

<b>STN</b>	<b>Zdravotnotechnické armatúry Automaticky ovládané batérie PN 10</b>	<b>STN EN 816</b>  13 7103
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Sanitary tapware - Automatic shut-off valves PN 10

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. 01/18

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Podľa zákona č. 264/1999 Z. z. o technických požiadavkách na výrobky a o posudzovaní zhody a o zmene a doplnení niektorých zákonov v znení neskorších predpisov sa slovenská technická norma a časti slovenskej technickej normy môžu rozmnožovať alebo rozširovať len so súhlasom slovenského národného normalizačného orgánu.



EUROPEAN STANDARD

**EN 816**

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 816:1996

English Version

**Sanitary tapware - Automatic shut-off valves PN 10**Robinetterie sanitaire - Robinets à fermeture  
automatique PN 10

Sanitärarmaturen - Selbstschlussarmaturen PN 10

This European Standard was approved by CEN on 24 April 2017.

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## European foreword

This document (EN 816:2017) 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of an identical text or by endorsement, at the latest by February 2018, and conflicting national standards shall be withdrawn at the latest by February 2018.

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 816:1996.

The main changes compares to the previous edition are:

- 1) water saving criteria were introduced;
- 2) the entire structure of the standard was revised;
- 3) normative references have been updated;
- 4) editorial changes and have been made throughout the entire document;
- 5) figures were redrawn.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## **Introduction**

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

- 1) 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;
- 2) it should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

## 1 Scope

This European Standard is applicable to single and mixer taps with automatic shut-off for use with sanitary appliances installed in washrooms.

It does not apply to urinal or WC flushing valves or valves which open automatically.

The purpose of this standard is to specify the marking, identification, chemical/hygiene, dimensional, leaktightness, pressure resistance, hydraulic, mechanical endurance, and acoustical characteristics of automatic shut-off tapware.

The tests described in all the standard are type tests (laboratory tests) and not quality control tests carried out during manufacture

The conditions of pressure and temperature given in Table 1 apply:

**Table 1 — Conditions for the use of self-closing tapware**

(The pressures given are flow pressures)

	<b>Limits of use</b>	<b>Recommended limits of operation</b>
Dynamic pressure	0,05 MPa (0,5 bar) min.	0,1 MPa $\leq P \leq$ 0,5 Mpa (1 bar $\leq P \leq$ 5 bar)
Static pressure	1 MPa (10 bar) max	-
Hot water temperature	Max $\leq$ 90 °C	55 °C $\leq T \leq$ 65 °C
Cold water temperature	-	T $\leq$ 25 °C

## 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 246, *Sanitary tapware - General specifications for flow rate regulators*

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

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 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 3822-4:1997, *Acoustics - Laboratory tests on noise emission from appliances and equipment used in water supply installations - Part 4: Mounting and operating conditions for special appliances (ISO 3822-4:1997)*

EN ISO 5167 (all parts), *Measurement of fluid flow by means of orifice plates, nozzles and venturi tubes inserted in circular cross section conduits running full (ISO 5167)*

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