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(JVMA)

**Malleable iron and ductile iron  
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) 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 2051**:2015), which has been technically revised.

However, **JIS B 2051**:2015 may be applied in the **JIS** mark certification based on the relevant provisions of Article 30, paragraph (1), etc. of the Industrial Standardization Act until 22 September 2020.

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# Malleable iron and ductile iron valves

## 1 Scope

This Standard specifies requirements for screwed end valves and flanged end valves made of malleable cast iron and ductile cast iron used for general machinery (hereafter referred to as valves).

Annex C shows for reference the operation restriction torque for operating the valve by handwheel.

NOTE 1 The malleable cast iron in the title of this Standard is the generic term for blackheart malleable cast iron, and the ductile cast iron is the generic term for the spherical graphite cast iron and the ductile cast iron products specified in Annex A of this Standard.

NOTE 2 All the pressure values shown in this Standard are gauge pressure values.

## 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 0203 *Taper pipe threads*

JIS B 0253 *Gauges for taper pipe threads*

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

JIS B 1054-2 *Mechanical properties of corrosion-resistant stainless steel fasteners—Part 2: Nuts*

JIS B 1180 *Hexagon head bolts and hexagon head screws*

JIS B 1181 *Hexagon nuts and hexagon thin nuts*

JIS B 2001 *Nominal size and bore of 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 2239 *Cast iron pipe flanges*

JIS G 0320 *Standard test method for heat analysis of steel products*

JIS G 3101 *Rolled steels for general structure*

JIS G 3202 *Carbon steel forgings for pressure vessels*

JIS G 3214 *Stainless steel forgings for pressure vessels*

JIS G 4051 *Carbon steels for machine structural use*