International Standard ISO 3822/4

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Acoustics — Laboratory tests on noise emission from appliances and equipment used in water supply installations — Part 4 : Mounting and operating conditions for special appliances

Acoustique — Mesurage en laboratoire du bruit émis par les robinetteries et les équipements hydrauliques utilisés dans les installations de distribution d'eau — Partie 4 : Conditions de montage et de fonctionnement des équipements spéciaux

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

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Acoustics — Laboratory tests on noise emission from appliances and equipment used in water supply installations — Part 4 : Mounting and operating conditions for special appliances

0 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.

The mounting and operating conditions for draw-off taps are described in ISO 3822/2, whereas ISO 3822/3 describes the mounting and operating conditions for in-line valves and appliances.

This part of ISO 3822 describes the mounting and operating conditions for laboratory tests of appliances of such construction that they cannot easily be considered as draw-off taps, or in-line valves or appliances.

1 Scope and field of application

This part of ISO 3822 specifies the mounting and operating conditions to be used for a number of appliances which cannot be regarded as draw-off taps, or in-line valves or appliances, when measuring the noise emission resulting from water flow.

2 References

ISO 7/1, *Pipe threads where pressure-tight joints are made on the threads — Part 1 : Designation, dimensions and tolerances.*

ISO 48, *Vulcanized rubbers — Determination of hardness (Hardness between 30 and 85 IRHD).*

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

ISO 228/1, *Pipe threads where pressure-tight joints are not made on the threads — Part 1 : Designation, dimensions and tolerances.*

ISO 2768, *Permissible machining variations in dimensions without tolerance indication.*

ISO 3822/1, *Acoustics — Laboratory tests on noise emission from appliances and equipment used in water supply installations — Part 1 : Method of measurement.*

ISO 3822/2, *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.*

ISO 3822/3, *Acoustics — Laboratory tests on noise emission from appliances and equipment used in water supply installations — Part 3 : Mounting and operating conditions for in-line valves and appliances.*

ISO 6708, *Pipe components — Definition of nominal size.*

3 Mounting and operating conditions

3.1 Float-operated valves

3.1.1 General

A float-operated valve not forming part of a particular flushing unit shall be tested in a standard test cistern for which the internal dimensions are given in table 1.

Table 1 — Internal dimensions of standard test cisterns

Nominal size (DN) of the float-operated valves		Length	Height	Width
DN[1)]	Designation of thread	mm	mm	mm
10 15	3/8 1/2	400	300	125
20 25	3/4 1	1 050	540	350

1) See ISO 6708. DN is the symbol for "nominal size"; the nominal size value is loosely related to the inside diameter, in millimetres, of the special appliance.

Float-operated valves forming part of a flushing unit, e.g. a toilet flushing unit, shall be tested together with the cisterns in which they are mounted and also with the stop-valve if it forms part of the unit.

3.1.2 Mounting conditions

If the appliance is fitted with a copper connecting pipe, it shall be at least 10 diameters in length, though not more than 300 mm. If another type of connection is supplied, the connection to the test pipe shall be made, as far as possible, as in the field. When a compression fitting is used, a copper connecting pipe shall be inserted into the appliance, according to the