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**NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA**

**GB/T 5843-2025**

Replacing GB/T 5843-2003

**Flange coupling**

凸缘联轴器

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## Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 5843-2003 "Flange Couplings". Compared with GB/T 5843-2003, except for structural adjustments and editorial changes, In addition to the above, the main technical changes are as follows.

- a) The J1-type shaft hole of the GY-type flange coupling has been deleted (see Figure 1 and Table 1 of the 2003 edition);
- b) The J1-type shaft hole of the GYS flange coupling has been deleted (see Figure 2 and Table 1 of the 2003 edition);
- c) The J1-type shaft hole of the GYH flange coupling has been deleted (see Figure 3 and Table 1 of the 2003 edition);
- d) The nominal torque values of flange couplings have been changed (see Chapter 1 and Table 1, Table 1 of the 2003 edition);
- e) The marking method of flange couplings has been changed (see 4.2, 3.2 of the 2003 edition);
- f) Changed the rotation diameter D of flange couplings of GY110 (formerly GY4), GYS110 (formerly GYS4), GYH110 (formerly GYH4) The value of (see Table 1, Table 1 of the 2003

edition);

- g) Added some shaft hole diameter specifications (see Table 1);
- h) Added the tolerance zone code for the flange coupling shaft hole diameter (see Table 1);
- i) Added relevant parameters of connecting bolt holes (see Table 1);
- j) The materials of the half-shaft and the centering ring (GYH type) have been changed (see Table 2, Table 2 of the 2003 edition);
- k) Added the bolt tightening torque requirements for flange couplings (see 6.4);
- l) Added test methods (see Chapter 7).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is proposed and coordinated by the National Technical Committee for Standardization of Machine Shafts and Accessories (SAC/TC109).

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This document was first issued in 1986, revised for the first time in 2003, and this is the second revision. Flange coupling

## 1 Scope

This document specifies the basic parameters, main dimensions and technical requirements of flange couplings, as well as test methods, inspection rules, marking, packaging. It also defines the types and markings of products.

This document is applicable to the manufacture of flange couplings that transmit nominal torques of 80 N-m to 180000 N-m.

## 2 Normative references

GB/T 27

GB/T 191

GB/T 699-2015

GB/T 1800.1-2020

GB/T 1800.2-2020

GB/T 3098.1-2010

GB/T 3098.2-2015

GB/T 3852-2017

GB/T 3931

GB/T 4879

GB/T 5782

GB/T 6388

GB/T 12458-2017

GB/T 13384

### 3 Terms and definitions

The terms and definitions defined in GB/T 3931 apply to this document.

#### 4.1 Type

According to the classification rules defined in GB/T 12458-2017, the types of flange couplings are divided into.

- Basic type (see Figure 1), type code "GY";
- Centering tenon type (see Figure 2), type code "GYS";