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BS EN 1487:2014



BSI Standards Publication

Building valves — Hydraulic safety groups — Tests and requirements

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This British Standard is the UK implementation of EN 1487:2014. It supersedes BS EN 1487:2000 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/504, Water supply.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Building valves - Hydraulic safety groups - Tests and requirements

Robinetterie de bâtiment - Groupes de sécurité hydraulique
- Essais et exigences

Gebäudearmaturen - Hydraulische Sicherheitsgruppen -
Prüfungen und Anforderungen

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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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 1487:2014) has been prepared by Technical Committee CEN/TC 164 "Water Supply", the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by January 2015, and conflicting national standards shall be withdrawn at the latest by January 2015.

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 1487:2000.

The main changes compared to EN 1487:2000 are as follows:

- a) the Scope has been modified to nominal sizes DN 15 to DN 25;
- b) Normative references were updated;
- c) Terms and definitions were changed;
- d) subclause 4.1 (general wording for materials) was modified;
- e) subclauses 4.3 (Detection of residual stress), 4.4 (Outside visible surfaces), 4.5 (Corrosion resistance), 4.6 (Coating adherence) and 4.7 (Compatibility with the products used for disinfection of the networks) were added;
- f) subclauses 5.2 (Dimensional characteristics), 5.3 (Test port) and 5.4 (Pressure tapping) were modified;
- g) subclause 5.7 (Other threads) was deleted;
- h) subclauses 5.8 (Replacing of the safety valve) and 5.9 (Check valve) were added;
- i) Clause 6 (Apparatus) was added, thus renumbering of the following clauses was necessary;
- j) Clause 7 (Hydraulic tests and requirements) was modified;
- k) Clause 8 (Acoustic tests and requirements) was moved to Clause 11 and modified editorially;
- l) Clause 9 (Tests and requirements of the components of the hydraulic safety group) was modified;
- m) Clause 10 (Resistance to thermal shocks) was added;
- n) Clause 12 (Classification) was modified;
- o) Clause 13 (Designation) was modified editorially;
- p) Clause 15 (Technical documents, presentation at delivery) was added;
- q) informative Annex A was replaced by informative Annex A (Test sequences).

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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, 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.

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Introduction

In respect of potential adverse effect on the quality of water intended for human consumption, caused by the product covered by this standard:

- a) This standard provides no information as to whether the product may be used without restriction in any of the Member States of the EU or EFTA.
- b) It should be noted that, whilst awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and or the characteristics of this product remain in force.

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1 Scope

This European Standard specifies dimensions, materials and performance requirements (including methods of test) for hydraulic safety groups, of nominal sizes from DN 15 to DN 25, having working pressures¹⁾ from 0,1 MPa (1 bar) to 0,7 MPa (7 bar). Hydraulic safety groups are intended for fitting to the potable water supply of storage water heaters, having a maximum storage temperature of 95°C.

Hydraulic safety groups limit the pressure in hot water heaters, prevent the backflow of water into the main circuit and prevent the discharged water to get into contact with the water in the water heater.

Hydraulic safety groups do not control the temperature. They ensure the hydraulic safety of water heaters if the mechanical resistance of the water heater remains at least equal to the rating pressure.

NOTE The use of the device specified in this European Standard does not override the need to use controls (e.g. thermostats and cut-outs) which act directly on the power sources of water heaters.

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 248:2002, *Sanitary tapware - General specification for electrodeposited coatings of Ni-Cr*

EN 806-1, *Specifications for installations inside buildings conveying water for human consumption - Part 1: General*

EN 806-2, *Specification for installations inside buildings conveying water for human consumption - Part 2: Design*

EN 806-3, *Specifications for installations inside buildings conveying water for human consumption - Part 3: Pipe sizing - Simplified method*

EN 806-4, *Specifications for installations inside buildings conveying water for human consumption - Part 4: Installation*

EN 806-5, *Specifications for installations inside buildings conveying water for human consumption - Part 5: Operation and maintenance*

EN 1488, *Building valves - Expansion groups - Tests and requirements*

EN 1567, *Building valves - Water pressure reducing valves and combination water pressure reducing valves - Requirements and tests*

EN 1717:2000, *Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution by backflow*

EN 10226-1, *Pipe threads where pressure tight joints are made on the threads - Part 1: Taper external threads and parallel internal threads - Dimensions, tolerances and designation*

EN 13959, *Anti-pollution check valves - DN 6 to DN 250 inclusive family E, type A, B, C and D*

¹⁾ All pressures are gauge unless otherwise stated.