

HG

Professional Standard of the People's Republic of China

HG/T 20631-2009

Replace HG 20631-1997

钢制管法兰用缠绕式垫片 (Class 系列)

Spiral Wound Gaskets for Use with Steel Pipe Flanges

(Class Designated)

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China**

Spiral Wound Gaskets for Use with Steel Pipe Flanges (Class Designated)

1. Scope

This Standard specifies the type, dimension, technical requirements and mark for steel pipe flanges (Class designated) with spiral wound gaskets.

This standard is suitable for spiral wound gasket for use with steel pipe flanges with pressure nominal of Class150 (PN20) ~ Class2500 (PN420) stipulated by HG/T 20615, HG/T 20623.

2. Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

“Hot-rolled sheets and strips of carbon structural steels and high strength low alloy structural steels” GB/T 912

“Cold Rolled Stainless Steel Plate Sheet and Strip” GB/T 3280

“Hot rolled stainless steel plate sheet and strip” GB/T 4237

“Cold-rolled sheets and strips of carbon structural steels” GB/T 11253

“Steel Pipe Flange (Class Designated)” HG/T 20615

“Major Diameter Steel Pipe Flange (Class Designated)” HG/T 20623

“Specification for Selection of Steel Pipe Flange, Gaskets and Bolting (Class designated)” HG/T 20635

“Specifications of Flexible Graphite Sheets” JB/T 7758.2





“Asbestos paper and millboard” JC/T 69

“Unsintered polytetrafluoroethylene(PTFE) tapes for thread sealing” QB/T 3628

3. General Specification

3.0.1 The type, code, section form of the gasket and its types applied to the seal face of flanges shall conform to regulations in Table 3.0.1.

Table 3.0.1 Type and code of gaskets

Type	Code	Section form	Applicable type of flange sealing face
Basic type	A		T/G
Inner ring type	B		FF/M
Centring ring type	C		RF ^a
Inner ring type and centring ring type	D		RF ^a

^a As well as applied to the wholly plane reverse seal of the flange.

3.0.2 The nominal pressure and dimension

1. The nominal pressure applicable to gaskets: Class150 (PN20), Class300 (PN50), Class600 (PN110), Class900 (PN150), Class1500 (PN250), Class2500(PN420).

2. Range of nominal dimensions applicable to gaskets can refer to the Table 4.0.1-1 and 4.0.1-4.

3.0.3 Operating requirements for gaskets.

1. Temperature range for gaskets shall refer to Table 3.0.3.

2. The type and materials for gaskets shall be selected according to fluid, operating conditions, materials, seal type of flanges, superficial roughness and bolt loads. Gaskets used for particular purposes shall get confirmed by supplier.

3. The selecting of gaskets, flanges and bolting shall conform to regulations of HG/T 20635.

3.0.4 Material

1 The typical material of metal strip follows the provisions in Table 3.0.3 of this standard. The thickness of metal strip is 0.2 ± 0.02 mm. The chemical composition and mechanical property of metal strip material should comply with provisions of GB/T 3280. Metal strip material of the metal belt shall be less than 150 or under requirements of users.

2. The chemical components and physical performance of the filling materials shall conform to regulations in Table 3.0.3 and 3.0.4. The Teflon shall not use laid stuff. The thickness of the filling materials shall be regulated by the manufacturer and conform to the compression load Performances of gaskets regulated in Article 5.0.4.

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