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**SANITARY TAPWARE - GENERAL  
SPECIFICATIONS FOR FLOW RATE  
REGULATORS**

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## Sanitary tapware - General specifications for flow rate regulators

Robinetterie sanitaire - Spécifications générales des  
régulateurs de jets

Sanitärarmaturen - Allgemeine Anforderungen an  
Strahlregler

This European Standard was approved by CEN on 16 July 2003.

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 Management Centre 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 Management Centre has the same status as the official versions.

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



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## **Foreword**

This document (EN 246:2003) 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of an identical text or by endorsement, at the latest by February 2004, and conflicting national standards shall be withdrawn at the latest by February 2004.

This document supersedes EN 246:1989.

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

Annex A is normative.

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

**EN 246:2003 (E)****1 Scope**

This European Standard specifies:

- the dimensional, mechanical, hydraulic and acoustic characteristics with which flow rate regulators should comply;
- the procedures for testing these characteristics.

This European Standard is applicable to:

- flow rate regulators intended to be mounted on tapware used with sanitary appliances in toilets, washrooms and kitchens (single taps, combination tap assemblies, mechanical mixing valves, thermostatic mixing valves);
- flow rate regulators used under the following pressure and temperature conditions:

**Table 1 – Conditions for the use of flow rate regulators**

	<b>Limits of use</b>	<b>Recommended limits for correct operation</b>
Dynamic Pressure	$0,05 \text{ MPa} \leq P \leq 0,5 \text{ MPa}$ ( $0,5 \text{ bar} \leq P \leq 5 \text{ bar}$ )	$0,1 \text{ MPa} \leq P \leq 0,5 \text{ MPa}$ ( $1 \text{ bar} \leq P \leq 5 \text{ bar}$ )
Temperature	$\leq 70 \text{ }^{\circ}\text{C}$	$\leq 65 \text{ }^{\circ}\text{C}$

Flow rate regulators can only be connected downstream of the obturator of the tap.

**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 (including amendments).

EN 248, *Sanitary tapware – General specifications for electrodeposited coatings of Ni-Cr.*

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 3822-1:1999).*

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 (ISO 3822-4:1997).*

ISO 49, *Malleable cast iron fittings threaded to ISO 7-1.*

**3 Terms and definitions**

For the purposes of this European Standard, the following terms and definitions apply:

**flow rate regulator**

A device which is fitted on the nozzle outlet of a tap to enable its jet to be regulated

A distinction is made between:

- flow rate regulators without air intake, when operating without aeration of the water;
- flow rate regulators with air intake, when aeration of the water occurs;
- ball joint flow rate regulators, when a flow rate regulator with or without aeration is fitted into a ball joint.

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