- 1 input pressure
- 2 distributor valve
- 3 output pressure

Figure 1 — Distributor valve – Main function, block diagram