



SLOVENSKI STANDARD

SIST EN 16722:2015

01-december-2015

Industrijski ventili - Vgradne dolžine za ventile z vijačnimi zaključki

Industrial valves - End-to-end and centre-to-end dimensions for valves with screwed ends

Industriearmaturen - Baulängen für Armaturen mit Innengewinde-Anschluss

Robinetterie industrielle - Dimensions extrémité à extrémité et axe à extrémité pour les appareils de robinetterie à embouts taraudés

Ta slovenski standard je istoveten z: **EN 16722:2015**

SIST EN 16722:2015
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ICS:

23.060.01 Ventili na splošno Valves in general

SIST EN 16722:2015 en,fr,de

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EUROPEAN STANDARD

EN 16722

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2015

ICS 23.060.01

English Version

Industrial valves - End-to-end and centre-to-end dimensions for valves with threaded ends

Robinetterie industrielle - Dimensions extrémité à extrémité et axe à extrémité pour les appareils de robinetterie à embouts filetés

Industriearmaturen - Baulängen für Armaturen mit Innengewinde-Anschluss

This European Standard was approved by CEN on 15 August 2015.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN 16722:2015) 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of an identical text or by endorsement, at the latest by March 2016, and conflicting national standards shall be withdrawn at the latest by March 2016.

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.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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EN 16722:2015 (E)

Introduction

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

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1 Scope

This European Standard specifies the end-to-end and centre-to-end dimensions for valves with threaded ends with connecting dimensions in compliance with EN ISO 228-1 or EN 10226-1, 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 4; DN 6; DN 8; DN 10; DN 15; DN 20; DN 25; DN 32; DN 40; DN 50; DN 65; DN 80; DN 100.

NOTE 1 See Annex C for the relationship between nominal size (DN) and nominal pipe size (NPS).

NOTE 2 Valves having screwed end profiles different from those specified in EN ISO 228-1 or EN 10226-1, may use the same dimensions than those specified in Table 1.

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.

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

<https://standards.iteh.ai/catalog/standards/sist/0b90739a-6169-48e1-a085-10cc5a106431/en-736-2:1997>
EN 736-2:1997, *Valves — Terminology — Part 2: Definition of components of valves*

EN 736-3:2008, *Valves — Terminology — Part 3: Definition of terms*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 736-1:1995, EN 736-2:1997 and EN 736-3:2008 and the following apply.

3.1

end-to-end dimensions (ETE) (straight pattern valves)

distance expressed between the ends of the body for straight and oblique pattern valves

3.2

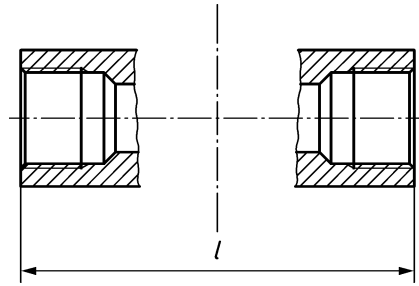
centre-to-end dimensions (CTE) (angle pattern valves)

distance expressed between one of the ends of the body and the centre of the body for angle pattern valves

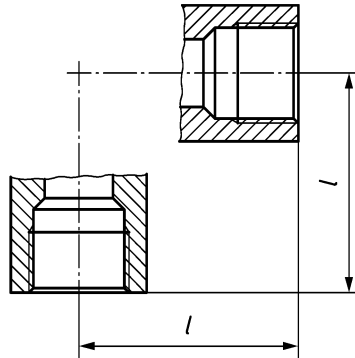
3.3

end-to-end and centre-to-end dimensions (ETE+CTE) (three-way valves)

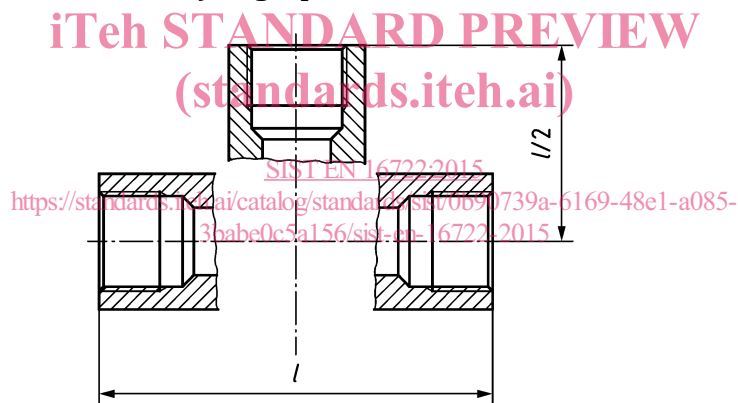
distance expressed between the ends of the body (ETE) in the run and distance expressed between the end of the body in the branch and the centre of the body (CTE)



a) Straight and oblique pattern valve



b) Angle pattern valve



c) Three-way valve

KeyFigure 1 a) ETE with $ETE = l$ Figure 1 b) CTE with $CTE = l$ Figure 1 c) ETE+CTE with $ETE = l$ and $CTE = l/2$ **Figure 1 — ETE and CTE dimensions****4 Dimensions and tolerances****4.1 Basic series**

The basic series of l for 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 7.

Other dimensions are subject of agreement between manufacturer and purchaser.

NOTE 1 Table 1 gives complete series. In Tables 3 to 7 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 7.

4.2 Tolerances

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

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EN 16722:2015 (E)

Table 1 — Dimensions *l* of basic series

Dimensions in millimetres

DN	Basic series																							
	M2	M3	M4	M5	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15	X16	X17	X18	X19	X20
4	-	50	70	50	-	-	-	-	-	-	-	-	-	69	69	69	-	-	-	-	-	-	-	-
6	-	50	70	50	-	-	-	-	-	-	-	-	-	69	69	69	-	85	-	-	-	-	-	-
8	-	55	70	55	-	-	-	70	65	78	-	-	-	69	69	-	-	85	-	-	-	55	67	75
10	70	60	75	55	95	-	-	70	65	78	55	-	-	73	73	72	-	85	-	-	-	55	67	75
15	85	75	85	65	95	49	200	70	65	90	65	117	104	84	-	-	-	-	95	-	-	65	75	90
20	100	80	95	75	95	49	200	80	65	95	80	117	104	96	97	95	-	100	95	-	-	70	90	105
25	115	90	105	90	95	61	200	90	-	-	-	139	104	113	113	113	120	110	95	65	80	85	105	120
32	130	110	120	95	95	61	200	-	-	-	-	186	110	115	110	120	130	-	65	80	95	120	-	
40	150	120	130	100	130	72	255	-	-	-	-	186	-	120	135	130	140	145	165	70	87	105	135	-
50	180	140	150	112	230	72	255	-	-	-	-	209	-	140	140	140	150	160	165	70	91	125	155	-
65	-	185	185	132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	167	190	-
80	-	205	205	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	192	205	-
100	-	240	240	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	230	-

Table 1 (continued)

Dimensions in millimetres

DN	Basic series									
	X21	X22	X23	X24	X25	X26	X27	X28	X29	X30
4	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-
8	70	72	-	-	42	-	-	-	-	-
10	70	72	-	75	49	60	59	83	-	105
15	75	82	75	85	56	65	74	90	90	114
20	85	92	75	100	61	78	80	97	100	125
25	102	102	75	115	69	92	91	110	115	142
32	118	118	-	130	77	105	110	124	134	160
40	125	134	-	150	81	120	120	130	150	170
50	149	144	-	180	95	145	141	155	168	200
65	-	-	-	170	112	-	-	-	-	-
80	-	-	-	220	122	-	-	-	-	-
100	-	-	-	-	160	-	-	-	-	-