
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 736-1:1995

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ICS:

01.040.23	V^\ [a • \ A a c { a A ^ • c e } a Fluid systems and components for general use (Vocabularies)
23.060.01	Ventili na splošno Valves in general

SIST EN 736-1:2000

en

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EUROPEAN STANDARD

EN 736-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 1995

ICS 01.040.23; 23.060.00

Descriptors: valves and fittings, vocabulary, classifications, designation

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

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Standard has been prepared by the 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of an identical text or by endorsement, at the latest by August 1995, and conflicting national standards shall be withdrawn at the latest by August 1995.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

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1 Scope

This standard gives the denominations of valves. It has the purpose to provide a uniform and systematic terminology for all types of valves. By reasons of classification of terms clause 4 defines terms related to basic design characteristics and clause 5 defines terms related to functional characteristics of valves.

2 Normative reference

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard, only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 736-2 Valves - Terminology - Part 2: Definition of components of valves

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3 Definition

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For the purposes of this standard, the following definitions apply:

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

Table 1 shows the basic types of valves.

They are distinguished by;

- a) the operating motion of the obturator;
- b) the direction of flow in the seating area.

4.1.1 *Gate valve*

Valve in which the obturator movement is linear and, in the seating area, at right angle to the direction of flow.

4.1.2 *Globe valve*

Valve in which the obturator movement is linear and, in the seating area, in the direction of flow.

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

4.1.3 *Plug and ball valves*

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.

4.1.4 *Butterfly valve and eccentric plug valve*

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.

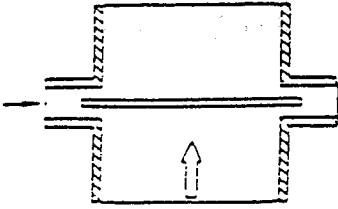
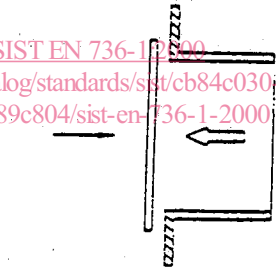
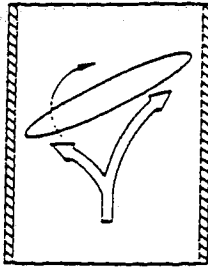
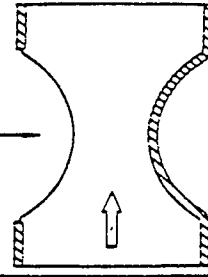
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NOTE: This definition also applies to swing check valves.

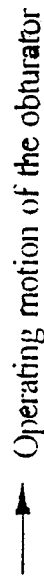
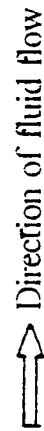
4.1.5 *Diaphragm valve*

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

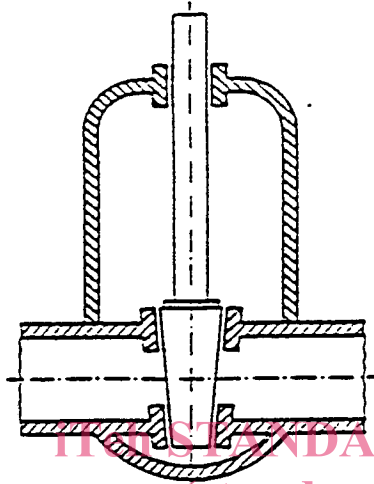
Operation of the obturator	Linear motion		Rotation about an axis at right angles to the direction of flow	Deformation of a flexible component
	At right angles to the operating motion of the obturator	In the direction of the operating motion of the obturator		
Direction of flow in the seating area				
Schematical figures				
Basic types	Gate valve	Globe valve	Plug and ball valves	Butterfly and eccentric plug valves



4.2 Examples of basic types

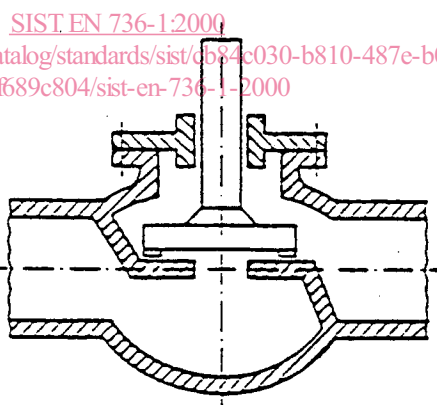
The schematic figures given below show typical designs of valves. Details of different body patterns and obturator designs are given in EN 736-2.

4.2.1 Gate valve

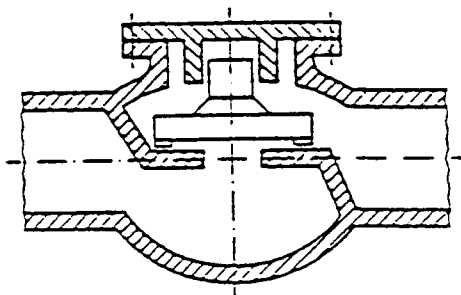


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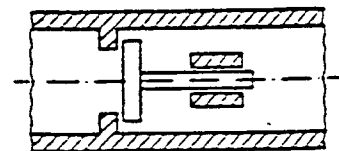
4.2.2 Globe valve



Globe valve



Lift check valve



Axial check valve