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Wafer type rubber-seated butterfly valves

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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Valve Manufacturers' Association (JVMA)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS B 2032 : 2013**), which has been technically revised.

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Wafer type rubber-seated butterfly valves

1 Scope

This Japanese Industrial Standard specifies the characteristics of wafer type rubber-seated butterfly valves (hereafter referred to as the valves) to be used for the piping for general facilities such as mechanical devices, building apparatuses and water treatments. This Standard does not apply to those for ships and water service facilities to which other standards apply. For reference, the designation items of purchase specification of valves and the items of previous arrangement at the time of contract are given in Annex A, and the precautions on use are given in Annex B.

Every pressure used in this Standard is the gauge pressure.

NOTE If the application and the approval and authorization of various laws and regulations are required, they shall be individually observed.

2 Normative references

Part or all of the provisions of the following standards, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

- JIS B 0100 *Glossary of terms for valves*
- JIS B 2002 *Face-to-face and end-to-end dimensions of valves*
- JIS B 2003 *General rules for inspection of valves*
- JIS B 2004 *General rules for marking on valves*
- JIS B 2051 *Malleable iron and ductile iron valves*
- JIS B 2220 *Steel pipe flanges*
- JIS B 2239 *Cast iron pipe flanges*
- JIS G 3101 *Rolled steels for general structure*
- JIS G 3201 *Carbon steel forgings for general use*
- JIS G 3202 *Carbon steel forgings for pressure vessels*
- JIS G 3214 *Stainless steel forgings for pressure vessels*
- JIS G 3459 *Stainless steel pipes*
- JIS G 4303 *Stainless steel bars*
- JIS G 4304 *Hot-rolled stainless steel plate, sheet and strip*
- JIS G 4305 *Cold-rolled stainless steel plate, sheet and strip*
- JIS G 4318 *Cold finished stainless steel bars*

- JIS G 5101 *Carbon steel castings*
JIS G 5121 *Corrosion-resistant cast steels for general applications*
JIS G 5151 *Steel castings for high temperature and high pressure service*
JIS G 5501 *Grey iron castings*
JIS G 5502 *Spheroidal graphite cast irons*
JIS G 5705 *Malleable iron castings*
JIS H 3250 *Copper and copper alloy rods and bars*
JIS H 5120 *Copper and copper alloy castings*
JIS H 5202 *Aluminium alloy castings*
JIS H 5302 *Aluminium alloy die castings*
ISO 5211 *Industrial valves — Part-turn actuator attachments*

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions, and those given in **JIS B 0100** apply.

3.1

centred shaft and disc type

type of structure in which the outer periphery of valve disc is on the same plane as the centreline of valve stem

Note 1 to entry See Figure 1.

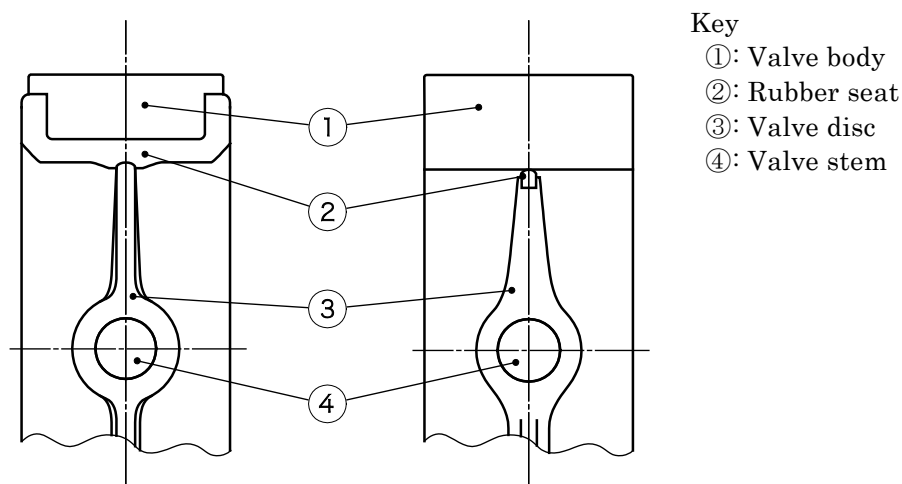


Figure 1 Example of centred shaft and disc type

3.2

eccentric type

type of structure in which the outer periphery of valve disc is not on the plane containing the centreline of valve stem and is on a plane parallel to it

Note 1 to entry See Figure 2.

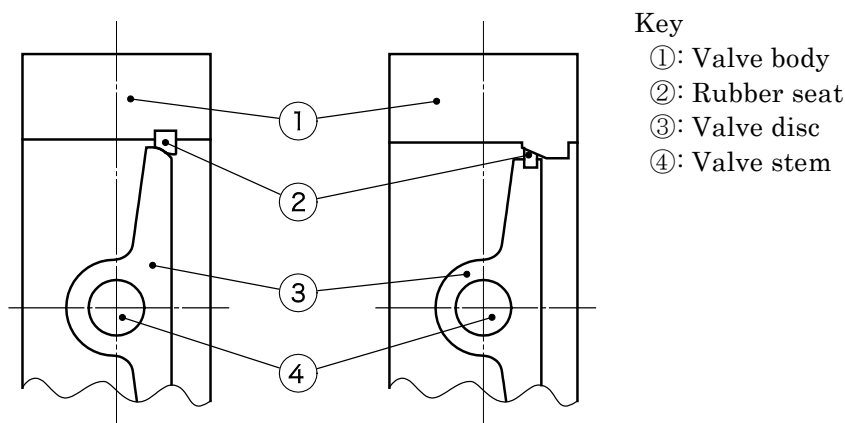


Figure 2 Example of eccentric type

3.3

minimum bore

smallest inner diameter of rubber seat if the rubber seat is attached to the valve body, and smallest inner diameter of valve body if attached to the valve disc

Note 1 to entry See Figure 4.

3.4

rubber seat

rubber constructing the valve seat being attached to the valve body or the valve disc

3.5

face-to-face dimension

dimension between the valve end faces under the condition in which the valve is connected to piping

Note 1 to entry See JIS B 2002.

3.6

trim

main part inside the valve composed of valve stem, rubber seat, seat face contacting rubber seat, joint part between valve stem and valve disc, and bush

3.7

type inspection

inspection for judgement whether the qualities of product conform to all the character-