

<b>STN</b>	<b>Zdravnotechnické armatúry Jednoduché výtokové armatúry a zmiešavacie batérie pre systémy zásobovania vodou typu 1 a typu 2 Všeobecné technické podmienky</b>	<b>STN EN 200</b>  13 7105
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Sanitary tapware - Single taps and combination taps for water supply systems of type 1 and type 2 - General technical specification

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

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## Sanitary tapware - Single taps and combination taps for water supply systems of type 1 and type 2 - General technical specification

Robinetterie sanitaire - Robinets simples et mélangeurs pour les systèmes d'alimentation en eau des types 1 et 2 - Spécifications techniques générales

Sanitärarmaturen - Auslaufventile und Mischbatterien für Wasserversorgungssysteme vom Typ 1 und Typ 2 - Allgemeine technische Spezifikation

This European Standard was approved by CEN on 27 November 2023.

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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN 200:2023 (E)**

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## European foreword

This document (EN 200:2023) 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of an identical text or by endorsement, at the latest by June 2024, and conflicting national standards shall be withdrawn at the latest by June 2024.

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 200:2008.

In comparison with the previous edition, the following technical modifications have been made:

- all test of hydraulic performance, acoustic characteristics and leaktightness were completely revised;
- figures, tables and dimensions were revised;
- normative references were updated;
- editorial changes have been made throughout the entire document.

This document acknowledges the field of application of tapware used in:

- water supply systems of Type 1 (see Figure 1 and Table 1) with a pressure range of 0,05 MPa (0,5 bar) to 1,0 MPa (10 bar);
- water supply systems of Type 2 (see Figure 2 and Table 1) with a pressure range of 0,01 MPa (0,1 bar) to 1,0 MPa (10 bar) – which combines mains-fed and cistern-fed water supply systems.

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.



**EN 200:2023 (E)****Introduction**

In respect of 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 can 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 verifiable European criteria, existing national regulations concerning the use and/or the characteristics of these products remain in force.

This document identifies characteristics and technical requirements for single and combination taps.

## 1 Scope

This document specifies:

- a) the field of application for pillar taps, bib taps, single and multi-hole combination taps for use in:
- 1) a supply system of Type 1 (see Figure 1) with a pressure range of (0,05 to 1,0) MPa [(0,5 to 10) bar];
  - 2) a supply system of Type 2 (see Figure 2) with a pressure range of (0,01 to 1,0) MPa [(0,1 to 10) bar];
- b) the dimensional, leak tightness, pressure resistance, hydraulic performance, mechanical strength, endurance, corrosion resistance of the surface of the product, sequence of testing and acoustic characteristics with which sanitary tapware products including their components (flexible hose, pullout spray) need to comply where applicable;
- c) test methods to verify the characteristics.

The tests described in this document are type tests (laboratory tests) and not quality control or factory production control (FPC) tests carried out during manufacture.

This document is applicable to draw-off taps (single taps and combination taps) for use with sanitary appliances installed in rooms used for personal hygiene (cloakrooms, bathrooms etc.) and for food preparation (kitchens), i.e. for use with baths, basins, bidets, showers and sinks.

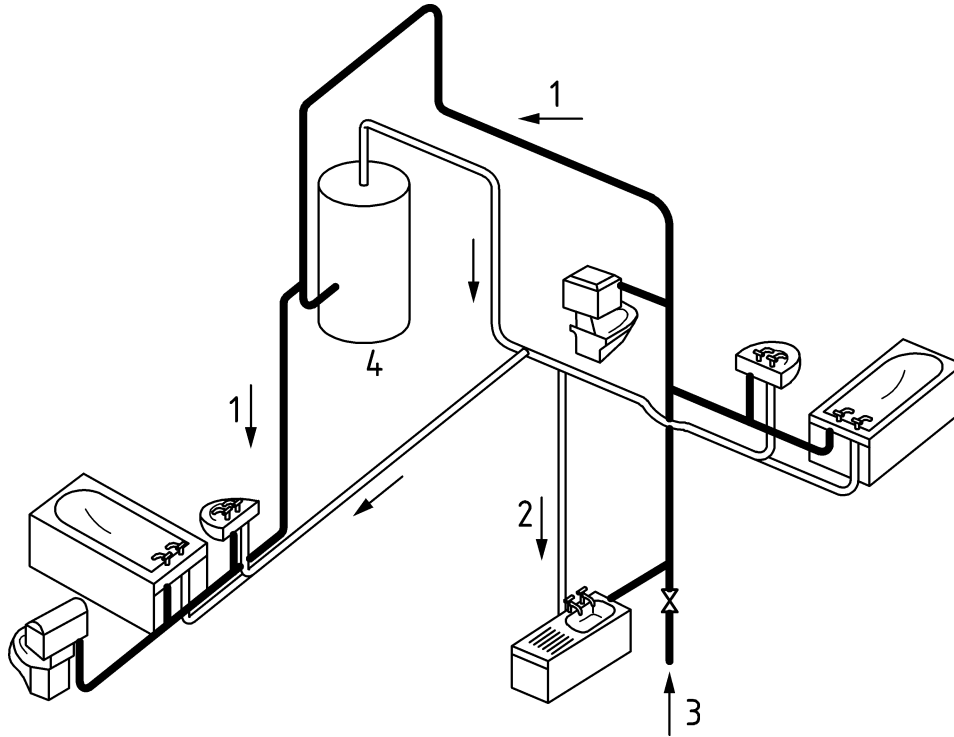
This document applies to sanitary draw-off taps of nominal size 3/8", 1/2", 3/4" and 1" (PN 10).

The conditions of use and classifications are given in Table 1.

**Table 1 — Conditions of use**

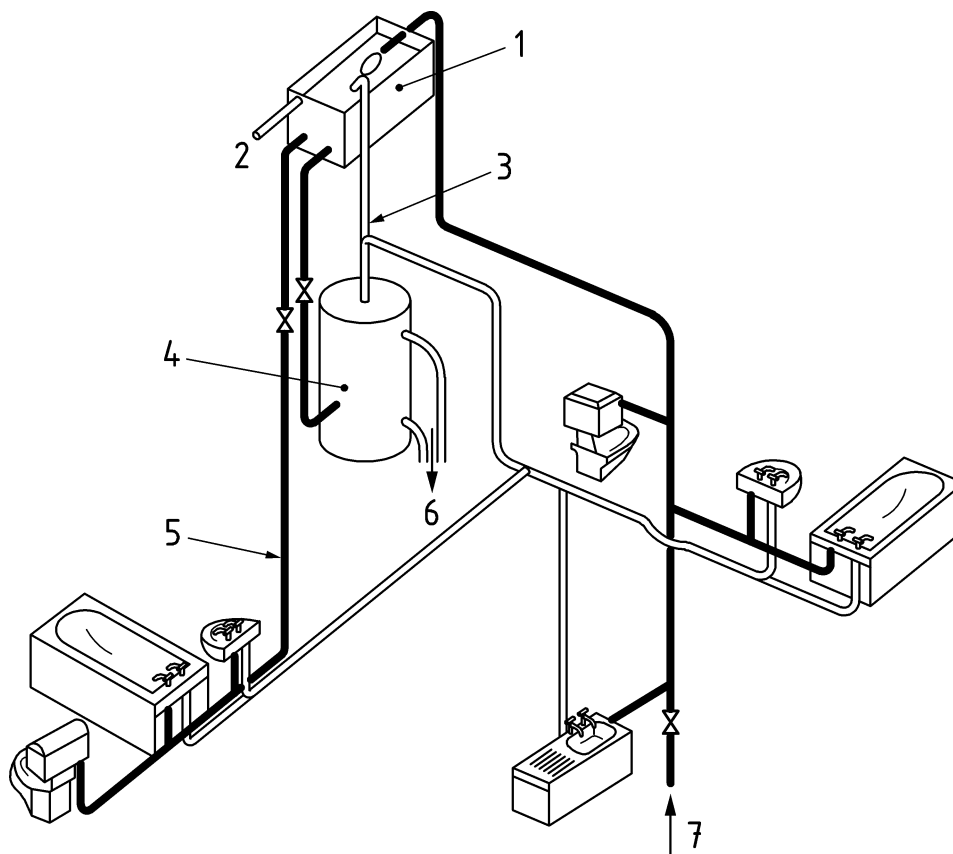
Water supply system	Operating range of taps	
	Limits	Recommended
Type 1 see Figure 1	<u>Dynamic Pressure</u> $\geq 0,05$ MPa (0,5 bar) <u>Static Pressure</u> $\leq 1,0$ MPa (10,0 bar)	<u>Dynamic Pressure</u> (0,1 to 0,5) MPa [(1,0 to 5,0) bar]
Type 2 see Figure 2	<u>Dynamic Pressure</u> $\geq 0,01$ MPa (0,1 bar) <u>Static Pressure</u> $\leq 1,0$ MPa (10,0 bar)	<u>Dynamic Pressure</u> <sup>a</sup> (0,02 to 0,1) MPa [(0,2 to 1,0) bar]
Temperature	$\leq 70$ °C	$\leq 65$ °C

<sup>a</sup> Low pressure sanitary tapware complying with this standard may also be used with inlet supply pressures in the range from 0,1 MPa to 0,2 MPa (1,0 bar to 2,0 bar) on condition that acoustic performance is not a requirement of the installation.

**EN 200:2023 (E)****Key**

- 1 cold water
- 2 hot water
- 3 mains supply pipe (supply pressures up to 10 bar)
- 4 water heater

**Figure 1 — Supply system of Type 1 with a pressure range of (0,05 to 1,0) MPa [(0,5 to 10) bar]**

**Key**

- 1 cold water storage cistern (cover omitted for clarity)
- 2 warning pipe
- 3 vent pipe
- 4 hot water cylinder
- 5 alternative cistern fed cold supply to sanitary appliances
- 6 to boiler
- 7 mains supply pipe (supply pressures up to 10 bar)

**Figure 2 — Supply system of Type 2 with a pressure range of (0,01 to 1,0) MPa [(0,1 to 10) bar]**

NOTE Components which are part or can be delivered with sanitary tapware products are listed in Annex C.

Final materials included in the product are not covered by this document.

## 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 246, *Sanitary tapware — General specifications for aerators*

EN 248, *Sanitary tapware — General specification for electrodeposited coatings of Ni-Cr*

EN 1057, *Copper and copper alloys — Seamless, round copper tubes for water and gas in sanitary and heating applications*

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

EN 13618, *Flexible hose assemblies in drinking water installations — Functional requirements and test methods*

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

EN 14506, *Devices to prevent pollution by backflow of potable water — Automatic diverter — Family H, type C*

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

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 3822-2, *Acoustics — Laboratory tests on noise emission from appliances and equipment used in water supply installations — Part 2: Mounting and operating conditions for draw-off taps and mixing valves (ISO 3822-2)*

EN ISO 3822-4, *Acoustics — Laboratory tests on noise emission from appliances and equipment used in water supply installations — Part 4: Mounting and operating conditions for special appliances*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**