



# Việt Sing Metal

Cung cấp vật liệu ống thép chất  
lượng cao

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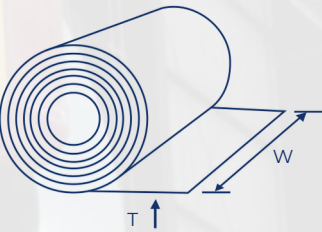
Việt Sing Metal

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Stainless Steel Coil

Specification: ASTM A240/A240M,  
A480/A480M, JIS G4304/G4305, EN 10028-7/  
10088-2



Product Type	Finish	Grade	Thicknes(mm)	Widthe(mm)								Other Size	Application
				Main Size									
				750	914	1000	1219	1250	1500	1524	2000		
Coil	No.1	304/L,316 L	$2.0 \leq t < 5.0$	☉		☉	☉	☉	☉	☉		Upon Request	Petro-chemical industry, Tanks.
			$5.5.0 \leq t \leq 10$	☉		☉	☉	☉	☉	☉	☉		
			$10.0 < t \leq 12.7$			☉	☉	☉	☉	☉	☉		
		430	$2.0 \leq t \leq 6.0$			☉	☉	☉	☉				
		409,439	$3.0 \leq t \leq 6.0$			☉	☉	☉	☉				
	2B	304L	$3.5 \leq t \leq 5.0$			☉	☉	☉	☉	☉			
		316L	$3.5 \leq t \leq 4.0$			☉	☉	☉	☉	☉			
		304/L, 316L	$4.76 \leq t \leq 6.0$						☉	☉			
	2B NO.4 HL SB	304L	$0.4 \leq t \leq 3.0$	☉	☉	☉	☉	☉	☉	☉		Strip: 25mm Above	Medical equipment, Food industry, Construction material, Kitchen utensils, BBQ grill.
		316L, 430	$0.5 \leq t \leq 3.0$	☉	☉	☉	☉	☉	☉	☉			
		409	$0.5 \leq t \leq 3.0$		☉	☉	☉	☉	☉	☉			
		439	$0.4 \leq t \leq 1.5$		☉	☉	☉	☉	☉	☉			
			$1.5 < t \leq 2.5$			☉	☉	☉	☉				
BA	304/L, 316L 430	$0.4 \leq t \leq 2.0$			☉	☉	☉	☉					
Remark				Feature 1.Oil base wet polished 3.PE Coating normal/ laser film Optional for Front/ Back side CR Coil: 1.0~10.0mts HR Coil: (1)Thickness 3.0~6.0 mm: 2~10 mts (3)Thickness 12.0~12.7 mm: 10~20mts Plate: 2~4mts 2.Both-sides polished available 4.Line-marking 5.Package weight (2)Thickness 7.0~10.0 mm: 5~20 mts Sheet: 1.25~2.2mts									

2D

A dull finish which results from cold rolling followed by annealing and descaling, and may perhaps get a final light roll pass through unpolished rolls. A 2D finish is used where appearance is not a concern.

BA

(Bright Anneal) The bright annealed mill surface is obtained by annealing the material under an atmosphere, so that scale is not produced on the surface.

Scotch Brite

It's a semi-dull finish with uniform grain, which is obtained using finer abrasives than No.4

No.1

A rough, dull surface, which results from hot rolling to the specified thickness, followed by annealing and descaling.

2B

A bright, cold-rolled finish resulting in the same manner as 2D finish, except that the annealed and descaled sheet received a final light roll pass through polished rolls. This is the general - purpose cold-rolled finish that can be used as is, or a preliminary step to polishing.

Brushed Finish

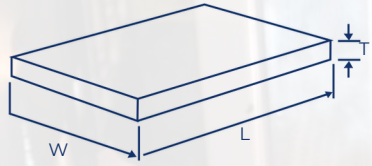
(No.3/No.4/No.5/No.6) This is a ground unidirectional finish obtained with 150/180/240/320 grit abrasive, which is characterized by parallel brushing lines, it is also known as Satin.



Stainless Steel Sheet/Plate

Specification:

ASTM A240/A240M, A480/A480M, JIS G4304/G4305, EN 10028-7/10088-2



Product Type	Finish	Grade	Thicknes(mm)	Widthe(mm)								Other Size	Application
				Main Size									
				75	914	1000	1219	1250	1500	1524	2000		
Sheet/ Plate	No.1	304/L,316L	$2.0 \leq t < 5.0$			⊙	⊙	⊙	⊙	⊙		Upon Request	Petro-chemical industry, Tanks.
			$5.0 \leq t \leq 12.7$			⊙	⊙	⊙	⊙	⊙	⊙		
			$12.7 < t \leq 30.0$			⊙	⊙		⊙	⊙			
			$t > 30.0$	Upon Request									
		430	$2.0 \leq t \leq 6.0$			⊙	⊙	⊙	⊙	⊙			
	409,439	$3.0 \leq t \leq 6.0$			⊙	⊙	⊙	⊙	⊙				
	2B	304L	$3.5 \leq t \leq 5.0$			⊙	⊙	⊙	⊙	⊙			
		316L	$3.5 \leq t \leq 4.0$			⊙	⊙	⊙	⊙	⊙			
		304/L, 316L	$4.76 \leq t \leq 6.0$						⊙	⊙			
	2B NO.4 NO.5 HL SB	304L	$0.4 \leq t \leq 3.0$	⊙	⊙	⊙	⊙	⊙	⊙	⊙		(1)Size Range : 71~15243 mm (2)71~800 mm Max. Thickness: 2.0mm	Medical equipment, Food industry, Construction material, Kitchen utensils, BBQ grill.
		316L, 430	$0.5 \leq t \leq 3.0$	⊙	⊙	⊙	⊙	⊙	⊙	⊙			
		409	$0.5 \leq t \leq 3.0$		⊙	⊙	⊙	⊙	⊙	⊙			
		439	$0.4 \leq t \leq 1.5$		⊙	⊙	⊙	⊙	⊙	⊙			
			$1.5 < t \leq 2.5$		⊙	⊙	⊙	⊙					
	BA	304/L, 316L 430	$0.4 \leq t \leq 2.0$		⊙	⊙	⊙	⊙					
	NO.8	304/L,316L	$0.6 \leq t \leq 2.0$				⊙	⊙					Construction material
Remark				Feature 1.Oil base wet polished 3.PE Coating normal/ laser film Optional for Front/ Back side Sheet: 1.25~2.2mts								2.Both-sides polished available 4.Line-marking 5.Package weight Plate: 2.0~4.0mts	

2D

A dull finish which results from cold rolling followed by annealing and descaling, and may perhaps get a final light roll pass through unpolished rolls. A 2D finish is used where appearance is not a concern.

BA

(Bright Anneal) The bright annealed mill surface is obtained by annealing the material under an atmosphere, so that scale is not produced on the surface.

Scotch Brite

It's a semi-dull finish with uniform grain, which is obtained using finer abrasives than No.4/NO.5/NO.6. This finish has smooth, soft and exquisite grains which has a low level of reflectivity and unidirectional texture.

No.1

A rough, dull surface, which results from hot rolling to the specified thickness, followed by annealing and descaling.

2B

(Mill Finish) A bright, cold-rolled finish resulting in the same manner as 2D finish, except that the annealed and descaled sheet received a final light roll pass through polished rolls. This is the general-purpose cold-rolled finish that can be used as is, or a preliminary step to polishing.

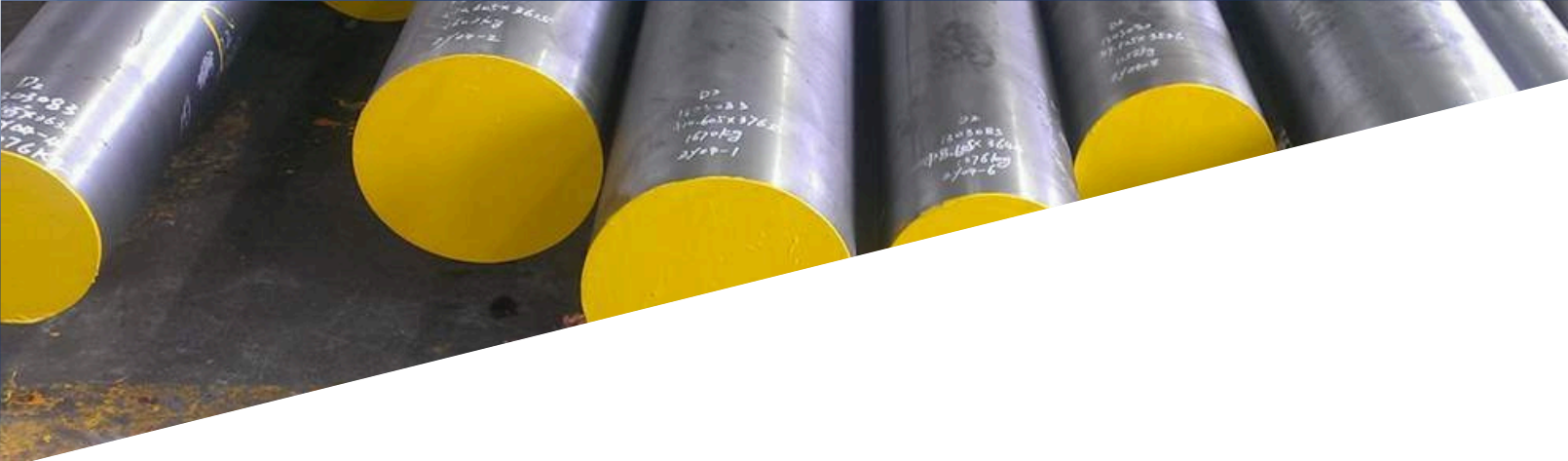
Brushed Finish

(No.3/No.4/No.5/No.6) This is a ground unidirectional finish obtained with 150/180/240/320 grit abrasive, which is characterized by parallel brushing lines, it is also known as Satin.

Hairline

Seemingly endless polishing lines extend uniformly along with the length of the coil give the hairline. It's a well-defined directional finish with long-grain and fine-line.





# Stainless Steel Bar

## Stainles Steel Hollow Section

Round Bar

1/16" thru 16"

Square Bar

1/8" thru 6"

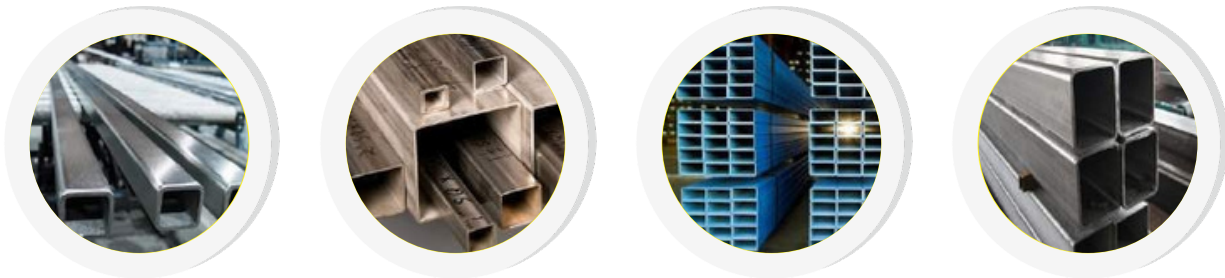
Hex Bar

1/8" thru 4"

Flat Bar

1/8 x 3/8" thru 4" x 8"

Product Series		
Classificatio	Standard Specifications	Grad
AUSTENITE CLASS	ASTM, DIN, JIS, GB200	201
		201H
		301
		304
		304L
		304Cu
		316
		316L
		316Ti
		316N
		317
		317L
Ferrite Class	ASTM, DIN, JIS, GB	321
		310S
Precipitate Hardening	ASTM, DIN, JIS, GB630	430
		430LX
Duplex	ASTM, DIN, JIS, GB329	
Other Grades	Tailor-made according to customer's requirements	



Description	Grade	Size	Height	Width	Thickness	Finishing	Standard Length
Stainless Square Hollow Section	304	10.0mm-150.0mm	-	-	1.2mm - 6.0mm	BA & HL	6M
	316 & 316L	75.0mm - 300.0mm					
Stainless Rectangular Hollow Section	304, 316 & 316L	-	10.0mm - 100.0mm	19.0mm - 200.0mm	1.2mm - 8.0mm	-	-

### Wall Thickness Tolerance of Stainless Steel Hollow Sections

NPS	DN	OD(mm)	Wall Thickness(mm)						
			0.6	1	1.6	2.5	4	6	8
3/4	20	26.67	0.07	0.11	0.18	0.28	0.45	0.67	0.89
1	25	33.4	0.09	0.14	0.23	0.36	0.57	0.84	1.11
1 1/4	32	42.16	0.11	0.18	0.29	0.45	0.71	1.06	1.40
1 1/2	40	48.26	0.12	0.21	0.33	0.51	0.82	1.21	1.61
2	50	60.3	0.16	0.26	0.41	0.64	1.02	1.52	2.01
3	80	88.9	0.23	0.38	0.61	0.95	1.50	2.24	2.96
4	100	114.3	0.29	0.49	0.78	1.22	1.93	2.88	3.80
6	150	168.28	0.43	0.72	1.15	1.79	2.85	4.24	5.60
8	200	219.08	0.56	0.94	1.50	2.33	3.71	5.52	7.29
10	250	273.05	0.70	1.17	1.87	2.91	4.62	6.87	19.09
12	300	323.85	0.83	1.39	2.22	3.45	5.48	8.15	10.78
14	350	355.6	0.92	1.52	2.43	3.79	6.02	8.95	11.84
16	400	406.4	1.05	1.74	2.78	4.33	6.88	10.23	13.53



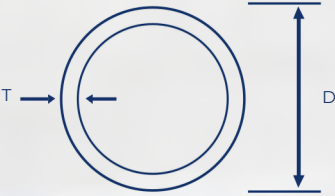


# Stainless steel Seamless Pipe

Sizes:1/8" thru 24" Grade:304H, 316H, 309/S, 310/S, 317/L, 321/H, 347/H, 904L, 330,

254SMO, 410.

Specifications: ASTM A312, ASTM A358, ASTM A813, ASTM A814



## Stainless Steel Seamless Pipe Tolerances:

NPS Designator	Permissible Variations in Outside Diameter	
	Over	Under
1/8 to 1-1/2 inch	1/64 (0.015)	1/32 (0.031)
Over 1-1/2 to 4 inch	1/32 (0.031)	1/32 (0.031)
Over 4 to 8 inch	1/16 (0.062)	1/32 (0.031)
Over 8 to 18 inch	3/23 (0.093)	1/32 (0.031)

## Nominal Wall Thickness:

NPS Designator	Outside Diameter in.	Schedule 10S in.	Schedule 40S in.	Schedule 80S in.	Schedule 160 in.	Schedule XX in.
1/4	0.540	0.065	0.088	0.119	0.188	
3/8	0.675	0.065	0.091	0.126	0.218	
1/2	0.840	0.083	0.109	0.147	0.250	0.294
3/4	1.050	0.083	0.113	0.154	0.250	0.308
1.0	1.315	0.109	0.133	0.179	0.281	0.358
1 1/4	1.660	0.109	0.140	0.191	0.343	0.382
1 1/2	1.900	0.109	0.145	0.200	0.375	0.400
2	2.375	0.109	0.154	0.218	0.438	0.436
2 1/2	2.875	0.120	0.203	0.276		0.552
3	3.500	0.120	0.216	0.300	0.534	0.600
3 1/2	4.000	0.120	0.226	0.318	0.625	0.636
4	4.500	0.120	0.237	0.337	0.719	0.674
5	5.563	0.134	0.258	0.375	0.906	0.750
6	6.625	0.134	0.280	0.432	1.125	0.864
8	8.625	0.148	0.322	0.500	1.312	0.875
10	10.750	0.165	0.365	0.500	1.406	
12	12.750	0.180	0.375	0.500	1.594	
14	14.000	0.188	0.375	0.500		
16	16.000	0.188	0.375	0.500		



# Stainless Steel Welded Pipe

Sizes:1 1/8" thru 36" Grade:304, 304L,304H, 316, 361L,316H, 309/S, 310/S, 317/L, 321/H, 347/H, 410, 410S, Duplex 2205, Duplex 2507  
Specifications: ASTM A312, ASTM A358, ASTM A240, ASTM A778

## Stainless Steel Seamless Pipe Tolerances:

NPS Designator	Permissible Variations in Outside Diameter	
	Over	Under
1/8 to 1-1/2 inch	1/64 (0.015)	1/32 (0.031)
Over 1-1/2 to 4 inch	1/32 (0.031)	1/32 (0.031)
Over 4 to 8 inch	1/16 (0.062)	1/32 (0.031)
Over 8 to 18 inch	3/23 (0.093)	1/32 (0.031)

## Nominal Wall Thickness:

NPS Designator	Outside Diameter in.	Schedule 10S in.	Schedule 40S in.	Schedule 80S in.	Schedule 160 in.	Schedule XX in.
1/4	0.540	0.065	0.088	0.119	.0188	
3/8	0.675	0.065	0.091	0.126	0.218	
1/2	0.840	0.083	0.109	0.147	0.250	0.294
3/4	1.050	0.083	0.113	0.154	0.250	0.308
1.0	1.315	0.109	0.133	0.179	0.281	0.358
1 1/4	1.660	0.109	0.140	0.191	0.343	0.382
1 1/2	1.900	0.109	0.145	0.200	0.375	0.400
2	2.375	0.109	0.154	0.218	0.438	0.436
2 1/2	2.875	0.120	0.203	0.276		0.552
3	3.500	0.120	0.216	0.300	0.534	0.600
3 1/2	4.000	0.120	0.226	0.318	0.625	0.636
4	4.500	0.120	0.237	0.337	0.719	0.674
5	5.563	0.134	0.258	0.375	0.906	0.750
6	6.625	0.134	0.280	0.432	1.125	0.864
8	8.625	0.148	0.322	0.500	1.312	0.875
10	10.750	0.165	0.365	0.500	1.406	
12	12.750	0.180	0.375	0.500	1.594	
14	14.000	0.188	0.375	0.500		
16	16.000	0.188	0.375	0.500		





# Geometries of Stainless Steel Pipe

## Eccentricity

E is half of the difference between biggest and smallest wall thickness (WT) values in one cross section.

In terms of mm:

However, eccentricity is expressed as a percentage of the mean wall thickness of this cross section

D0 is the arithmetic mean between the smallest and biggest tube diameter on any one tube circumference.

If minimum wall thickness is required variations are allowed on the plus side only!

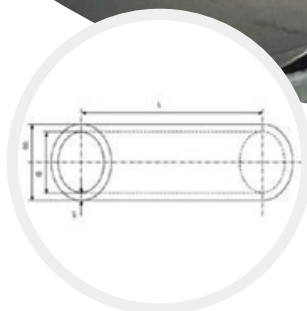
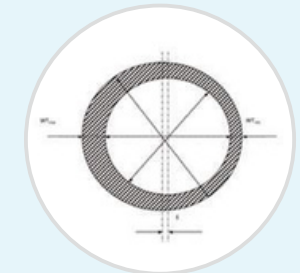
As a percentage of the mean diameter this is: Ovality must not be confused with eccentricity. WTmax WTmin

D0 Dmax Dmin

$$E \quad E(\text{mm}) = \text{WTmax} - \text{WTmin}$$

$$2 \quad E(\%) = \frac{\text{WTmax} - \text{WTmin}}{\text{WTmax} + \text{WTmin}} \times 100$$

$$\text{WTmax} + \text{WTmin}$$



## Dimension

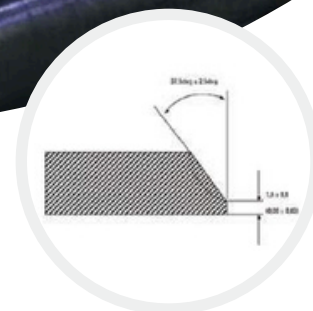
OD... Outside Diameter

ID... Inside Diameter

WT... Wall Thickness

L... Length

If minimum wall thickness is required variations are allowed on the plus side only!



## Buttwelding ends

ANSI / ASME B16.25-2007

Fig. 4 Weld Bevel Details for GTAW Root Pass

[WT > 3mm (0,12 in.) to 10mm (0,38 in.),

Inclusive]

GENERAL NOTES:

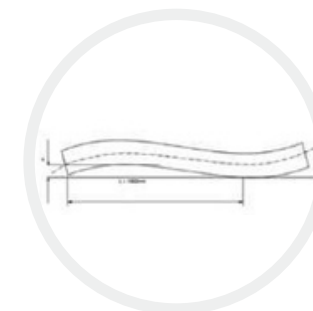
a) This detail applies for gas tungsten arc

welding (GTAW) of the root pass

where nominal thickness is over 3mm

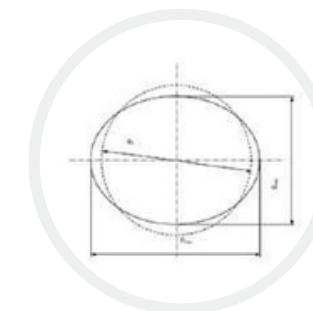
b) Linear dimensions are in millimeters with

inch values in parentheses



## Straightness

Standard pipes and tubes are supplied straightened to the eye: for special applications the permissible deviation from the straight line may be agreed between purchaser and tube manufacturer; the maximum permissible deviation from the straight line related to the length of measurement L is to be indicated, e.g. 1mm/1000mm.



## Mean diameter outside or inside

D0 is the arithmetic mean between the smallest and biggest tube diameter on any one tube circumference. If minimum wall thickness is required variations are allowed on the plus side only!



# Stainless Steel Flange

## Stainless Steel Weld Neck Flanges

### Applications

- ◆Chemical Industry
- ◆Petrochemical Industry



**Available Grades :** F 304, 304L, 304H, 316, 316L, 316Ti, 310, 310S, 321, 321H, 317, 347, 347H, 904L.

**Available Stainless Steel :** ASTM A 182, A 240

**Available Size :** 1/8" NB TO 48"NB. **Available Class :** 150#, 300#, 600#, 900#, 1500# &2500 #.

## Stainless Steel Slip On Flanges

### Applications

- ◆Cement Industry
- ◆Petrochemical Industry
- ◆Ship Building Industry
- ◆Sugar Mills
- ◆Chemical Industry



**Available Grades :** F 304, 304L, 304H, 316, 316L,316Ti, 310, 310S, 321, 321H, 317, 347, 347H, 904L

**Available Sizes :** 1/8" NB TO 48"NB. **Available Stainless Steel Standards :** ASTM A 182, A 240 **Available Class :** 150#, 300#, 600#, 900#, 1500# & 2500 #.

## Stainless Steel Blind Flanges

### Applications

- ◆ Used to provide positive closer on the ends of pipes, valves or equipment nozzles



**Available Grades :** F 304, 304L, 304H, 316, 316L, 316Ti, 310, 310S, 321, 321H, 317, 347, 347H, 904L.

**Austenitic Stainless Steel Standards :** ASTM A 182, A 240 **Available Sizes :** 1/8" NB TO 48"NB. **Available Class :** 150#, 300#, 600#, 900#, 1500# & 2500 #

## Stainless Steel Lap Joint Flanges

### Applications

- ◆Steel plants
- ◆Heavy Pumps
- ◆Sugar mills
- ◆Distilleries
- ◆Cement Industry
- ◆Construction Industry
- ◆Petrochemical Industry



**Available Grades :** F 304, 304L, 304H, 316, 316L, 316Ti, 310, 310S, 321, 321H, 317, 347, 347H, 904L.

**Austenitic Stainless Steel Standards :** ASTM A 182, A 240 **Available Sizes :** 1/8" NB TO 48"NB. **Available Class :** 150#, 300#, 600#, 900#, 1500# & 2500 #.





## Stainless Steel Flange & Elbow

### Stainless Steel Socket Weld Flanges

#### Applications

- ◆Chemical Industry
- ◆Petrochemical Industry



**Available Grades :** F 304, 304L, 304H, 316, 316L, 316Ti, 310, 310S, 321, 321H, 317, 347, 347H, 904L.

**Available Stainless Steel :** ASTM A 182, A 240

**Available Size :** 1/8" NB TO 48"NB. **Available Class :** 150#, 300#, 600#, 900#, 1500# & 2500 #.

### Stainless Steel Threaded Flanges

#### Applications

- ◆Water Systems
- ◆Gas Plants
- ◆Ship Building Industries
- ◆Power Plants
- ◆Offshore Industry



**Available Grades :** F 304, 304L, 304H, 316, 316L, 316Ti, 310, 310S, 321, 321H, 317, 347, 347H, 904L.

**Available Stainless Steel :** ASTM A 182, A 240

**Available Size :** 1/8" NB TO 48"NB. **Available Class :** 150#, 300#, 600#, 900#, 1500# & 2500 #.

### Stainless Steel Forged Flanges

#### Applications

- ◆Ship building industry
- ◆Valve industry
- ◆Petrochemical and gas industry
- ◆Power generation industry
- ◆Dairy industry



#### Technical specifications

**Standards** ASTM / ASME A/SA 182 & A240

**Grade :** F 304, 304L, 304H, 309S, 309H, 310S, 310H, 316, 316Ti, 316H, 316L, 316LN, 317, 317L, 321, 321H, 347, 347H, 904L

**Size range :** 1/2" TO 36" (15 mm to 900 mm) **Pressure class :** 75 LBS, 150 LBS, 300 LBS, 400 LBS, 600 LBS and 900 LBS

### Stainless Steel Elbows

**Types:** 45°long or short radius elbow, 90°long or short radius elbow, 180°long or short radius elbow



#### Applications

- ◆Petrochemical industry
- ◆Oil field
- ◆Chemical industry
- ◆Water supply
- ◆Food & beverage industry
- ◆Pharmaceutical industry

#### Technical specifications

**Size :** 1/2"NB TO 48"NB IN

**Schedule :** SCH20, SCH30, SCH40, STD, SCH80, XS, SCH60, SCH80, SCH120, SCH140, SCH160, XXS





# Stainless Steel Tee & Reducer

## Stainless Steel Tee



**Types:** Equal tee, reducing tee, barred tee, lateral tee, unequal tee.

### Applications

- ◆Chemical industry
- ◆Water supply
- ◆Petrochemical industry
- ◆Food & beverage industry
- ◆Pharmaceutical industry
- ◆Oil field
- ◆Power plants

### Technical specifications

**Sizes available** 1/2" NB TO 48" NB

**Specification:** ASTM A403 WP Gr.304,304H,309,310,316,316L,321,347,904L

## Stainless Steel Reducer



**Types:** Eccentric reducer, concentric reducer

### Applications

- ◆Chemical industry
- ◆Water supply
- ◆Petrochemical industry
- ◆Food & beverage industry
- ◆Pharmaceutical industry
- ◆Oil field
- ◆Power plants

### Technical specifications

**Sizes available :** 1/2" NB TO 48" NB

**Specification:** ASTM A403 WP Gr.304,304H,309,310,316,316L,321,347,904L

# Projects



- Heat Exchangers, Condensers & Pressure Vessels
- Chemical and Petrochemical
- Energy and Power Generation
- Automotive
- Aerospace Industry
- Shipping Industry & Naval Engineering
- Centralize Heating System
- Mechanical and Plant Engineering
- Liquefaction Projects







**Industry:** Piling Engineering in Singapore  
**Product:** TP316 Stainless Welded Pipe



**Industry:** SEACOR Marine Project in Mexico  
**Product:** TP321H Tee & Reducer



**Industry:** Industrial Exhaust Ducts in Romania  
**Product:** 45° Elbow & Tee



**Industry:** Oil Plant in Kuwait  
**Product:** TP347H Stainless Welded Pipe



**Industry:** Geothermal Exploration in Switzerland  
**Product:** TP410 Stainless Seamless Pipe



**Industry:** Smart Shipyard Project in Myanmar  
**Product:** Socket Weld Flange



**Industry:** Energy Project in Nigeria  
**Product:** S32304 Duplex Stainless Pipe



**Industry:** Coastal Chemical in Chile  
**Product:** 409 Ferritic Stainless Steel Tube



**Industry:** Water Supply System in Denmark  
**Product:** TP904L Tee & Flange



**Industry:** Gas Exploration in Columbia  
**Product:** TP304L Stainless welded pipe



**Industry:** Oil Refinery in Angola  
**Product:** 202 Stainless Steel Pipe & Flange

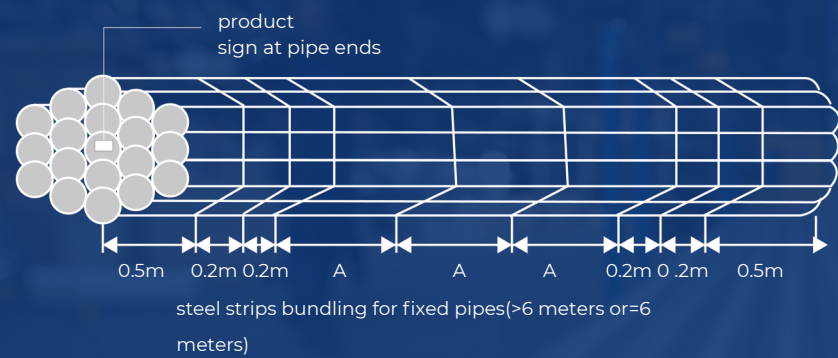


**Industry:** Petrochemical Project in United Arab Emirates  
**Product:** 301 Stainless Steel Seamless Pipe & Elbow



## Bundled Package

On bundle of steel tube shall be the same in batch number, steel grade and specification. the rest of tubing less than one bundle should be tied into small bundles. The weight of each bundle should be less than 50kg. The max weight cannot exceed 80kg of the bundle. If there are special requirements.



When the length of the steel tube is greater than or equal to 6m, with at least 8 strapping bands for each bundle, divided into 3 groups and 3-2-3.

When the length of the steel tube is less than 6m, and each bundle is tied at least 5 knots and divided into 3 groups, which are 2-1-2.

When the length of the tube is greater than or equal to 3m, and each bundle is tied with at least 3 bands, divided into 3 groups, 1-1-1 showed below.



## Wooden Box Package

The wooden box is suitable for cold rolling or cold drawing seamless steel tube, polished hot rolled stainless steel tube.



When the outer diameter of steel pipe is greater than or equal to 10mm, the maximum weight of the container should be 50kg.



When the outer diameter of steel pipe is less than or equal to 10mm, the maximum weight of the container should be 30kg.

## Sr. No. Type of Packing

- 1 Hessian / PVC Cloth Bundles with PVC Box Strap or Hexagonal Bundles
- 2 Wooden Crate
- 3 Wooden Box made of treated wood or Plywood sheet
- 4 Bare Tubes Bundles
- 5 Tubes With PVC Sleeve and packed in Wooden Boxes
- 6 Tubes bundles with PVC Film and Plywood Sheets on the bundles