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INTERNATIONAL

STANDARD

ISO 3822-2

Second edition
1995-12-15

**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

*Acoustique — Mesurage en laboratoire du bruit émis par les robinetteries et les
équipements hydrauliques utilisés dans les installations de distribution d'eau —*

*Partie 2: Conditions de montage et de fonctionnement des robinets de puisage
et des robinetteries sanitaires*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electro-technical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

The revision of the International Standard ISO 3822-2 was prepared by CEN/TC 126, *Acoustic properties of building products and of buildings*, in strong cooperation with Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 2, *Building acoustics*.

This second edition cancels and replaces the first edition (ISO 3822-2:1984), of which it constitutes a technical revision.

ISO 3822 consists of the following parts, under the general title *Acoustics — Laboratory tests on noise emission from appliances and equipment used in water supply installations*:

- *Part 1: Method of measurement*
- *Part 2: Mounting and operating conditions for draw-off taps and mixing valves*
- *Part 3: Mounting and operating conditions for in-line valves and appliances*
- *Part 4: Mounting and operating conditions for special appliances*

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Introduction

The method of measurement for laboratory tests on noise emission from appliances and equipment used in water supply installations is specified in ISO 3822-1.

This part of ISO 3822 gives detailed descriptions for mounting and operating draw-off taps and mixing valves in such laboratory tests. These taps and mixing valves are for use with cold and/or hot water in buildings (for sinks, wash-basins, baths, etc.) or next to buildings (for example for garden use). Draw-off taps and mixing valves are the most common kind of appliance used in water supply installations.

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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

1 Scope

This part of ISO 3822 specifies the mounting and operating conditions to be used for draw-off taps and mixing valves when measuring noise emission resulting from water flow.

The procedures described are for general use for all types of draw-off taps and mixing valves of conventional design, with a recommended flow pressure range of 0,1 MPa to 0,5 MPa¹⁾.

The mounting and operating conditions apply to draw-off tap and mixing valve assemblies including any inlet or outlet mounting or installation unions, elbows, adaptors, etc., but excluding interchangeable outlet accessories such as aerators, shower hoses, shower heads, flow straighteners, etc. These outlet accessories are replaced by standardized low-noise flow resistances.

When the outlet accessories mentioned above are neither interchangeable nor removable, then the tests are carried out with them in place. Interchangeable outlet accessories are tested separately according to procedures specified in other parts of ISO 3822.

Thermostatic mixing valves, intended for use with more than one independent draw-off tap, and bidet valves with a direct outlet into an interior part of the body of the bidet are not regarded as conventional draw-off taps or mixing valves and are not covered by this part of ISO 3822. Similarly, electrically operated valves are regarded as combined devices (solenoid valve and outlet) and are not covered by this part of ISO 3822.

The test procedures cover a range of flow pressures between 0,1 MPa and 0,5 MPa.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 3822. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 3822 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

1) 1 MPa = 10 bar