



Institut luxembourgeois de la normalisation  
de l'accréditation, de la sécurité et qualité  
des produits et services

## ILNAS-EN 14601:2005

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

Bahnanwendungen - Gerade und  
abgewinkelte Luftabsperrhähne für die  
Hauptluftleitung und  
Hauptbehälterleitung

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

05/2005



## National Foreword

This European Standard EN 14601:2005 was adopted as Luxembourgish Standard ILNAS-EN 14601:2005.

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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  
Absperrhähne für die Bremsleitung und  
Hauptluftbehälterleitung

This European Standard was approved by CEN on 24 March 2005.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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## Foreword

This document (EN 14601:2005) 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of an identical text or by endorsement, at the latest by November 2005, and conflicting national standards shall be withdrawn at the latest by November 2005.

This European Standard 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 Directives 96/48 and 2001/16.

For relationship with EU Directive(s), see informative Annexes ZA and ZB, which are an integral part of this document.

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

## 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 purpose of this European Standard, 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.

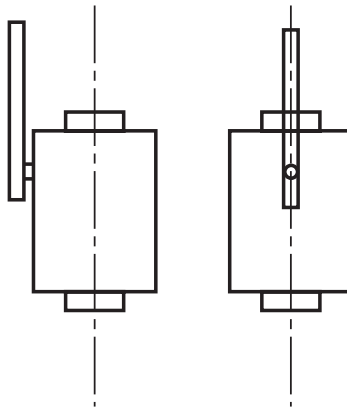


Figure 1 — Straight end cock