

**Sanitaartehtnilised kraanitarvikud.
Automaatsed sulgemiskraanid PN 10**

Sanitary tapware - Automatic shut-off valves PN 10

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 816:2000 sisaldab Euroopa standardi EN 816:1996 ingliskeelset teksti.	This Estonian standard EVS-EN 816:2000 consists of the English text of the European standard EN 816:1996.
Käesolev dokument on jõustatud 11.01.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 11.01.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

Käsitlusala: Käesolev Euroopa standard kehtib automaatselt sulguvate lihtkraanide ja segistiga kraanide kohta, mida kasutatakse pesuruumidesse paigaldatud sanitaartehtnilistes seadistes. Standard ei kehti pissuaaride, WC loputuskraanide ega automaatselt avanevate kraanide kohta. Käesoleva standardi eesmärk on määrata kindlaks automaatsete sulgemiskraanide märgistus, tähistus, keemilised/hügieenilised, dimensionaalsed parameetrid, lekkekindlus, survekindlus, hüdraulilised parameetrid, mehaaniline väsimustugevus ja akustilised omadused.	Scope: Käesolev Euroopa standard kehtib automaatselt sulguvate lihtkraanide ja segistiga kraanide kohta, mida kasutatakse pesuruumidesse paigaldatud sanitaartehtnilistes seadistes. Standard ei kehti pissuaaride, WC loputuskraanide ega automaatselt avanevate kraanide kohta. Käesoleva standardi eesmärk on määrata kindlaks automaatsete sulgemiskraanide märgistus, tähistus, keemilised/hügieenilised, dimensionaalsed parameetrid, lekkekindlus, survekindlus, hüdraulilised parameetrid, mehaaniline väsimustugevus ja akustilised omadused.
--	--

ICS 91.140.70

Võtmesõnad: akustilised omadused, füüsikalised-keemilised omadused, hüdraulilised omadused, kraanid, kulumiskindlus, lekkekindlus, mõõtmed, märgistus, sanitaartehtnilised kraanid, segamisventiilid, survekindlus, tähistus, väsimustestid

ICS 23.060.01; 91.140.70

Descriptors: Sanitary tapware, valves, shutoff valves.

English version

Sanitary tapware
Automatic shut-off valves PN 10

Robinetterie sanitaire – Robinets à
fermeture automatique PN 10

Sanitärarmaturen – Selbstschluß-
armaturen PN 10

This European Standard was approved by CEN on 1996-08-11.

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.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Contents

Foreword	2
0 Introduction	3
1 Scope	3
2 Normative references	3
3 Definition	4
4 Designation	4
5 Marking - Identification	5
6 Materials	5
7 Protection against pollution	5
8 Dimensional characteristics	6
9 Leaktightness characteristics	16
10 Pressure resistance characteristics	21
11 Hydraulic characteristics	22
12 Mechanical properties - Operating force	31
13 Mechanical endurance or wear resistance characteristics	31
14 Acoustic characteristics	34
Annex A (normative) Pressure take off tees	36
Annex B (informative) Acoustic classification (example)	38

Foreword

This European Standard 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 March 1997, and conflicting national standards shall be withdrawn at the latest by March 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

0 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 following conditions of pressure and temperature apply :

**Table 1 : Conditions for the use of self closing tapware
(The pressures given are flow pressures)**

	Limits of use	Recommended limits of operation
Minimum dynamic pressure	0,05 MPa (0,5 bar)	$0,1 \text{ MPa} \leq P \leq 0,5 \text{ MPa}$ (1 bar $\leq P \leq 5$ bar)
Maximum static pressure	1 MPa (10 bar)	—
Temperature	Max $\leq 90 \text{ }^{\circ}\text{C}$	Max $\leq 65 \text{ }^{\circ}\text{C}$

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 31	1977	Pedestal wash basins - Connecting dimensions
EN 32	1977	Wall hung wash basins - Connecting dimensions
EN 111	1984	Wall hung hand rinse basins - Connecting dimensions

EN 200	1989	Sanitary tapware : General technical specifications for single and mixer taps (nominal size 1/2) PN 10 minimum flow pressure 0.05 MPa (0,5 bar)
EN 246	1989	Sanitary tapware : General specifications for flow rate regulators
EN 248	1989	Sanitary tapware : General technical specification for electro-deposited nickel-chrome coatings
prEN 817		Sanitary tapware - Mechanical mixers (PN 10) - General technical specifications
prEN 1717		Protection against pollution of potable water in internal systems and general requirements for protective devices to prevent pollution by backflow
prEN ISO 3822-1		Acoustics - Laboratory tests on noise emission from appliances and equipment used in water supply installations - Part 1 : Method of measurement (ISO/DIS 3822-1:1995)
EN ISO 3822-2	1995	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 3822-2:1995)
prEN ISO 3822-4	1995	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 228-1	1994	Pipe threads where pressure - Tight joints are not made on the threads - Part 1 : Designation dimensions and tolerances
ISO 5167	1991	Measurement of fluid flow by means of orifice plates, nozzles and venturi tubes inserted in circular cross section conduits running full

3 Definition

For the purposes of this European Standard, the following definition applies :

Automatic shut-off tapware: tapware in which opening is effected by operation of a device following which shut-off occurs automatically after a certain period.

This period may be adjustable.

4 Designation

An automatic shut-off tap is designated by :

- its type (single or mixer) ;
- its nominal size : 1/2, 3/4, male or female ;
- reference to this standard (EN 816).