

HG

Professional Standard of the People's Republic of China

HG/T 20630-2009

Replace HG 20630-1997

钢制管法兰用金属包覆垫片 (Class 系列)

Metal Jacketed Gaskets for use with Steel Pipe Flanges

(Class Designated)

Issued on Feb 05, 2009

Implemented on Jul 01, 2009

**Issued by the Ministry of Industry and Information Technology of the People's Republic of
China**

Metal Jacketed 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 PTFE envelope gaskets.

This standard applies to the metal jacketed gasket of the RF steel pipe flange with pressure nominal Class300 (PN50) ~ Class900 (PNI50) regulated by HG/T 20615.

Note: The use of asbestos shall conform to relevant rules and laws. Safeguard shall be taken to the production and use of asbestos materials so as to pose no harm to human body.

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.

“Metallic materials—Bend test” GB/T 232

“Hot-rolled quality carbon structural steel sheets and strips” GB/T 710

“Sheet of copper and copper alloy” GB/T 2040

“Continuously hot-dip zinc-coated steel sheet and strip” GB/T 2518

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

“Aluminium and aluminium alloy rolled sheet” GB/T 3880

“Compressed Asbestos Fibre Jointing” GB/T 3985

“Metallic envelope gaskets for pipe flanges” GB/T 15601

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

“Specification for selection of steel pipe flanges gaskets and bolting (Class designated) ” HG/T 20635

“Specifications of Flexible Graphite Sheets” JB/T 7758.2

3. Working Condition of Gaskets

3.0.1 Maximum working temperature of metal envelope materials shall be in accordance with Table 3.0.1.

Table 3.0.1 Maximum working temperature of metal envelope materials

Metal envelope materials	Standards	Code	Max. working temp. (°C)
Pure aluminum plate L3	GB/T 3880	L3	200
Pure copper plate T3	GB/T 2040	T3	300
Galvanized steel sheet	GB/T 2518	St (Zn)	400
08F	GB/T 710	St	
0Cr13	GB/T 3280	405	500
0Cr18Ni9		304	600
0Cr18Ni10Ti		321	
00Cr17Ni14Mo2		316L	
00Cr19Ni13Mo3		317L	

NOTE: Other materials can be used for envelope, however, shall be indicated in contract.

Table 3.0.2 Max. working temperature of fill materials

Fill material	Code	Max. working temp. (°C)
Flexible graphite	FG	650
The asbestos rubber board	AS	300
The non-asbestos rubber board	The organic fiber	200
	The inorganic fiber	290

Note I: Other materials may be adopted for filling and shall be marked out in the order.

Note II: The maximum working temperature for the flexible graphite plate, if used as the oxidant, is 450°C.

3.0.3 The maximum working temperature of the metal jacketed gasket shall be lower than the lower value of the maximum working temperature of the metal and filling materials.

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

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