

Industrial valves — End-to-end and centre- to-end dimensions for butt welding end valves

ICS 23.060.01

National foreword

This British Standard is the UK implementation of EN 12982:2009. It supersedes BS EN 12982:2000 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PSE/18/1, Valves - Basic standards.

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

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**Industrial valves - End-to-end and centre-to-end dimensions for
butt welding end valves**

Robinetterie industrielle - Dimensions entre extrémités et
d'extrémité à axe des appareils de robinetterie à souder en
bout

Industriearmaturen - Baulängen für Armaturen mit
Anschweißenden

This European Standard was approved by CEN on 17 July 2009.

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Foreword

This document (EN 12982:2009) has been prepared by Technical Committee CEN/TC 69 “Industrial valves”, 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of an identical text or by endorsement, at the latest by February 2010, and conflicting national standards shall be withdrawn at the latest by February 2010.

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 12982:2000.

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Introduction

The basic series given in this European Standard are taken from the original series shown in Annex A. Changes made to the original series will not be automatically incorporated into this European Standard.

The progress in work in the standardization of the different products may require a revision of this European Standard by adding or subtracting some basic series.

1 Scope

This European Standard specifies the end-to-end and centre-to-end dimensions for steel butt-welding end valves with connecting dimensions of welding ends in compliance with EN 12627, used in PN and Class designated piping systems.

The range of PN is:

— PN 10; PN 16; PN 25; PN 40; PN 63; PN 100; PN 160; PN 250; PN 320; PN 400.

The range of Class is:

— Class 150, Class 300, Class 600, Class 900, Class 1 500, Class 2 500.

The range of nominal size is:

— DN 8; DN 10; DN 15; DN 20; DN 25; DN 32; DN 40; DN 50; DN 65; DN 80; DN 100; DN 125; DN 150; DN 200; DN 250; DN 300; DN 350; DN 400; DN 450; DN 500; DN 600; DN 700; DN 750; DN 800; DN 900; DN 1 000; DN 1 200.

NOTE 1 DN 750 is not applicable to PN designated valves.

NOTE 2 See Annex B for the relationship between nominal size (DN) and nominal pipe size (NPS).

NOTE 3 Valves having welding end profiles different from those specified in EN 12627, may use the same dimensions than those specified in Table 1.

2 Normative references

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

EN 736-1:1995, *Valves — Terminology — Part 1: Definition of types of valves*

EN 736-2:1997, *Valves — Terminology — Part 2: Definition of components of valves*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 736-1:1995 and EN 736-2:1997 and the following apply.

3.1

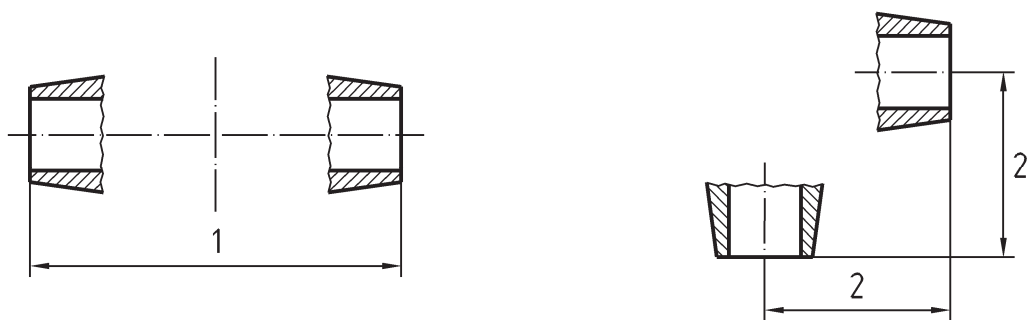
end-to-end dimensions (ETE)

distance expressed between the ends of the body for straight pattern valves other than those with flanged ends

3.2

centre-to-end dimensions (CTE)

distance expressed between one of the ends of the body and the centre of the body for angle pattern valves other than those with flanged ends



a) Straight and oblique pattern valve

b) Angle pattern valve

Key

- 1 ETE
- 2 CTE

Figure 1 – ETE and CTE dimensions

4 Dimensions and tolerances

4.1 Basic series

The basic series of ETE and CTE dimensions are given in Table 1.

For each type of valve, the basic series to be taken into consideration shall be in accordance with Tables 3 to 12.

NOTE 1 Table 1 gives complete series. In Tables 3 to 12 the columns of series may be reduced.

NOTE 2 For certain sizes/types of valves, alternative dimensions are permitted and are specified in Tables 3 to 12.

NOTE 3 Basic series numbers are corresponding to the basic series given in EN 558.

4.2 Tolerances

Tolerances on ETE and CTE dimensions shall be in accordance with Table 2.