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Float operated valves —

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

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Building Services Standards Policy Committee (SEB/-) to Technical Committee SEB/2, upon which the following bodies were represented:

- Association of Manufacturers of Domestic Electrical Appliances
- Association of Manufacturers of Domestic Unvented Supply Systems Equipment (MODUSSE)
- Association of Water Officers Ltd.
- British Bathroom Council
- British Gas plc
- British Non-Ferrous Metals Federation
- British Plastics Federation
- British Plumbing Fittings Manufacturers' Association
- British Valve and Actuator Manufacturers' Association
- Builders Merchants' Federation
- Consumer Policy Committee of BSI
- Department of the Environment (Building Research Establishment)
- Department of the Environment (Property Services Agency)
- Department of the Environment (Water Directorate)
- Department of Trade and Industry (National Weights and Measures Laboratory)
- Institute of Clerks of Works of Great Britain Inc
- Institute of Plumbing
- Institution of Gas Engineers
- Institution of Water and Environmental Management
- Metal Sink Manufacturers' Association
- National Association of Plumbing, Heating and Mechanical Services Contractors
- Royal Institute of British Architects
- Society of British Gas Industries
- Society of British Water Industries
- South London Consortium
- Water Companies Association
- Water Services Association of England and Wales

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Foreword

This Part of BS 1212 has been prepared under the direction of the Building Services Standards Policy Committee and specifies requirements for materials, connecting dimensions, size limitations and performance of compact type float operated valves incorporating floats, suitable for use in British Standard WC flushing cisterns.

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.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 14, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Section 1. General

1 Scope

This Part of BS 1212 specifies requirements for materials, connecting dimensions, overall size limitations and performance of nominal size $\frac{1}{2}$ compact float operated valves, of reducing flow type incorporating a float and renewable seat or no less effective valve assembly for use at operating pressures of between 0.1 bar and 14 bar¹⁾ and intended for use in British Standard WC flushing cisterns.

NOTE 1 The nominal size is that which corresponds to class G $\frac{1}{2}$ B pipe thread given in BS 2779.

NOTE 2 The titles of the publications referred to in this Part of BS 1212 are listed on the inside back cover.

2 Definitions

For the purposes of this Part of BS 1212 the definitions given in BS 6100-2.7 and BS 6100-3.3 apply, together with the following.

2.1

float operated valve

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

2.2

compact type float operated valve

a float operated valve, incorporating a float, having an overall space limitation (see Figure 1)

2.3

reducing flow type float operated valve

a float operated valve that progressively reduces the flow of water through it as the level of the water in the cistern rises

2.4

effective warning water level

the level when water reaches 10 mm above the invert of a side entry connecting warning pipe or 10 mm above the overflow level of a bottom connection warning pipe in a British Standard flushing cistern (see Figure 2)

2.5 Datum level for backflow prevention test purposes

2.5.1

the horizontal centre line of the seat, for side or bottom entry compact type float operated valves with a horizontal seat centre line

2.5.2

the interface of the seat outlet orifice and the closing member, for side or bottom entry compact type float operated valves having no horizontal seat centre line

3 Designation for ordering purposes

At the time of order or enquiry the purchaser shall specify the following information in the designation:

- a) the words “compact type float operated valve” followed by the number of this British Standard;
- b) whether side or bottom entry is required;
- c) if bottom entry is required, the height of the effective warning water level (see Figure 3 dimension *H*); in the form: BS 1212-4: bottom entry: *H* = 250 mm.

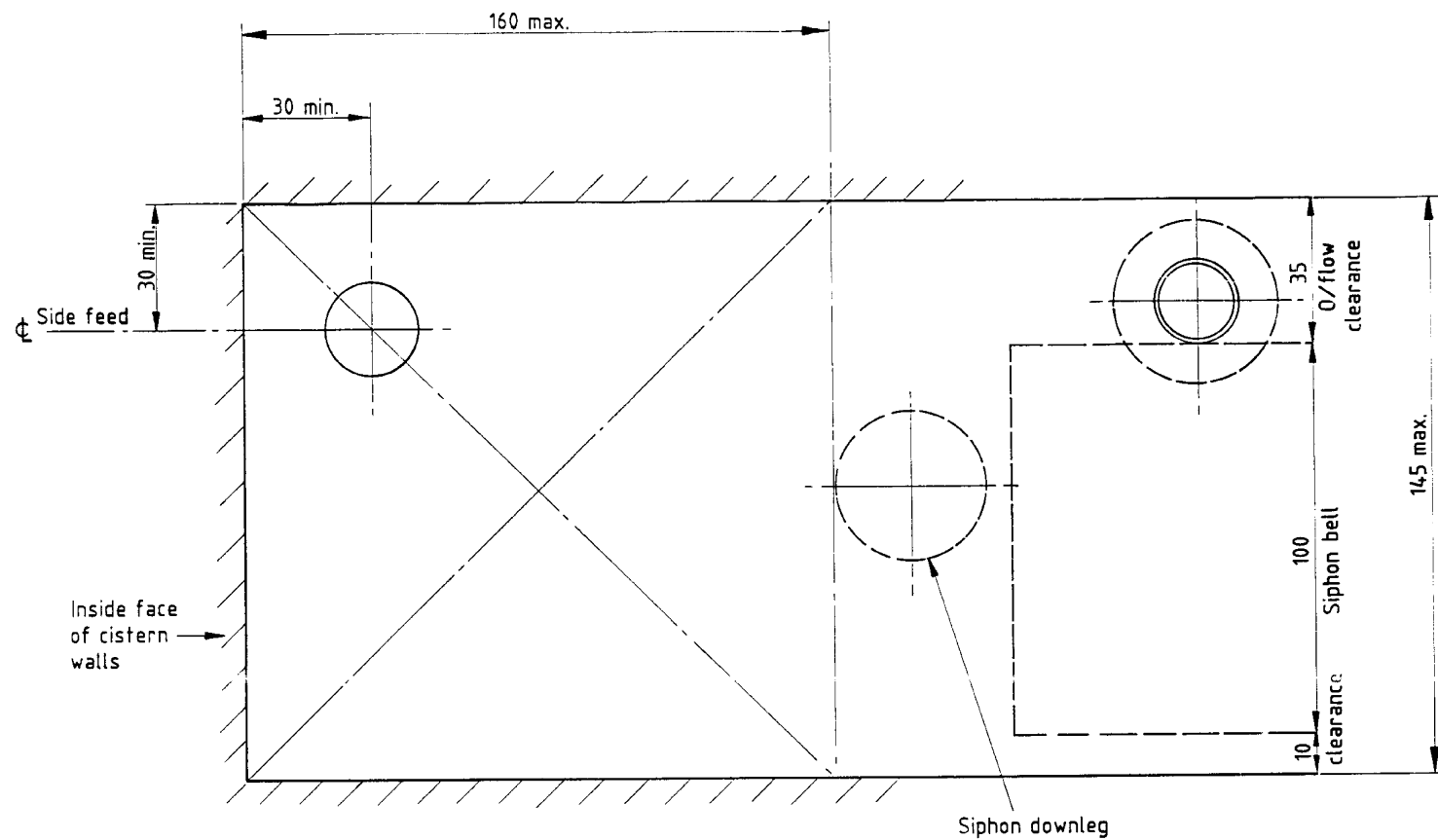
4 Marking

A compact type float operated valve shall be permanently and legibly marked with the following information in such a way as not to deform any working part.

- a) The number of this British Standard, e.g. BS 1212/4.²⁾
- b) The manufacturer's name or mark.

¹⁾ 1 bar = 10^5 N/m² = 100 kPa.

²⁾ Marking BS 1212/4 on or in relation to a product represents a manufacturer's declaration of conformity, i.e. a claim by or on behalf of the manufacturer that the product meets the requirements of the standard. The accuracy of the claim is therefore solely the responsibility of the person making the claim. Such a declaration is not to be confused with third party certification of conformity, which may also be desirable.



All dimensions are in millimetres

Figure 1 — Plan of a typical flushing cistern showing space limitations