

HG

Professional Standard of the People's Republic of China

HG/T 20632-2009

Replace HG 20632-1997

钢制管法兰用具有覆盖层的齿形组合垫 (Class 系列)

Covered Serrated Metal Gaskets for Use with Steel Pipe Flanges

(Class Designated)

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China**

Covered Serrated Metal 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 covered serrated metal gaskets.

The standard is applicable to nominal pressure of Class150 (PN20) ~Class2500 stipulated in HG/T 20615 and HG/T 20623 of covered serrated metal gaskets for use with steel pipe flanges (PN420).

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

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

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

“HG/T 20615 "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

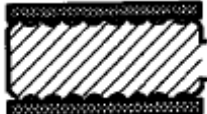
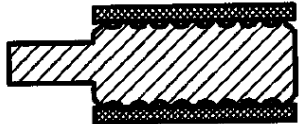

“Polytetrafluoroethylene sheet” QB/T 3625

3. General Specification

3.1 Types and Codes

The type, code, section form of the gasket and its types applied to the seal face of flanges shall conform to regulations in Table 3.1.

Table 3.1 Typical type codes of gaskets

Type	Code	Section form	Applicable flange sealing face types
Basic type	A		TF/GF or FF/MF
The whole belt to the middle ring	B		RF ^a
Flexible belt to the middle ring	C		RF ^a

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

3.2 The Nominal pressure and dimension

3.2.1 The applicable PN for gaskets is as: Class150 (PN20), Class300 (PN50), Class600 (PN110), Class900 (PN150), Class1500(PNZ50), ClassZ500 (PN420)..

3.2.2 The dimensional range of DN applicable to this standard could refer to Table 4-1 and 4-4.

3.3 Application of gaskets

3.3.1 Working temperature range shall be in accordance with Table 3.3.1.

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

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

Table 3.3.1 Working temperature range of gaskets

Covered serrated metal gasket		Cover materials		Working temperature range (°C)
Designation	Standard	Name	References	
0Cr18Ni9 (304)	GB/T 4237 GB/T 3280	Flexible graphite	JB/T 7758.2	-200~+650
00Cr19Ni10 (304 L)		PTFE	QB/T 3625	-200~+200
0Cr17Ni12Mo2 (316)				
00Cr17Ni14Mo2 (316 L)				
0Cr18Ni10Ti (321)				
0Cr18Ni11Nb (347)				
0Cr25Ni20 (310)				

If used as the oxidant, the maximum working temperature shall be 450°C.

3.4 Materials

3.4.1 The typical materials used by the serrated metal ring shall conform to the Table 3.3.1. The adoption of other materials shall be marked out in the order.

3.4.2The typical materials for the envelop layer may adopt the flexible graphite or Teflon, as well as other materials, which shall be marked out in the order.

3.4.3 The performance of the flexible graphite and Teflon shall conform to regulations in Table 3.4.3 and 3.3.1. The Teflon shall not be adopted together with laid stuff.

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