EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

# DRAFT EN 1111:2017

# prA1

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English Version

# Sanitary tapware - Thermostatic mixing valves (PN 10) - General technical specification

Robinetterie sanitaire - Mitigeurs thermostatiques (PN 10) - Spécifications techniques générales

Sanitärarmaturen - Thermostatische Mischer (PN 10) - Allgemeine technische Spezifikation

This draft amendment is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 164.

This draft amendment A1, if approved, will modify the European Standard EN 1111:2017. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

This draft amendment was established by CEN 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 CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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## European foreword

This document (EN 1111:2017/prA1:2021) has been prepared by Technical Committee CEN/TC 164 “Water supply”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

## 1 Modification to Subclause 13.2.2.1

*Replace entire subclause:*

"The measurement is made at the maximum available flow rate going from cold to hot and then from hot to cold. For the measurement a TMV, as supplied, or the outlet pipework, as defined in A.3, is used.

If the TMV is equipped with water saving accessories or aerators not complying with the flow rates specified in EN 246, the flow rate test and acoustic test shall be made with the mixing valve as delivered by the manufacturer.

Single sequential valves shall be adjusted to be able to attain a maximum 44 °C. Starting at full cold (off) slowly adjust to 44 °C and then return to 34 °C.

Other device control systems (e.g. push-buttons, touch screens, etc.) shall be tested by a method that ensures the correlation between outlet temperature and flow rate can be suitably recorded. The procedure is subject to agreement between manufacturer and test laboratory."

*with:*

"The measurement is made at the maximum available flow rate going from cold to hot and then from hot to cold. For the measurement a TMV, as supplied or, for valves without integral atmospheric discharge, with the outlet pipework as defined in A.3 is used.

If the TMV is equipped with water saving accessories or aerators not complying with the dimensions specified in EN 246, the flow rate test and acoustic test shall be made with the mixing valve as delivered by the manufacturer.

Single sequential valves shall be adjusted to be able to attain a maximum 44 °C. Starting at full cold (off) slowly adjust to 44 °C and then return to 34 °C.

Other device control systems (e.g. push-buttons, touch screens, etc.) shall be tested by a method that ensures the correlation between outlet temperature and flow rate can be suitably recorded. The procedure is subject to agreement between manufacturer and test laboratory.".

## 2 Modification to Subclause 13.5.1.3

*Replace entire subclause: "*

a) Starting from full hot determine the reference points in the following sequence: (38 ± 0,5) °C, (36 - 1) °C, (40 - 1)°C

b) apply and maintain the initial settings shown in Table 8 and allow water to flow until the outlet temperature has stabilized;

c) start recording the mixed water temperature versus time;

d) within 1 s adjust the temperature control device to read $\vartheta_{mix}$ = (36 - 1) °C;

e) allow the outlet temperature to stabilize;

f) restore the settings in b);

g) within 1 s adjust the temperature control device to read $\vartheta_{mix}$ = (40 - 1) °C;

h) upon temperature stabilization stop recording mixed water temperature versus time."

*with: "*