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STN	**Armatúry v budovách Ručne ovládané guľové uzávery zo zliatin medi a nehrdzavejúcej ocele pre zásobovanie vodou v budovách Skúšky a požiadavky**	**STN EN 13828 13 5805**

Building valves - Manually operated copper alloy and stainless steel ball valves for potable water supply in buildings - Tests and requirements

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

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/25

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English Version

Building valves - Manually operated copper alloy and stainless steel ball valves for potable water supply in buildings - Tests and requirements

Robinetterie de bâtiment - Robinets d'arrêt à tournant sphérique actionnés à la main en alliage de cuivre et en acier inoxydable pour la distribution d'eau potable dans les bâtiments - Essais et exigences

Gebäudearmaturen - Handbetätigte Kugelhähne aus Kupferlegierungen und nichtrostenden Stählen für Trinkwasseranlagen in Gebäuden - Prüfungen und Anforderungen

This European Standard was approved by CEN on 20 January 2025.

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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 13828:2025) 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of an identical text or by endorsement, at the latest by August 2025, and conflicting national standards shall be withdrawn at the latest by August 2025.

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 will supersede EN 13828:2003.

EN 13828:2025 includes the following significant technical changes with respect to EN 13828:2003:

— Scope has been revised;

— Tables 1, 2 and 4 were revised;

— Clause 2 has been updated;

— end connections were extended;

— full bore and half bore sizes were adapted;

— design requirements updated;

— test methods updated;

— marking updated.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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, Türkiye and the United Kingdom.

Introduction

With respect to potential adverse effects on the quality of water intended for human consumption, caused by the product covered by this document:

— This document provides no information as to whether the product may be used without restriction in any of the member states of the EU or EFTA;

— It should be noted that, while awaiting the adoption of the verifiable European criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

— The requirements with regard to the drinking water quality are specified in national regulations.

1 Scope

This document applies primarily to copper alloy and stainless steel ball valves with dimensions DN 6 to DN 100, for installations in buildings for potable water supply up to PN16 and a maximum distribution temperature of 65 °C. Occasional excursions up to 90 °C are permitted for a period of 1 h maximum.

The ball valves are classified by their nominal pressure being either PN10 or PN16.

This document specifies:

— the requirements of the materials and the design of ball valves;

— the mechanical, hydraulic and acoustic requirements of ball valves;

— the test methods to verify the requirements of ball valves;

— the marking requirements of ball 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 248, *Sanitary tapware - General specification for electrodeposited coatings of Ni-Cr*

EN 1254-2, *Copper and copper alloys - Plumbing fittings - Part 2: Compression fittings for use with copper tubes*

EN 1254-3, *Copper and copper alloys - Plumbing fittings - Part 3: Compression fittings for use with plastics and multilayer pipes*

EN 1254-4, *Copper and copper alloys - Plumbing fittings - Part 4: Threaded fittings*

EN 1254-6, *Copper and copper alloys - Plumbing fittings - Part 6: Push-fit fittings for use with metallic tubes, plastics and multilayer pipes*

EN 1254-7, *Copper and copper alloys - Plumbing fittings - Part 7: Press fittings for use with metallic tubes*

EN 1254-8, *Copper and copper alloys - Plumbing fittings - Part 8: Press fittings for use with plastics and multilayer pipes*

EN 1254-20, *Copper and copper alloys - Plumbing fittings - Part 20: Definitions, thread dimensions, test methods, reference data and supporting information*

EN ISO 3822-1, *Acoustics - Laboratory tests on noise emission from appliances and equipment used in water supply installations - Part 1: Method of measurement (ISO 3822-1)*

EN ISO 3822-3, *Acoustics - Laboratory tests on noise emission from appliances and equipment used in water supply installations - Part 3: Mounting and operating conditions for in-line valves and appliances (ISO 3822-3)*

EN ISO 5211, *Industrial valves - Part-turn actuator attachments (ISO 5211)*

EN ISO 6509-1, *Corrosion of metals and alloys - Determination of dezincification resistance of copper alloys with zinc — Part 1: Test method (ISO 6509-1)*

EN ISO 9227, Corrosion tests in artificial atmospheres - Salt spray tests (ISO 9227)