



PIPING SYSTEM PTE LTD



Nickel Alloy  
Elbow



Standards

ASTM B366, ASTM B366M, ASTM B462, ASME B16.9, ASME B16.11, MSS SP-25, MSS SP-43

Overview

As a leading nickel alloy pipe & tube supplier, PIPING produces and manufactures nickel alloy elbow to match the pipes & tubes. Nickel alloy elbow is a kind of pipe fittings manufactured by forming nickel alloy welded pipes. In the pipeline system, the elbow has the function of changing the direction of the pipeline. Its important role determines that it is one of our best-selling fitting products. Nickel alloy elbows can be divided into 45° elbows, 90° elbows and 180° elbows according to their shapes. As a device for connecting pipelines, the quality of nickel alloy elbows plays an important role. Therefore, if you are a customer of our nickel alloy pipes & tubes, our nickel alloy elbows will be your best choice.

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). The outer diameter of our nickel alloy elbow ranges from 21.3mm to 1219mm. Customized size is also available.

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

Features

Corrosion resistance, high temperature resistance, fine arc, white surface.

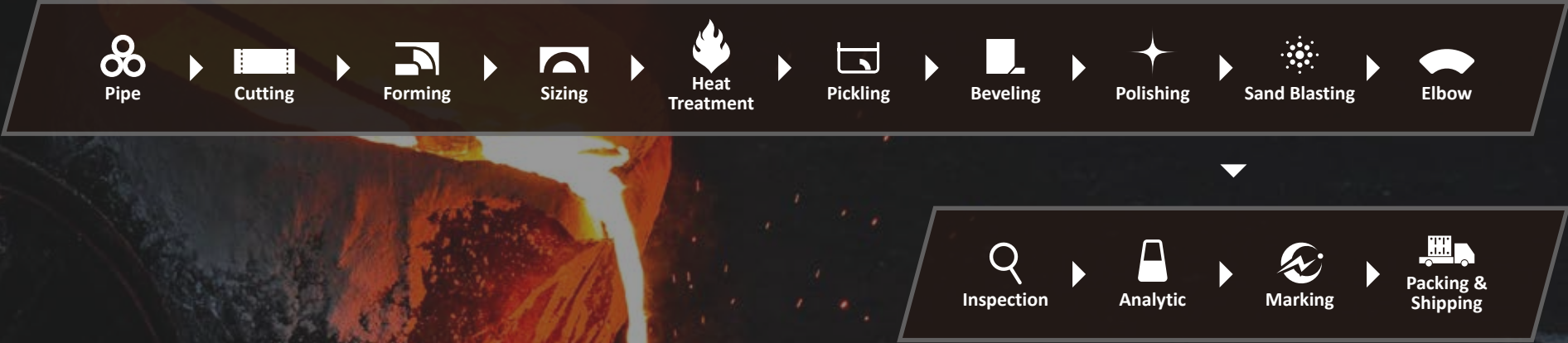
Specifications

- NPS: ½ ~ 48"
- SCH: 5 ~ XXS
- Classification: 45° elbow, 90° elbow, 180° elbow, long radius elbow, short radius elbow, long radius 180° elbow, short radius 180° elbow, reducing elbow, base elbow, left/right hand elbow, double branch elbow, quick elbow, threaded elbow, sanitary elbow
- Delivery State: Pushing, pressing, forging and casting

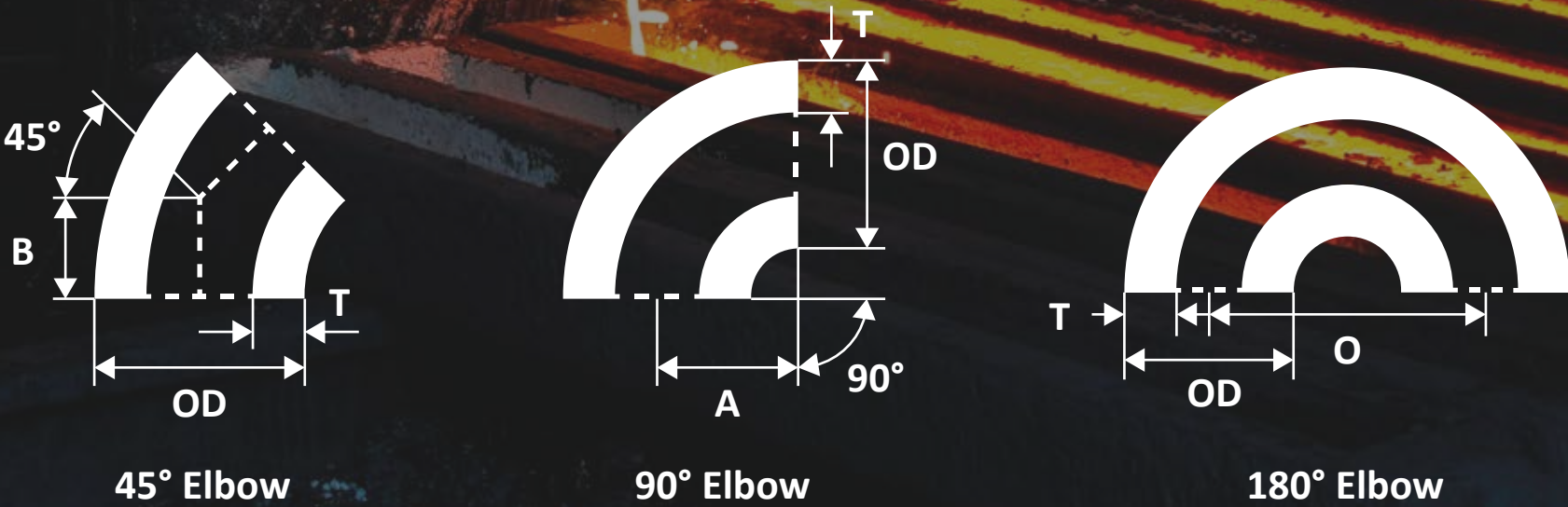
Applications

1. Thermowells in corrosive atmosphere
2. Production of vinyl chloride monomer: resistance to chlorine, hydrogen chloride, oxidation and carbonation corrosion
3. Uranium oxidation and conversion to hexafluoride: resistance to hydrogen fluoride corrosion
4. The production and use of corrosive alkali metals, especially the environment where sulfides are used
5. Use the chlorine method to make titanium dioxide
6. Production of organic or inorganic chlorides and fluorides: resistance to corrosion by chlorine and fluorine
7. Nuclear reactor
8. Retorts and parts in heat treatment furnaces, especially in carbonization and nitriding atmospheres
9. Catalytic regenerator in petrochemical production

Manufacturing Process



Drawing



Dimensions

Long Radius Elbows			
Nominal Pipe Size(NPS)	Outside Diameter at Bevel, mm(in.)	Center-to-End, mm(in.)	
		90-deg Elbows, A	45-deg Elbows, B
1/2	21.3(0.84)	38(1.50)	16(0.62)
3/4	26.7(1.05)	38(1.50)	19(0.75)
1	33.4(1.32)	38(1.50)	22(0.88)
5/4	42.2(1.66)	48(1.88)	25(1.00)
3/2	48.3(1.90)	57(2.25)	29(1.12)
2	60.3(2.38)	76(3.00)	35(1.38)
5/2	73.0(2.88)	95(3.75)	44(1.75)
3	88.9(3.50)	114(4.50)	51(2.00)
7/2	101.6(4.00)	133(5.25)	57(2.25)
4	114.3(4.50)	152(6.00)	64(2.50)
5	141.3(5.56)	190(7.50)	79(3.12)
6	168.3(6.62)	229(9.00)	95(3.75)
8	219.1(8.62)	305(12.00)	127(5.00)
10	273.0(10.75)	381(15.00)	159(6.25)
12	323.8(12.75)	457(18.00)	190(7.50)
14	355.6(14.00)	533(21.00)	222(8.75)
16	406.4(16.00)	610(24.00)	254(10.00)
18	457.0(18.00)	686(27.00)	286(11.25)
20	508.0(20.00)	762(30.00)	318(12.50)

22	559.0(22.00)	838(33.00)	343(13.50)
24	610.0(24.00)	914(36.00)	381(15.00)
26	660.0(26.00)	991(39.00)	406(16.00)
28	711.0(28.00)	1067(42.00)	438(17.25)
30	762.0(30.00)	1143(45.00)	470(18.50)
32	813.0(32.00)	1219(48.00)	502(19.75)
34	864.0(34.00)	1295(51.00)	533(21.00)
36	914.0(36.00)	1372(54.00)	565(22.25)
38	965.0(38.00)	1448(57.00)	600(23.62)
40	1016.0(40.00)	1524(60.00)	632(24.88)
42	1067.0(42.00)	1600(63.00)	660(26.00)
44	1118.0(44.00)	1676(66.00)	695(27.38)
46	1168.0(46.00)	1753(69.00)	727(28.62)
48	1219.0(48.00)	1829(72.00)	759(29.88)
Short Radius Elbows			
Nominal Pipe Size(NPS)	Outside Diameter at Bevel, mm(in.)	Center-to-End, A, mm(in.)	
1	33.4(1.32)	25(1.00)	
5/4	42.2(1.66)	32(1.25)	
3/2	48.3(1.90)	38(1.50)	
2	60.3(2.38)	51(2.00)	
5/2	73.0(2.88)	64(2.50)	
3	88.9(3.50)	76(3.00)	
7/2	101.6(4.00)	89(3.50)	
4	114.3(4.50)	102(4.00)	

5	141.3(5.56)	127(5.00)
6	168.3(6.62)	152(6.00)
8	219.1(8.62)	203(8.00)
10	273.0(10.75)	254(10.00)
12	323.8(12.75)	305(12.00)
14	355.6(14.00)	356(14.00)
16	406.4(16.00)	406(16.00)
18	457.0(18.00)	457(18.00)
20	508.0(20.00)	508(20.00)
22	559.0(22.00)	559(22.00)
24	610.0(24.00)	610(24.00)

## Delivery State

Delivery State Choice		Surface Condition
Annealed		Pickled
		Polished
		Sand Blasted

- Note:
1. If you require different deliver state than the above listed, kindly confirm with us.
  2. In case of any enquiry or order, please kindly let us know any extra requirement not indicated here.

## Package



Plastic Bag



Wooden Case



Wooden Pallet

At PIPING, all our nickel alloy elbows are packed in accordance with international standards to prevent any possible damage or loss. For smaller elbows, we will pack each elbow individually with plastic bag and finally put it in a wooden box for protection. For larger elbows, we will use thick woven plastic bags to individually pack the finished products and place them on wooden pallets for further protection. Please note that wooden cases 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.

## FAQ

Q

Can you polish the nickel alloy elbows?

Yes, if you have the corresponding needs, we will perform internal and external polishing.

A

Q

What kinds of elbows are there?

45° elbow, 90° elbow, 180° elbow, long radius elbow, short radius elbow, long radius 180° elbow, short radius 180° elbow, reducing elbow, base elbow, left/right hand elbow, double branch elbow, quick elbow, threaded elbow, sanitary elbow.

A

Q

What are the main grades of nickel alloy elbow?

Monel 400, Monel K-500, Inconel 600, Inconel 625, Inconel 718, Incoloy 800, Incoloy 825, Hastelloy B-3, Hastelloy C-276, etc.

A

Q

Where's your main market?

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

A

Q

What is your standard packaging?

For smaller elbows, we will pack each elbow individually with plastic bag, and finally put it in wooden case for protection. For larger elbows, we will use thick woven plastic bags to individually pack the finished products and place them on wooden pallets for further protection.

A