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Performance requirements and tests
for flangeless end valves

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law.

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Performance requirements and tests for flangeless end valves

1 Scope

This Japanese Industrial Standard specifies test methods and performance requirements for flangeless end valves made of steel, cast iron and copper alloy (hereafter referred to as “valves”), regarding the strength and sealing behaviour of end connections.

This Standard is applicable to valves with a nominal pressure of 5 K, 10 K and 16 K, a nominal diameter of 300 A or less and a service temperature of 100 °C or lower, but not applicable to the valves used for combustible or toxic inner fluid.

The pipe flanges suitable for connection with valves (hereafter referred to as “flanges”) shall have the pressure-temperature rating at least equivalent to the flanges specified in **JIS B 2220**, **JIS B 2239** and **JIS B 2240**, and the gasket contact surface of flange shall be raised or flat face.

For reference, Annex B provides the information about factors to be considered in designing and installing valves.

2 Normative references

The following standards contain provisions which, 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 0205-4 *ISO general purpose metric screw threads—Part 4: Basic dimensions*

JIS B 0209-1 *ISO general purpose metric screw threads—Tolerances—Part 1: Principles and basic data*

JIS B 1003 *Fasteners—Ends of parts with external ISO metric thread*

JIS B 1021 *Tolerances for fasteners—Part 1: Bolts, screws, studs and nuts—Product grades A, B and C*

JIS B 1041 *Fasteners—Surface discontinuities—Part 1: Bolts, screws and studs for general requirements*

JIS B 1042 *Fasteners—Surface discontinuities—Part 2: Nuts*

JIS B 1051 *Mechanical properties of fasteners made of carbon steel and alloy steel—Part 1: Bolts, screws and studs*

JIS B 1052-2 *Mechanical properties of fasteners—Part 2: Nuts with specified proof load values—Coarse thread*

JIS B 1052-6 *Mechanical properties of fasteners—Part 6: Nuts with specified proof load values—Fine pitch thread*

JIS B 1054-1 *Mechanical properties of corrosion-resistant stainless steel fasteners—Part 1: Bolts, screws and studs*