Nickel Alloy Flange

Standards

ASTM B462, ASME B16.5, MSS SP-25

Overview

As a Chinese leading nickel alloy pipe fitting supplier, PIPING produces and manufactures various nickel alloy flanges. Flanges are fittings that connect pipes to each other and are used to connect pipe ends. The nickel alloy flange produced by PIPING can be well matched with various nickel alloy pipes to ensure the stability and firmness of the connection. So if you are interested in our nickel alloy pipes, our nickel alloy flanges should also be your best choice. Nickel alloy flanges have excellent corrosion resistance and high temperature resistance, which are very suitable for operations in extreme environments. According to different shapes and functions, our nickel alloy flanges are divided into threaded flange, slip-on welding flange, blind flange, socket welding flange, lapped flange and welding neck flange. PIPING supplies different nickel alloy grades: Monel(400, 401, K-500, etc), Inconel(600, 601, 625, 718, etc), Incoloy(800, 825, A-286, etc) and Hastelloy(B-2, C-22, C-276, etc).

Our products have higher quality and lower price. Our sales are more professional and responsible. Please don't hesitate to contact us!

Specifications

- NPS: ½ ~ 48"
- SCH: 5 ~ XXS
- Classification: TH (THreaded) flange, SO (Slip-On Welding) flange, BL (Blind) flange, SW (Socket Welding) flange, LJ (Lapped) flange, WN (Welding Neck) flange
- Pressure Level: Class 150 - Class 2500

Features

Excellent corrosion resistance and high temperature resistance, complete size range, bright finish, optional types.

Applications

1. Seamless water pipes and steam pipes for power plant water supply
2. Sea water exchanger and evaporator
3. Sulfuric acid and hydrochloric acid environment
4. Crude oil distillation
5. Pump shaft and propeller of equipment used in sea water
6. The nuclear industry is used to manufacture equipment for uranium extraction and isotope separation
7. Pumps and valves used in hydrochloric acid production equipment
8. Outer protective layer of corrosion-resistant cable

Manufacturing Process

Plate Flange

Plate → Shear → Press → Inspection → Lathe → Drilling

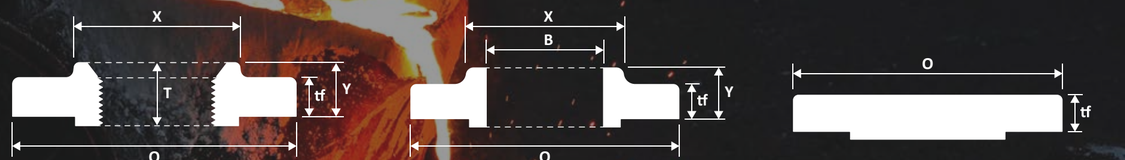
Cleaning → Flange → Inspection → Analytic → Marking → Packing & Shipping

Forged Flange

Billet → Bandsaw Cutting → Forging → Heat Treatment → Inspection → Lathe → Drilling

Cleaning → Flange → Inspection → Analytic → Marking → Packing & Shipping

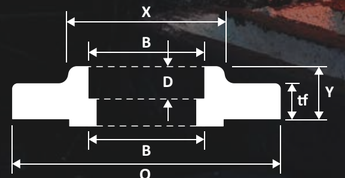
Drawing



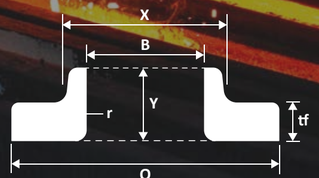
Threaded

Slip-On Welding

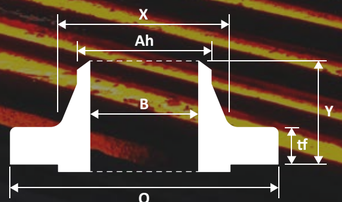
Blind



Socket Welding(NPS 1/2 to 3 Only)



Lapped



Welding Neck

Dimensions (Class 150)

Nominal Pipe Size, NPS	Outside Diameter of Flange, O	Minimum Thickness of Flange, tf	Minimum Thickness Lap Joint, tf	Diameter of Hub, X	Hub Diameter Beginning of Chamfer Welding Neck, Ah	Nominal Pipe Size, NPS			Minimum Thread Length Threaded, T	Outside Diameter of Flange, O			Corner Bore Radius of Lapped Flange and Pipe, r	Depth of Socket, D
						Threaded/ Slip-on/ Socket Welding, Y	Lapped, Y	Welding Neck, Y		Minimum Slip-on/ Socket Welding, B	Minimum Lapped, B	Welding Neck/ Socket Welding, B		
1/2	90	9.6	11.2	30	21.3	14	16	46	16	22.2	22.9	15.8	3	10
3/4	100	11.2	12.7	38	26.7	14	16	51	16	27.7	28.2	20.9	3	11
1	110	12.7	14.3	49	33.4	16	17	54	17	34.5	34.9	26.6	3	13
5/4	115	14.3	15.9	59	42.2	19	21	56	21	43.2	43.7	35.1	5	14
3/2	125	15.9	17.5	65	48.3	21	22	60	22	49.5	50.0	40.9	6	16
2	150	17.5	19.1	78	60.3	24	25	62	25	61.9	62.5	52.5	8	17
5/2	180	20.7	22.3	90	73.0	27	29	68	29	74.6	75.4	62.7	8	19
3	190	22.3	23.9	108	88.9	29	30	68	30	90.7	91.4	77.9	10	21
7/2	215	22.3	23.9	122	101.6	30	32	70	32	103.4	104.1	90.1	10	...
4	230	22.3	23.9	135	114.3	32	33	75	33	116.1	116.8	102.3	11	...
5	255	22.3	23.9	164	141.3	35	36	87	36	143.8	144.4	128.2	11	...
6	280	23.9	25.4	192	168.3	38	40	87	40	170.7	171.4	154.1	13	...
8	345	27.0	28.6	246	219.1	43	44	100	44	221.5	222.2	202.7	13	...
10	405	28.6	30.2	305	273.0	48	49	100	49	276.2	277.4	254.6	13	...
12	485	30.2	31.8	365	323.8	54	56	113	56	327.0	328.2	304.8	13	...
14	535	33.4	35.0	400	355.6	56	79	125	57	359.2	360.2	...	13	...
16	595	35.0	36.6	457	406.4	62	87	125	64	410.5	411.2	...	13	...
18	635	38.1	39.7	505	457.0	67	97	138	68	461.8	462.3	...	13	...
20	700	41.3	42.9	559	508.0	71	103	143	73	513.1	514.4	...	13	...
24	815	46.1	47.7	663	610.0	81	111	151	83	616.0	616.0	...	13	...

FAQ

Q What kinds of flanges are there?

A TH (THreaded) flange, SO (Slip-On Welding) flange, BL (Blind) flange, SW (Socket Welding) flange, LJ (Lapped) flange, WN (Welding Neck) flange.

Q What are the main grades of nickel alloy flanges?

A Monel 400, Monel K-500, Inconel 600, Inconel 625, Inconel 718, Incoloy 800, Incoloy 825, Hastelloy B-3, Hastelloy C-276, etc. Special grades can also be customized according to your needs.

Q Do you have nickel alloy pipes or tubes?

A Yes, we have seamless pipes & tubes, welded pipes & tubes, capillary tubes, etc. For more information, please refer to our products.

Q Where's your main market?

A South America, North America, Asia, Middle East, Europe, Africa etc.

Q What is your standard packaging?

A For flanges with smaller dimensions, we will individually pack each flange in a plastic bag, and finally put it in a wooden case for protection. For larger flanges, we stack them in a wooden case and put cushioning materials between every two flanges to protect them.

Package

Plastic Bag **Wooden Case**

At PIPING, all our nickel alloy flanges are packaged in accordance with international standards to prevent any possible damage or loss. For flanges with smaller dimensions, we will individually pack each flange in a plastic bag, and finally put it in a wooden case for protection. For larger flanges, we stack them in a wooden case and put cushioning materials between every two flanges to protect them. Please note that wooden casees may incur additional costs, not only their own costs, but also increase freight costs, especially for air transportation. In order to enhance the customer experience, we also provide special packaging according to your special requirements.

Logistics

By Sea **By Air**

Sea transportation is the most popular for most orders, hence regarded as the default transportation mode. Accordingly, quotation is thus made as per FOB, CFR, CIF etc.. For urgent demand, we can also offer as per air transportation.

PIPING