

Sanitary tapware — Shower outlets for sanitary tapware for water supply systems of type 1 and type 2 — General technical specification

ICS 23.040.70

National foreword

This British Standard is the UK implementation of EN 1112:2008. It supersedes BS EN 1112:1997 and BS EN 13904:2003, which are withdrawn.

The UK participation in its preparation was entrusted by Technical Committee B/504, Water supply, to Subcommittee B/504/8, Sanitary tapware.

A list of organizations represented on this committee can be obtained on request to its secretary.

WARNING

Attention is drawn to the scope of this standard and the pressures specified under the “Limits” given in Table 1. Care should be taken to ensure that the dynamic pressure given in Table 1 is not exceeded in cases where products covered by this standard are used in connection with devices having a higher limit of use (e.g. mixing valves).

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

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English Version

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supply systems of type 1 and type 2 - General technical
specification

Robinetterie sanitaire - Douches pour robinetterie sanitaire
pour les systèmes d'alimentation en eau de types 1 et 2 -
Spécifications techniques générales

Sanitärarmaturen - Brausen für Sanitärarmaturen für
Wasserversorgungssysteme vom Typ 1 und Typ 2 -
Allgemeine technische Spezifikation

This European Standard was approved by CEN on 12 January 2008.

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Foreword

This document (EN 1112:2008) 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of an identical text or by endorsement, at the latest by August 2008, and conflicting national standards shall be withdrawn at the latest by August 2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1112:1997 and EN 13904:2003

The scope is enlarged to include requirements for shower outlets used with water supply systems of type 1 and type 2. See Tables 1, 3, 4, 5 and 7.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland 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:

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

1 Scope

This European Standard specifies:

- the dimensional, leaktightness, mechanical, hydraulic and acoustic characteristics with which shower outlets shall comply;
- the procedures for testing these characteristics.

This European Standard applies to shower heads and hand showers of any material used for ablutionary purposes and intended for equipping and supplementing sanitary tapware for baths and showers.

This European Standard applies to shower heads and hand showers connected downstream of the obturator of the tapware.

Integral and remote spray attachments incorporated in tapware (e.g. sink and wash basin mixing valves) are not covered by this standard.

Details of pressures and temperatures are given in Table 1.

Table 1 — Conditions of use/Classifications

Water Supply system	Operating range of shower outlets		Flow rate classes		Acoustics	Marking
	Limits	Recommended			See clause 12.0	See clause 6.0
Type 1 see Figure 1	<u>Dynamic Pressure</u> (0,05 to 0,5) MPa (0,5 to 5) bar	<u>Dynamic Pressure</u> (0,1 to 0,3) MPa (1,0 to 3) bar	ZZ	(0,025 ≤ Q < 0,12) l/s (1,5 ≤ Q < 7,2) l/min	Group I	for example I A II B
			Z	(0,12 ≤ Q < 0,20) l/s (7,2 ≤ Q < 12) l/min	Group II	
			A	(0,20 ≤ Q < 0,25) l/s (12 ≤ Q < 15) l/min		
			S	(0,25 ≤ Q < 0,33) l/s (15 ≤ Q < 20) l/min		
			B	(0,33 ≤ Q < 0,42) l/s (20 ≤ Q < 25) l/min		
			C	(0,42 ≤ Q < 0,50) l/s (25 ≤ Q < 30) l/min		
			D	(0,50 ≤ Q < 0,63) l/s (30 ≤ Q < 38) l/min		
Type 2 see Figure 2	<u>Dynamic Pressure</u> (0,01 to 0,2) MPa (0,1 to 2) bar	<u>Dynamic Pressure</u> (0,02 to 0,1) MPa (0,2 to 1) bar	E	(0,06 ≤ Q < 0,14) l/s (3,6 ≤ Q < 8,4) l/min at (0,01) MPa (0,1 bar)	(unclassified)	
			H	(Q ≥ 0,14) l/s (Q ≥ 8,4) l/min at (0,01) MPa (0,1 bar)		
Temperature	T ≤ 70°C	T ≤ 42°C				