

JIS

JAPANESE INDUSTRIAL STANDARD

**Flexible flanged shaft
couplings**

☞ **JIS B 1452—1991**

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Flexible flanged shaft couplings

J I S
B 1452-1991

1. Scope

This Japanese Industrial Standard specifies the flexible flanged shaft couplings, (hereafter referred to as couplings), to be used for general machinery.

Remarks: Applicable standards to this Standard are shown in the following:

JIS B 0209-Limits of Sizes and Tolerances for Metric Coarse Screw Threads

JIS B 0401-System of Limits and Fits

JIS B 0405-General Tolerances - Part 1: Tolerances for Linear and Angular Dimensions without Individual Tolerance Indications (ISO 2768-1: 1989)

JIS B 0903-Cylindrical Shaft Ends

JIS B 1002-Dimensions of Widths Across Flats

JIS B 1003-Ends of Parts with External Metric Screw Thread

JIS B 1181-hexagon Nuts and Hexagon Thin Nits

JIS B 1251-Spring Lock Washers

JIS B 1301-Sunk Keys and their Corresponding Keyways

JIS B 7503-Dial Gauges Reading in 0.01 mm

JIS G 3101-Rolled Steel for General Structure

JIS G 3201-Carbon Steel Forgings for General Use

JIS G 3506-High Carbon Steel Wire Rods

JIS G 4051-Carbon Steels for Machine Structural Use

JIS G 5101-Carbon Steel Castings

JIS G 5501-Grey Iron Castings

JIS K 6386-Rubber Materials for Vibration Isolators

2. Quality

2.1 The coupling bodies shall be free from defects such as injurious blowholes, flaws, cracks, and so on.

Furthermore, the bolts, nuts, washers, spring washers and bushings shall be free from flaws, cracks, etc.

2.2 The tolerance for deviation of outside diameter of flange to the center of shaft hole, and for deviation of coupling face near the periphery of flange shall be 0.03 mm.

2.3 Permissible deviations of the pitch circle diameter of bolt holes, of the pitch circle diameter of bush holes, and of pitch, and tolerance of radial deviation of pitch circle diameter with respect to the center of shaft hole shall, as a rule, conform to Table 1.

Table 1

Unit: mm

Pitch circle diameter	Permissible deviations of pitch circle diameter and of pitch	Tolerance of radial deviation of pitch circle diameter
60, 67, 75	± 0.16	0.12
85, 100, 115, 132, 145	± 0.20	0.14
170, 180, 200, 236	± 0.26	0.18
260, 300, 355, 450, 530	± 0.32	0.22

2.4 The coupling shall be well balanced, not causing any vibration.

3. Shape and dimensions

3.1 The shape and dimensions of the coupling body, bolt, washer and bushing shall conform to Attached Tables 1 and 2.

3.2 The shaft hole diameter of the coupling shall be not more than the largest diameter specified in Attached Table 1, and shall, as a rule, conform to JIS B 0903.

The dimensions and tolerances for the key-way of the coupling body shall conform to JIS B 1301.

Remarks: The shaft hole diameter may be left rough polished by agreement between the parties concerned.

3.3 The dimensional tolerances and permissible deviations on each parts of coupling shall, as a rule, conform to Tables 2 and 3.