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**Professional Standard of the People's Republic of China**

HG/T 20623-2009

Replace HG 20623-1997

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## 大直径钢制管法兰 (Class 系列)

**Large Diameter Steel Pipe Flanges**

**(Class Designated)**

**Issued on Feb 05, 2009**

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

## Large Diameter Steel Pipe Flanges (Class Designated)

### 1. Scope

1.0.1 This Standard specifies the nominal dimension, pressure nominal, material, pressure-temperature rating, type and dimension, seal surface, tolerance and label of large diameter steel pipe flange (Class designated).

1.0.2 This standard is applicable to large diameter welding steel pipe flange and blind flange with pressure nominal Class150 (PN20)~Class 900(PN 420). The pressure nominal rate of flange shall adopt Class, including the following four rates: Class150、Class300、Class600、Class900。

1.0.3 This standard includes large diameter steel pipe flanges of dimension A and B series, clear-cut label is required when selecting.

1.0.4 The applicative steel pipe nominal dimension DN and steel pipe external diameter of this standard shall conform to table 1.0.4.

**Table 1.0.4 Nominal diameter and steel pipes O.D.**

Nominal dimension	DN	650	700	750	800	850	900	950	1000		
	NPS	26	28	30	32	34	36	38	40		
Steel pipe O.D. (mm)		660	711	762	813	864	914	965	1016		
Nominal dimension	DN	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
	NPS	42	44	46	48	50	52	54	56	58	60
Steel pipe O.D. (mm)		1067	1118	1168	1219	1270	1321	1372	1422	1473	1524

1.0.5 This appendix could also be applied to accessory and equipment parts of valve, pump, chemical machinery and pipeline that adopt jacket flange as the connection.

1.0.6 This standard does not include material selecting principle under special fluid project condition.

## 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.

- GB/T 152.4 Fasteners-Counterbores for hexagon bolts and nuts
- HG/T 20615 Steel Pipe Flange (Class Designated)
- HG/T 20627 Non-metallic flat gaskets for use with steel pipe flanges (Class designated)
- HG/T 20628 PTFE envelope gaskets for use with steel pipe flanges (Class designated)
- HG/T 20630 Metal jacketed gaskets for use with steel pipe flanges (Class designated)
- HG/T 20631 Spiral wound gaskets for use with steel pipe flanges (Class designated)
- HG/T 20632 Covered serrated metal gaskets for use with steel pipe flanges (Class designated)
- HG/T 20633 Metallic ring joint gaskets for use with steel pipe flanges (Class designated)
- HG/T 20634 Metallic ring joint gaskets for use with steel pipe flanges (Class designated)
- HG/T 20635 Specification for selection of steel pipe flanges gaskets and bolting (Class designated)
- JB 4726 Carbon and Low-alloy Steel Forgings for Pressure Vessels
- JB 4727 Low-alloy Steel Forgings for Low Temperature Pressure Vessels
- JB 4728 Stainless Steel Forgings for Pressure Vessels"

### 3. Flange Types and Sealing Face

#### 3.1 Flange types

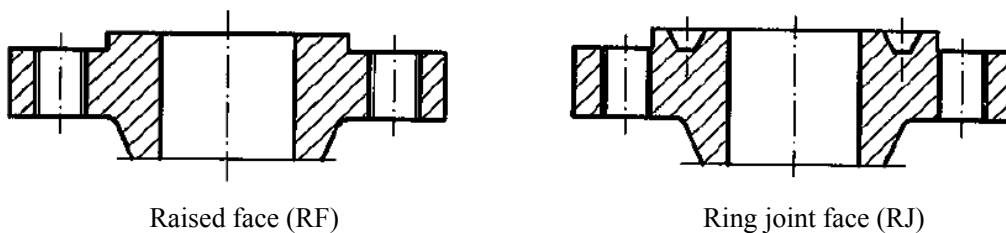
Flange types and applicative nominal dimension and nominal pressure shall be in accordance with Table 3.1.

**Table 3.1 Large diameter Flange types and scope of application**

Flange types		WN and BL							
Nominal dimension		Class (PN)				Class (PN)			
		A designated				B designated			
DN	NPS	150 (20)	300 (50)	600 (110)	900 (150)	150 (20)	300 (50)	600 (110)	900 (150)
650	26	×	×	×	×	×	×	×	×
700	28	×	×	×	×	×	×	×	×
750	30	×	×	×	×	×	×	×	×
800	32	×	×	×	×	×	×	×	×
850	34	×	×	×	×	×	×	×	×
900	36	×	×	×	×	×	×	×	×
950	38	×	×	×	×	×	×	—	—
1000	40	×	×	×	×	×	×	—	—
1050	42	×	×	×	—	×	×	—	—
1100	44	×	×	×	—	×	×	—	—
1150	46	×	×	×	—	×	×	—	—
1200	48	×	×	×	—	×	×	—	—
1250	50	×	×	×	—	×	×	—	—
1300	52	×	×	×	—	×	×	—	—
1350	54	×	×	×	—	×	×	—	—
1400	56	×	×	×	—	×	×	—	—
1450	58	×	×	×	—	×	×	—	—
1500	60	×	×	×	—	×	×	—	—

#### 3.2 Flange seal surface

3.2.1 The seal surface modes of a dimension series large diameter flange are raised surface (RF) and ring joint face (RJ). The seal surface mode of B dimension series large diameter flange is raised face (RF) (see figure 3.2.1).



**Figure 3.2.1 Sealing face types of flange**

3.2.2 Applicable scope of sealing face types of flange shall be in accordance with Table 3.2.2.

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