

HG

Professional Standard of the People's Republic of China

HG/T 20615-2009

Replace HG 20615~20622-1997, HG 20624~20626-1997

钢制管法兰

(Class 系列)

Steel Pipe Flanges

(Class Designated)

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Republic of China**

Steel Pipe Flanges (Class Designated)

1. General

1.0.1 This standard specifies the dimension nominal, pressure nominal, material, pressure-temperature rated value, flange type and dimension, sealing surface, tolerance and marks.

1.0.2 The standard applies to pressure nominal Class150 (PN20) ~ Class2500 (PN420) steel pipe flange and flange cover. Flange pressure nominal grade adopts Class to indicate, and it includes six grades as follows: Class 150, Class300, Class600, Class900, Class500, Class2500.

Table 1.0.2 Nominal pressure class table of flange

Class	PN	Class	PN
Class150	PN20	Class900	PN150
Class300	PN50	Class1500	PN260
Class600	PN110	Class2500	PN420

1.0.3 The dimension nominal DN and O.D. of steel pipe in this Standard shall be in accordance with Table 1.0.3.

Table 1.0.3 Nominal dimension and steel pipe O.D.

Nominal dimension	DN	15	20	25	32	40	50	65	80	100	
	NPS	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	
Steel pipe O.D.		21.3	26.9	33.7	42.4	48.3	60.3	76.1	88.9	114.3	
Nominal dimension	DN	125	150	200	250	300	350	400	450	500	600
	NPS	5	6	8	10	12	14	16	18	20	24
Steel pipe O.D.		139.7	168.3	219.1	273.0	323.9	355.6	406.4	457	508	610

1.0.4 The standard also applies to adopt flange to connect with valve, pump, chemical machinery, pipe accessories and equipment spare parts.

1.0.5 The standard does not include material selection principle under special fluid media state

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 plates and strips of carbon structural steels and high strength low alloy structural steels" GB/T 3274
- "Low alloy steel plates for low temperature pressure vessels" GB 3531
- "Hot rolled stainless steel plate sheet and strip" GB/T 4237
- "Pipe Threads with 55 Degree Thread Angle where Pressure-tight Joints are Made on the Threads--Part 2: Taper Internal and External Threads" GB/T 7306.2
- "General Purpose Industrial Valves-Specification of Carbon Steel Forgings" GB/T 12228
- "General Purpose Industrial Valves-Specification of Carbon Steel Castings" GB/T 12229
- "General Purpose Industrial Valve—Specification of Stainless Steel Castings" GB/T 12230
- "Pipe Threads with the Thread Angle of 60 Degrees where Pressure-tight Joints are made on the Threads" GB/T 12716
- "Steel Castings for Pressure Purposes" GB/T 16253
- "Dimension Selection Series of Seamless and Welded Steel Pipe for Chemical Industry Piping" HG/T 20553
- "Non-metallic flat gaskets for use with steel pipe flanges (Class designated)" HG/T 20627
- "PTFE envelope gaskets for use with steel pipe flanges (Class designated)" HG/T 20628
- "Metal jacketed gaskets for use with steel pipe flanges (Class designated)" HG/T 20630
- "Spiral wound gaskets for use with steel pipe flanges (Class designated)" HG/T 20631
- "Covered serrated metal gaskets for use with steel pipe flanges (Class designated)" HG/T 20632
- "Metallic ring joint 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
- "Specification for selection of steel pipe flanges gaskets and bolting (Class designated)" HG/T 20635
- "Carbon and Low-alloy Steel Forgings for Pressure Vessels" JB 4726
- "Low-alloy Steel Forgings for Low Temperature Pressure Vessels" JB 4727
- "Stainless Steel Forgings for Pressure Vessels" JB 4728
- "Nondestructive Testing of Pressure Vessels" JB/T 4730
- "Specification for Steel Casting for Power Station Valves" JB/T 5263
- "Technical Specification for Low Temperature Service Steel Casting for Valves" JB/T 7248

3. Flange Type and Flange Seal Contact Face

3.1 Flange type

3.1.1. The flange type includes: slip-on neck flange (SO), welding neck flange (WN), integral flange (IF), socket welding flange (SW), thread flange (TH), butt welding ring loose flange (LF/SE), Long welding neck flange (LWN) and blind flange (BL).

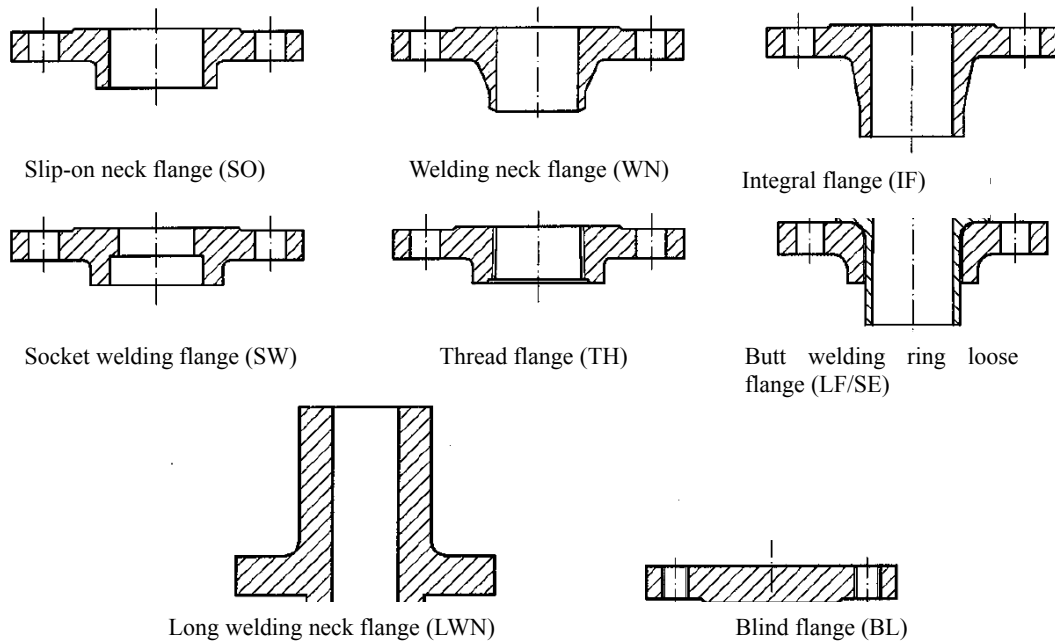


Figure 3.1.1 Flange types

Table 3.1.1 Flange types designation

Flange types designation	Flange type	Flange types designation	Flange type
SO	Slip-on neck flange	SW	Socket welding flange
WN	Welding neck flange	Th	Thread flange
LWN	Long welding neck flange	LF/SE	Butt welding ring loose flange
IF	Integral flange	BL	Blind flange

3.1.2 Orifice flange for flow rate should be in accordance with the regulations of Appendix A of the Standard.

3.1.3 Clip flange for full-clip pipeline should be in accordance with the regulations of Appendix B of the Standard.

3.1.4 The nominal dimension and pressure nominal of each type flange should be in accordance with the regulations of Table 3.1.4

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