SLOVENSKI STANDARD
SIST EN 736-1:2018

01-maj-2018

Nadomešča:
SIST EN 736-1:2000

Ventili - Terminologija - 1. del: Definicija osnovnih vrst ventilov

Valves - Terminology - Part 1: Definition of types of valves

Armaturen - Terminologie - Teil 1: Definition der Grundbauarten

Appareils de robinetterie - Terminologie - Partie 1 : Définition des types d'appareils

Ta slovenski standard je istoveten z: EN 736-1:2018

ICS:

01.040.23	Tekočinski sistemi in sestavni deli za splošno rabo (Slovarji)	Fluid systems and components for general use (Vocabularies)
23.060.01	Ventili na splošno	Valves in general

SIST EN 736-1:2018 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 736-1

February 2018

ICS 01.040.23; 23.060.01

Supersedes EN 736-1:1995

English Version

Valves - Terminology - Part 1: Definition of types of valves

Appareils de robinetterie - Terminologie - Partie 1 : Définition des types d'appareils

Armaturen - Terminologie - Teil 1: Definition der Grundbauarten

This European Standard was approved by CEN on 17 December 2017.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. EN 736-1:2018 E

Contents

Page

European foreword

This document (EN 736-1:2018) 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 August 2018 and conflicting national standards shall be withdrawn at the latest by August 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 736-1:1995.

The main change to the previous version is the editorial revision of the standard.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies the denominations of valves to provide a uniform and systematic terminology for all types of valves.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1
valve
piping component which influences the fluid flow by opening, closing or partially obstructing the passage of the fluid flow or by diverting or mixing the fluid flow

4 Types of valves related to design

4.1 Basic types

4.1.1 General

By reasons of classification of terms, Clause 4 provides definitions related to basic design characteristics.

Table 1 shows the basic types of valves.

They are distinguished by:

a) the type of motion of the obturator;

b) the direction of flow towards the seating surface.

4.1.2 Gate valve

A gate valve is a valve in which the obturator movement is linear and, towards the seating surface, at right angle to the direction of flow.

4.1.3 Globe valve

A globe valve is a valve in which the obturator movement is linear and, towards the seating surface, in parallel to the direction of flow.

NOTE This definition also applies to lift check valves and axial check valves.

4.1.4 Plug and ball valve

A plug and ball valve is a valve in which the obturator rotates about an axis at right angle to the direction of flow and, in the open position, the flow passes through the obturator.

4.1.5 Butterfly valve and eccentric plug valve

A butterfly and eccentric plug valve is a valve in which the obturator rotates about an axis at right angle to the direction of flow and, in the open position, the flow passes around the obturator.

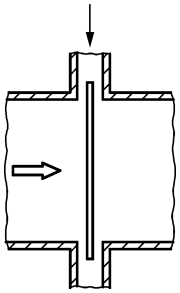
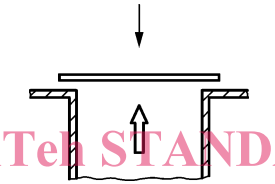
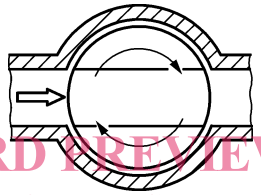
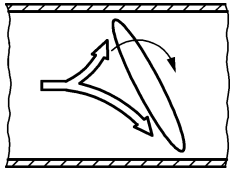
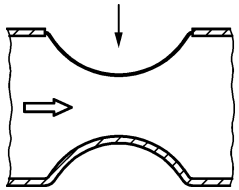
NOTE This definition also applies to swing check valves.

4.1.6 Diaphragm valve

A diaphragm valve is a valve in which the fluid flow passage through the valve is changed by deformation of a flexible obturator.

NOTE This definition also applies to diaphragm check valves.

Table 1 — Basic types of valves

Operation of the obturator	Linear motion		Rotation about an axis at right angle to the direction of flow		Deformation of a flexible component
Direction of flow towards the seating surface	At right angle to the operating motion of the obturator	Parallel to the direction of the operating motion of the obturator	Through the obturator	Around the obturator	Depends on design
Schematic figures					
Basic types	Gate valve (see Figure 1)	Globe valve (see Figures 2, 3 and 4)	Plug and ball valve (see Figures 5 and 6)	Butterfly and eccentric plug valve (see Figures 7, 8 and 9)	Diaphragm valve (see Figures 10 and 11)
NOTE ⇨ direction of fluid flow → operating motion of the obturator					

4.2 Examples of basic types

Figures 1 to 11 show typical designs of valves. Details of different body patterns and obturator designs are given in EN 736-2.

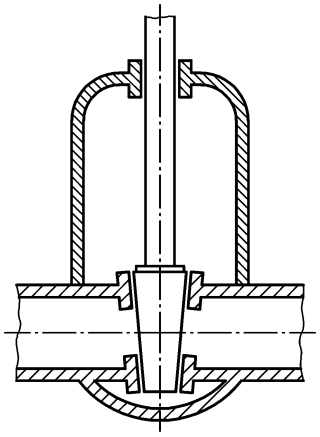


Figure 1 — Gate valve

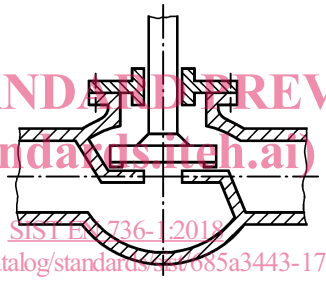


Figure 2 — Globe valve

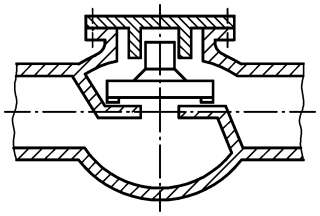


Figure 3 — Lift check valve

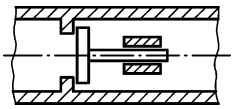


Figure 4 — Axial check valve

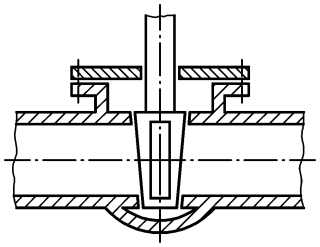


Figure 5 — Plug valve

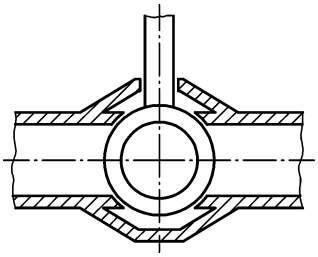


Figure 6 — Ball valve