BS 1212-4:2016

BSI Standards Publication

Float operated valves

Part 4: Specification for compact type float operated valves for WC flushing cisterns (including floats)

bsi.

...making excellence a habit.™

Publishing and copyright information

Published by BSI Standards Limited 2016

ISBN 978 0 580 87608 0

ICS 91.140.60

The following BSI references relate to the work on this document:
Committee reference B/504
Draft for comment 15/30310921 DC

Publication history

First published October 1991
Second (present) edition February 2016

Amendments issued since publication

Date	Text affected

Contents

Summary of pages

This document comprises a front cover, an inside front cover, pages i to ii, pages 1 to 18, an inside back cover and a back cover.

Foreword

Publishing information

This part of BS 1212 is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 29 February 2016. It was prepared by Technical Committee B/504, *Water Supply*. A list of organizations represented on this committee can be obtained on request to its secretary.

Supersession

This part of BS 1212 supersedes BS 1212-4:1991, which is withdrawn.

Relationship with other publications

This part of BS 1212 is part of a series that contains the following parts:

- Part 1: *Specification for piston type float operated valves (copper alloy body) (excluding floats)*;
- Part 2: *Specification for diaphragm type float operated valves (copper alloy body) (excluding floats)*;
- Part 3: *Specification for diaphragm type float operated valves (plastics bodied) for cold water services only (excluding floats)*;
- Part 4: *Specification for compact type float operated valves for WC flushing cisterns (including floats)*.

Information about this document

This is a full revision of the standard, and introduces the following principal changes:

- updated throughout to allow for the state of the art currently used in the field e.g. push fit connectors;
- introduction of a specific delayed action inlet test.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is "shall".

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Requirements in this standard are drafted in accordance with *Rules for the structure and drafting of UK standards*, subclause **J.1.1**, which states, "Requirements should be expressed using wording such as: 'When tested as described in Annex A, the product shall ...'". This means that only those products that are capable of passing the specified test will be deemed to conform to this standard.

Terms of measurement are expressed in metric units except for the designations of pipe threads which are retained in imperial units in accordance with BS 2779.

Contractual and legal considerations

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.

1 Scope

This part of BS 1212 specifies requirements for materials, connecting dimensions, overall size limitations and performance of compact float operated valves, incorporating a float designed for use at operating pressures of between 0.1 bar and 10 bar [1)] and intended for use in WC flushing cisterns.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 21, *Specification for pipe threads for tubes and fittings where pressure-tight joints are made on the threads (metric dimensions)*

BS 417-2:1987, *Specification for galvanized low carbon steel cisterns, cistern lids, tanks and cylinders – Metric units*

BS 5154, *Specification for copper alloy globe, globe stop and check, check and gate valves*

BS 6100-5:2009, *Building and civil engineering – Vocabulary – Civil engineering – Water engineering, environmental engineering and pipe lines*

BS 6100-7:2008, *Building and civil engineering – Vocabulary – Services*

BS 6920-1, *Suitability of non-metallic materials and products for use in contact with water intended for human consumption with regard to their effect on the quality of the water – Specification*

BS EN 1057:2006+A1:2010, *Copper and copper alloys – Seamless, round copper tubes for water and gas in sanitary and heating applications*

BS EN ISO 7686:2005, *Plastics pipes and fittings – Determination of opacity*

3 Terms and definitions

For the purposes of this part of BS 1212 the definitions given in BS 6100-5:2009 and BS 6100-7:2008 apply, together with the following.

3.1 float operated valve
valve, operated by a float, to control flow into a vessel

3.2 compact type float operated valve
float operated valve, incorporating a float, with a suitable inlet connection having an overall space limitation [and having a size not greater than (160 × 145) mm], intended not to foul any outlet device

NOTE 1 The size requirement also applies to combined inlet and outlet flush mechanisms for the inlet aspect of these devices only.

NOTE 2 See Figure 1 for an example of a typical flushing cistern showing size limitations for compact valves.

[1)] 1 bar = 10^5 N/m^2 = 100 kPa.