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Chemical Industry Standard
of the People's Republic of China

HG

HG/T 20609-2009

Replacing HG 20609-1997

Metal Jacketed Gaskets for use with Steel Pipe

Flanges

(PN Designated)

钢制管法兰用金属包覆垫片

(PN 系列)

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1. Scope

This national standard specifies pattern, dimension, and technical requirement and marking of metal jacketed gaskets for use with steel pipe flanges (PN designated).

This Standard is applicable to metal jacketed gaskets for use with steel pipe flange with raised face in nominal pressure of PN25~PN100 specified in HG/T 20592.

Note: the use of the asbestos-contained material shall comply with requirements of relevant laws and regulations. When the production and use are containing asbestos material gasket, protective measures shall be adopted, so as to ensure not endanger the person health.

2. Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. For dated reference, subsequent amendments (excluding content of corrigenda) to, or revisions of, any of these publications do not apply. However, Parties to agreements biased on this Code are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. For undated references, the latest edition of the normative document referred to applies.

"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

"Wrought Aluminium and Aluminium Alloy Plates, sheets and Strips for General Engineering" GB/T 3880

"Compressed Asbestos Fibre Jointing" GB/T 3985

"Metallic Envelope Gaskets for Pipe Flanges" GB/T 15601

"Steel Pipe Flanges (PN designed)" HG/T 20592

"Specification for selection of Steel Pipe Flanges, Gaskets and Bolting (PN designated)" HG/T 20614

"Specifications of Flexible Graphite Sheets" JB/T 7758.2

3. Service conditions of the gaskets

3.0.1 The maximum operating temperature of the metal jacketed material shall be in accordance with those specified in Table 3.0.1.

Table 4.0.1 Gasket Dimension (mm)

Nominal dimension DN	Nominal pressure								Gasket thickness T
	PN25		PN40		PN63		PN100		
	Inside diameterD ₁	Outside diameterD ₂	Inside diameter D ₁	Outside diameter D ₂	Inside diameter D ₁	Outside diameter D ₂	Inside diameter D ₁	Outside diameter D ₂	
10	28	46	28	46	28	56	28	56	3
15	33	51	33	51	33	61	33	61	
20	45.5	61	45.5	61	43.5	72	45.5	72	
25	54	71	54	71	54	82	54	82	
32	61.5	82	61.5	82	61.5	88	61.5	88	
40	68	92	68	92	68	103	68	103	
50	77.5	107	77.5	107	77.5	113	77.5	119	
65	97.5	127	97.5	127	97.5	138	97.5	144	
80	109.5	142	109.5	142	109.5	148	109.5	154	
100	131.5	168	131.5	168	131.5	174	131.5	180	
125	156	194	156	194	156	210	156	217	
150	183.5	224	183.5	224	183.5	247	183.5	257	
200	237.5	284	244.5	290	244.5	309	244.5	324	
250	293.5	340	303.5	352	303.5	364	303.5	391	
300	353	400	368	417	368	424	368	458	
350	407	457	422	474	422	486	422	512	
400	458.5	514	488.5	546	488.5	543	488.5	572	
450	503	564	508	571	-	-	-	-	
500	561	624	561	628	-	-	-	-	
600	665.5	731	680.5	747	-	-	-	-	
700	765.5	833	-	-	-	-	-	-	
800	875.5	942	-	-	-	-	-	-	
900	975.5	1042	-	-	-	-	-	-	

5. Technical requirement

5.0.1 The metallic material of the coating shall comply with the requirements of relevant standards, and the hardness value shall be in accordance with those specified in Table 5.0.1.

6. Marking and Packaging

6.0.1 The gaskets shall be packed respectively according to the specifications and materials and a conformity certificate of production quality test shall be attached at delivery. Each gasket shall be labeled with the contents specified in Article 6.0.2.

6.0.2 Labeling content:

1 Standard No. (HG/T 20609)

2 Nominal dimension DN

3 Nominal pressure PN

4 Code name of the metallic material for clad (see the provisions in Table 3.0.1 of this standard).

5 Filling material

6.0.3 Marking illustration:

Nominal dimension: DN500, nominal pressure: PN25, metal cladding material: 0Cr18Ni9, filling material: XB450 paronite metal jacketed gasket, it shall be labeled as: HG/T 20609 metal jacketed gasket 500-25 304/XB450

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