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Sanitary tapware - General specifications for aerators

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 246:2021 sisaldab Euroopa standardi EN 246:2021 ingliskeelset teksti.	This Estonian standard EVS-EN 246:2021 consists of the English text of the European standard EN 246:2021.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
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ICS 91.140.70

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English Version

Sanitary tapware - General specifications for aerators

Robinetterie sanitaire - Spécifications générales pour
les aérateurs

Sanitärarmaturen - Allgemeine Anforderungen an
Strahlregler

This European Standard was approved by CEN on 10 October 2021.

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European foreword

This document (EN 246:2021) 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of an identical text or by endorsement, at the latest by May 2022, and conflicting national standards shall be withdrawn at the latest by May 2022.

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 246:2003.

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

- Update to [Table 2](#) (dimensions);
- Update to [Table 3](#) (dimensions);
- Addition of new [Clause 8](#) – Test sequence;
- Addition of new [Clause 11](#) – Performance of aerators with integrated flow regulators.

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.

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1 Scope

This document specifies:

- the dimensional, mechanical, hydraulic and acoustic characteristics with which sanitary tapware aerators (with and without flow regulation) should comply;
- the procedures for testing these characteristics.

This document is applicable to:

- Sanitary tapware aerators intended to be mounted on tapware used with sanitary appliances in toilets, bathrooms and kitchens (e.g. single taps, combination tap assemblies, mechanical mixing valves, thermostatic mixing valves);
- Sanitary tapware aerators used under the following pressure and temperature conditions (see [Table 1](#)).

Table 1 — Conditions for the use of aerators

	Limits of use	Recommended limits for correct operation
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	$\leq 70 \text{ }^\circ\text{C}$	$\leq 65 \text{ }^\circ\text{C}$

NOTE 1 Sanitary tapware aerators can only be connected downstream of the obturator of the sanitary tapware product.

NOTE 2 For the purposes of brevity, sanitary tapware aerators will be detailed only as aerators in the rest of this document.

NOTE 3 The tests described in this document are type tests (laboratory tests) and not quality control tests carried out during manufacture.

NOTE 4 Aerator swivels are to be tested in combination with a specific aerator only and are therefore considered to be sanitary tapware accessories. (Testing of the stand-alone swivels is therefore not covered by the scope of this document. Where swivels are used they are considered to be part of the tapware constructions, e.g. for bidet taps).

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

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

EN 817, *Sanitary tapware - Mechanical mixing valves (PN 10) - General technical specifications*

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