



JAY JAGDAMBA LTD.

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## Our Products

Bright Round Bars

Hexagon bars

Squares bars

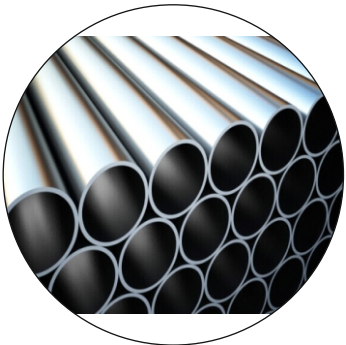
Threaded bars

Angle bars

Threded bars

Flanges

Seamless Pipes / Tubes



**We Also Manufacture**  
**Stainless Steel Seamless**  
**Pipes / Tubes**

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[www.jayjagdamba.com](http://www.jayjagdamba.com)

**Corporate Office:**

405, The Landmark, Plot No. 26A,  
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Navi Mumbai - 410 210. India.  
Tel.: 022-2776 3506, Fax: 022-27763507

**Works:**

Gut No.92/3, 422, 423, 424, 44, 45, 46/1,  
46/2(P) and 58/2, Village: Abhitghar,  
Shirishpada - Shahapur Road, Taluka - Wada,  
Dist: Palghar, Maharashtra-421 303. INDIA.

**Registered Office:**

B-327, K 10, Atlantis,  
Sarabhai Road Near Genda Circle,  
Gorwa, Vadodara,  
Gujarat 390 007. India.

# Stainless Steel Seamless Pipes / Tubes

## PRODUCT SPECIFICATIONS

Stainless steel is a low-cost and corrosion-resistant material with a high level of durability. It is ideal for both residential and marine applications.

Not only is it durable and long-lasting with a perfect surface finish, but it also has excellent strength.

Stainless Steel Seamless Pipes / Tubes are widely used in commercial and industrial fields, especially fluid transportation. With appropriate processes, they have superior performance in high pressure high strength, and corrosion resistance.



JAY JAGDAMBA LTD.

### Application

Stainless steel seamless pipe can resist high temperatures for cleanliness and maintain the purity of materials which contact stainless steel directly. Stainless steel pipe and tubing are used in chemical plants, aviation fields, marine equipment, cryogenic transportation, medical and architectural industries.

- Chemical plants
- Aviation fields
- Marine equipment
- Cryogenic transportation
- Medical & architectural industries

### Available Specification

### Product Specification and Size :

Product Name	Executive Standard	Dimension	Steel Code / Steel Grade
Seamless Austenitic Stainless Steel Pipes	ASTM A312/A312M, ASME SA312/SA312M	OD: 6.0~914.0mm WT: 0.5~88mm	TP304, TP304L, TP304H, TP310, TP310S, TP316, TP316L, TP316Ti, TP317, TP317L, TP321, TP321H, TP347, TP347H

## Stainless Steel pipe dimension as per astm & weight

Nominal		Outside Diameter	Sch 5S		Sch 10S		Sch-40S		Sch-80S		Sch-160S		Sch-XXS	
mm	inch	mm	WT mm	Weight (Kg/mt)	WT mm	Weight (Kg/mt)	WT mm	Weight (Kg/mt)	WT mm	Weight (Kg/mt)	WT mm	Weight (Kg/mt)	WT mm	Weight (Kg/mt)
3	1/8	10.3	1.24	0.276	1.24	0.28	1.73	0.37	2.41	0.47	-	-	-	-
6	1/4	13.7	1.24	0.390	1.65	0.49	2.24	0.631	3.02	0.80	-	-	-	-
10	3/8	17.1	1.24	0.490	1.65	0.63	2.31	0.845	3.20	1.10	-	-	-	-
15	1/2	21.3	1.65	0.800	2.11	1.00	2.77	1.27	3.75	1.62	4.75	1.94	7.47	2.55
20	3/4	26.7	1.65	1.03	2.11	1.28	2.87	1.68	3.91	2.20	5.54	2.89	7.82	3.63
25	1	33.4	1.65	1.30	2.77	2.09	3.38	2.50	4.55	3.24	6.35	4.24	9.09	5.45
32	1 1/4	42.2	1.65	1.65	2.77	2.70	3.56	3.38	4.85	4.47	6.35	5.61	9.70	7.77
40	1 1/2	48.3	1.65	1.91	2.77	3.11	3.68	4.05	5.08	5.41	7.14	7.25	10.16	9.54
50	2	60.3	1.65	2.40	2.77	3.93	3.91	5.44	5.54	7.48	8.74	11.1	11.07	13.44
65	2 1/2	73.0	2.11	3.69	3.05	5.26	5.16	8.63	7.01	11.4	9.53	14.9	14.2	20.39
80	3	88.9	2.11	4.51	3.05	6.45	5.49	11.30	7.62	15.2	11.1	21.3	15.24	27.65
100	4	114.3	2.11	5.84	3.05	8.36	6.02	16.07	8.56	22.3	13.49	33.54	17.12	41.03
125	5	141.3	2.77	9.47	3.40	11.57	6.55	21.8	9.53	31.97	15.88	49.11	19.05	57.43
150	6	168.3	2.77	11.32	3.40	13.84	7.11	28.3	10.97	42.7	18.2	67.56	21.95	79.22
200	8	219.1	2.77	14.79	3.76	19.96	8.18	42.6	12.7	64.6	23.0	111.2	22.23	107.8
250	10	273.1	3.40	22.63	4.19	27.78	9.27	60.5	12.7	96.0	28.6	172.4	25.40	155.15
300	12	323.9	3.96	31.25	4.57	36.00	9.52	73.88	12.7	132.0	33.32	238.76	25.40	186.97
350	14	355.6	3.96	34.36	4.78	41.3	11.13	94.59	19.05	158.08	35.71	281.70	-	-
400	16	406.4	4.19	41.56	4.78	47.29	12.7	123.30	21.41	203.33	40.46	365.11	-	-
450	18	457.2	4.19	46.80	4.78	53.42	14.27	155.80	23.8	254.36	45.71	466.40	-	-
500	20	508.0	4.78	59.25	5.54	68.71	15.09	183.42	26.19	311.2	49.99	564.68	-	-
600	24	609.6	5.54	82.47	6.35	94.45	17.48	255.41	30.96	442.08	59.54	808.22	-	-

## Weight & thickness of S.S gauge pipes

Dimension		10 SWG(3.2MM)	12 SWG(2.6MM)	14 SWG(2.1MM)	16 SWG(1.65MM)	18 SWG (1.2MM)	19 SWG(1.0MM)
Size	OD	Weight/MTR	Weight/MTR	Weight/MTR	Weight/MTR	Weight/MTR	Weight/MTR
1/2"	12.7	0.754	0.651	0.552	0.452	0.342	0.290
5/8"	15.875	1.006	0.856	0.718	0.582	0.437	0.369
3/4"	19.05	1.258	1.061	0.883	0.712	0.531	0.448
1"	25.4	1.762	1.470	1.214	0.972	0.720	0.605
1 1/4"	31.75	2.266	1.880	1.544	1.232	0.909	0.763
1 1/2"	38.1	2.770	2.289	1.875	1.492	1.098	0.920
2"	50.8	3.778	3.108	2.537	2.012	1.476	1.235
2 1/2"	63.5	4.786	3.928	3.198	2.531	1.854	1.550
3"	76.2	5.794	4.747	3.860	3.051	2.232	1.865
3 1/2"	88.9	6.802	5.566	4.521	3.571	2.610	2.180
4"	101.6	7.810	6.385	5.183	4.091	2.988	2.495

## Mechanical Properties of Stainless-Steel Pipes

### ASTM A312 Mechanical Properties

Material	Heat ASTM A312 Mechanical Properties Treatment	Temperature Min. ° F(° C)	Tensile Strength	Yield Strength	Elongation
			Ksi (MPa), Min.	Ksi (MPa), Min.	%, Min
TP304	Solution	1900 (1040)	75(515)	30(205)	35
TP304L	Solution	1900 (1040)	70(485)	25(170)	35
TP304H	Solution	1900 (1040)	75(515)	30(205)	35
TP310S	Solution	1900 (1040)	75(515)	30(205)	35
TP316	Solution	1900(1040)	75(515)	30(205)	35
TP316L	Solution	1900(1040)	70(485)	25(170)	35
TP316H	Solution	1900(1040)	75(515)	30(205)	35
TP316Ti	Solution	1900(1040)	75(515)	30(205)	35
TP321	Solution	1900(1040)	75(515)	30(205)	35
TP321H	Solution	Cold: 2000(1100)	75(515)	30(205)	35



## CONTINUOUS CAST BILLETS / BLOOMS

Size	Type	Wt/Mtr
80 mm x 80 mm	Square	45
100 mm x 100 mm	Square	75
120 mm x 120 mm	Square	113
140 mm x 140 mm	Square	152
160 mm x 160 mm	Square	200
200 mm x 200 mm	Square	314

Supply Condition	<ul style="list-style-type: none"> <li>• Length up to 9 meter</li> <li>• Spot grind or fully grind condition (as per request)</li> <li>• Suitable for Forging, Re-rolling, Ring Rolling &amp; Up-setting</li> <li>• Marked with Heat Number, Grade &amp; Size</li> <li>• Standard - ASTM, ASME, EN, DIN</li> <li>• Free from radioactive elements &amp; mercury, lead contamination</li> </ul>
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## FORGING QUALITY INGOTS

### Size Range

With a wide range of Stainless and Alloy Steel grades, we offer variety of ingots in weight up to 22 M.T. in square, octagonal and round shapes as following:

Ingot Size (In Inches)	Shape of Ingot	Ingot Weight (In Kilograms)
8" X 9" X 52"	Square	500
9" X 11" X 52"	Square	740
11" X 14" X 52"	Square	1050
14" X 17" X 72"	Square	2400
16" X 20" X 55"	Square	2500
20" X 24" X 72"	Square	4900
27" X 30" X 62"	Polygonal	5500
400 DIA X 2.5 METER	Round	2500
500 DIA X 2.5 METER	Round	3900
600 DIA X 2.5 METER	Round	5600

Supply Condition	<ul style="list-style-type: none"> <li>• Spot Grinded or Fully Grinded Condition</li> <li>• Free from surface defects or cracks</li> <li>• 100% tested through handheld spectrometer</li> <li>• Every piece is marked with heat number, grade, size and weight</li> <li>• Free from radioactive elements &amp; mercury, lead contamination</li> </ul>	<ul style="list-style-type: none"> <li>• Cropped Ends</li> <li>• Ingots are supplied with smooth ends</li> </ul>
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## HOT ROLLED ROUND CORNERED SQUARES (RCS)

Size	35mm, 40mm, 45mm, 50mm, 63mm, 75mm, 85mm, 100mm, 120mm
Supply Condition	<ul style="list-style-type: none"> <li>• Length up to 8 Meters</li> <li>• 100% Ultrasonically tested</li> <li>• Free of surface defects/crack</li> <li>• Smooth ends without sharp edges</li> <li>• 100% Material identity tested through handheld Spectrometer</li> <li>• Free from radioactive elements &amp; mercury, lead contamination</li> </ul>
	<ul style="list-style-type: none"> <li>• Hot Rolled ( Black ) Surface</li> <li>• Spot grinded or fully grinded surface</li> <li>• Cold Sawable</li> </ul>

## HOT ROLLED ROUND BARS

Size	16 mm - 120 mm
Supply Condition	<ul style="list-style-type: none"> <li>• Hot Rolled (Black) Surface</li> <li>• Spotgrinded</li> <li>• Heat Treatment - Soft Annealing, Solution Annealing, Oil &amp; Water Quenching, Tempered &amp; Normalized</li> <li>• Cold Sawable</li> <li>• 100% material identity tested through handheld spectrometer</li> <li>• Free from radioactive elements &amp; mercury, lead contamination</li> </ul>
	<ul style="list-style-type: none"> <li>• 100% Ultrasonically Tested</li> <li>• Length up to 8 Meters</li> </ul>



## WIRE ROD (HRAP)

Grades	303, 304, 304L, 316, 316L, 410, 416, 420, 430F, 430L
Size	5.5mm to 14 mm (diameter)
Tolerance	As per EN 10060
Surface Defect	1% of Diameter
Coil Weight	500-1000 kgs
Packing	HDPE Wrapped coils 500 to 1000 kgs
Heat Treatment	Solution Annealing for Austenitic Grades, Normal Annealing for Martensitic Grades
Surface Treatment	Hot Rolled or Hot Rolled Annealed and Pickled (with or without coating)

## BRIGHT ROUND BAR



Size Range	3 mm to 120 mm (1/8" - 4-3/4")
Supply Condition	<ul style="list-style-type: none"> <li>• Cold Drawn, Centreless Ground, Peeled &amp; Polished.</li> <li>• Rough Peeled or Smooth Turned bars.</li> <li>• Surface finish Ra 0.5 µmm to 1.5µmm max</li> <li>• Straightness from 0.5mm/ mtr to 1mm /mtr. 240,400,600 Grit Belt Polish</li> </ul>
Heat Treatment	Soft Annealing, Solution Annealing, Normalizing, Hardening & Tempering, Oil & Water Quenching.
Bars End Finish	Free from Burs, smooth saw cut, one end OR both end chamfered with 45 deg.
Specifications	As per EN, DIN, JIS, ASTM, BS, ASME, GHOST, Nace MRO175/ MRO 103.
Grade	AISI 201, 202, 301, 302, 303, 304, 304L, 309, 310, 316, 316L, 316Ti, 321, 321H, 347, 347H, 403, 410, 416, 420, 420B, 420C, 430, 430F, 431, 630, 15-5PH, 17-4PH, 1.4435, 317L, F51, F60, 2205
Rough Turned tol.	DIN 1013, EN10060.
Tolerance	h8, h9, h11, k11, k12, k13

## SQUARE & HEXAGONAL BRIGHT BARS

Square Size Range	5 mm to 70 mm
Hex Size Range	5 mm to 50 mm
Length	3 to 6 Meters
Tolerances	h11, h12, h13
Surface Finish	Cold Drawn, Shot Blast & Drawn, 240 Grit Belt Polished
Heat Treatment	Annealed & Solution Annealed,
Bars End Finish	Free from Burs, Smooth Saw Cut, One End or both end chamfered with 45 deg.



## STAINLESS STEEL THREADED BARS

Applications : Ground Anchors, Resin Anchors, Rock Bolts, Tie Bars, Roof and Hanger Bolts.



Condition	Cold Drawn, Threading
Grades	304, 304L, 316, 316L, B8, B8M, A2, A4
Diameter (Size)	Metric M6 to M48, Inches - 1/4" to 2"
Threading Method	Thread Rolling
Thread Condition	Fully Threaded
Thread Type	Class-1 & Class-2 ( Low and High Tensile Threaded Rod)
Length	2mtr., 3mtr., 4mtr., 6mtr., & 12ft.
Length Tolerance	-0 / +200 mm (-0" / +8")

## STAINLESS STEEL PRECISION BARS

Applications : Piston Rods, Pump Shafts, Boat Shafts, Cylinder Shafts, Precision Machined Parts, Automotive Components & Others.

Condition	Cold Drawn, Centreless Ground & Polished	Peeled, Centresless Ground & Polished
Grades	303, 304, 304L, 316, 316L, 410, 416, 420, 430F, 431, 630 (17-4 PH) & others	
Diameter (Size)	6mm to 25mm (1/4" to 1")	16mm to 60mm (5/8" to 2-1/2")
Surface Finish	Up to 20 RMS Max. Up to Ra 0.5µmm max.	Up to 20 RMS Max. Up to Ra- 0.5µmm max.
Diameter Tolerance	h7, h8, f7, f8, g6	h7, h8, f7, f8, g6
Straightness	Upto 0.5 mm per meter (TIR 0.0015 inch per feet)	
Out of Roundness	Half of Diameter Tolerance	Half of Diameter Tolerance
Length	3 to 7 meter (12 to 22 feet)	
Length Tolerance	-0/+50mm or +20mm or +10mm -0/+2" or 1" or 1/2"	-0/+50mm or +20mm or +10mm -0/+2" or 1" or 1/2"
Heat Treatment	Solution Annealed, Annealed, Quenched & Tempered	



## HRAP EQUAL ANGLES

### Size Range

Size (mm)	Thickness (mm)	Size (Inches)	Thickness (Inches)
20	3, 4, 5, 6	3/4"	1/8, 3/16, 1/4
25	3, 4, 5, 6	1"	1/8, 3/16, 1/4
30	3, 4, 5, 6	1-1/8"	1/8, 3/16, 1/4
35	3, 4, 5, 6	1-3/8"	1/8, 3/16, 1/4
38	3, 4, 5, 6	1-1/2"	1/8, 3/16, 1/4
40	3, 4, 5, 6, 8	1-5/8"	1/8, 3/16, 1/4, 5/16
45	3, 4, 5, 6	1-3/4"	1/8, 3/16, 1/4
50	3, 4, 5, 6, 8, 9, 10	2"	1/8, 3/16, 1/4, 5/16, 3/8
60	5, 6, 8, 9, 10	2-3/8"	3/16, 1/4, 5/16, 3/8
65	5, 6, 8, 9, 10	2-1/2"	3/16, 1/4, 5/16, 3/8
70	6, 7, 8, 9, 10	2-3/4"	1/4, 5/16, 3/8
75	6, 8, 9, 10, 12	3"	1/4, 5/16, 3/8, 1/2
80	6, 8, 10, 12	3-1/8"	1/4, 5/16, 3/8, 1/2
90	6, 8, 10, 12	3-1/2"	1/4, 5/16, 3/8, 1/2
100	6, 8, 10, 12	4"	1/4, 5/16, 3/8, 1/2

### Supply Conditions

- Length up to 7 meters
- Hot Rolled Annealed Pickled (HRAP), Shot Blasted, Polished
- Both ends are Color Coded as per the Customers Specific Requirement
- Specifications as per EN, DIN, JIS, ASTM, BS, ASME, AISI, etc
- 100% identified by Handheld Spectrometer
- Laser printing as per grade, size & heat no
- Free from radioactive elements & mercury, lead contamination



## HRAP FLAT BARS

### Size Range

Size (mm)	Thickness (mm)	Size (Inches)	Thickness (Inches)
20	3, 4, 5, 6, 8, 9, 10, 12, 15	3/4"	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8
25	3, 4, 5, 6, 8, 9, 10, 12, 15, 20	1"	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4
30	3, 4, 5, 6, 8, 9, 10, 12, 15, 20, 25	1-1/8"	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1
35	3, 4, 5, 6, 8, 9, 10, 12, 15, 20, 25, 30	1-3/8"	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/8
40	3, 4, 5, 6, 8, 9, 10, 12, 15, 20, 25, 30, 35	1-5/8"	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/8, 1-3/8
50	3, 4, 5, 6, 8, 9, 10, 12, 15, 20, 25, 30, 35, 40	2"	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/8, 1-3/8, 1-5/8
60	5, 6, 8, 9, 10, 12, 15, 20, 25, 30, 40	2-3/8"	3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/8, 1-5/8
65	6, 8, 9, 10, 12, 15, 20, 25, 30	2-1/2"	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/8
70	6, 8, 10, 12, 15, 20, 25, 30, 35, 40	2-3/4"	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/8, 1-3/8, 1-5/8
75	6, 8, 9, 10, 12, 15, 20, 25, 30, 35, 40	3"	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/8, 1-3/8, 1-5/8
80	6, 8, 9, 10, 12, 15, 20, 25, 30, 35, 40	3-1/8"	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1-1/8, 1-3/8, 1-5/8
90	10, 12, 15, 20, 25, 30, 35, 40	3-1/2"	3/8, 1/2, 5/8, 3/4, 1, 1-1/8, 1-3/8, 1-5/8
100	10, 12, 15, 20, 25, 30, 32	4"	3/8, 1/2, 5/8, 3/4, 1, 1-1/8, 1-1/4

### Supply Conditions

- Length up to 7 meters
- Hot Rolled Annealed Pickled (HRAP), Shot Blasted, Polished
- Both ends are Color Coded as per the Customers Specific Requirement
- Specifications as per EN, DIN, JIS, ASTM, BS, ASME, AISI, etc
- 100% identified by Handheld Spectrometer
- Laser printing as per grade, size & heat no
- Free from radioactive elements & mercury, lead contamination



## FORGED & TURNED ROUND BARS

Size Range	130 mm - 500 mm (5" - 20")
Length	3 to 6 Meters
General Condition	Ultrasonic Tested • Free From Surface Defects and Cracks • 100% Identified with Handheld Spectrometer Free from radioactive elements & mercury, lead contamination
Heat Treatment	Soft Annealed, Solution Annealed, Quenched & Tempered
Surface Condition	Rough Turned OR Machined

## STAINLESS STEEL WIRES

Jay Jagdamba produces Excellent quality of Stainless Steel Wire by using finest raw material, state of the art manufacturing facilities and highly skilled manpower. Thick and medium size wires are produced in various grade, finish, temper for a wide range of application. Types of wires are Stainless steel fine wire, Stainless steel spring wire, stainless steel cold heading wires, EPQ wires, Rope wires, Nail wires. Wires are suitable for application like screw, Bolts, Nuts and also for making Kitchenware's, Basket, Cable Tray and Trolley with final process as electro polishing.



Size	2.00 mm to 9.00mm
Grades	201Cu, 302, 304, 304L 304H, 316,316L
Finish	Bright drawn, Bright shiny, Matt drawn, Coated
Temper	Soft, 1/8 Hard, ¼ Hard, ½ Hard, ¾ Hard, Full Hard
Standard	As per ASTM / EN standard



## Tolerance Chart

### ISO TOLERANCE FOR PRECISION BARS (ISO 286-2)

Size Range	3-6	6-10	10-18	18-30	30-50	50-80	80-120
<b>f6</b>	-0.01	-0.013	-0.016	-0.020	-0.025	-0.030	-0.036
	-0.018	-0.022	-0.027	-0.033	-0.041	-0.049	0.0-58
<b>f7</b>	-0.01	-0.013	-0.016	-0.020	-0.025	-0.030	-0.036
	-0.022	-0.028	-0.034	-0.041	-0.05	-0.06	-0.071
<b>f8</b>	-0.01	-0.013	-0.016	-0.021	-0.025	-0.03	-0.036
	-0.028	-0.035	-0.043	-0.053	-0.064	-0.075	-0.09
<b>g6</b>	-0.004	-0.005	-0.006	-0.007	.009	-0.010	-0.012
	-0.012	-0.014	-0.017	-0.020	-0.025	-0.029	-0.034
<b>g7</b>	-0.004	-0.005	-0.006	-0.007	-0.009	-0.010	-0.012
	-0.016	-0.020	-0.024	-0.028	-0.034	-0.040	-0.047
<b>h6</b>	0	0	0	0	-0	-0	0
	-0.008	-0.009	-0.011	-0.013	-0.016	-0.019	-0.022
<b>h7</b>	0	-0	-0	0	-0	-0	0
	-0.012	-0.015	-0.018	-0.021	-0.025	-0.03	-0.035
<b>h8</b>	0	-0	-0	0	-0	-0	0
	-0.018	-0.022	-0.027	-0.033	-0.039	-0.046	-0.054
<b>h9</b>	0	-0	-0	0	-0	-0	0
	-0.03	-0.036	-0.043	-0.052	-0.062	-0.074	-0.087
<b>h10</b>	0	0	0	0	0	0	0
	-0.048	-0.058	-0.070	-0.084	-0.100	-0.120	-0.140
<b>h11</b>	0	0	0	0	0	0	0
	-0.075	-0.090	-0.110	-0.130	-0.160	-0.190	-0.220
<b>h12</b>	0	0	0	0	0	0	0
	-0.120	-0.150	-0.180	-0.210	-0.250	-0.300	-0.350
<b>h13</b>	0	0	0	0	0	0	0
	-0.180	-0.220	-0.270	-0.330	-0.390	-0.460	-0.540
<b>k12</b>	0	0	0	0	0	0	0
	+0.12	+0.15	+0.18	+0.21	+0.25	+0.30	+0.35
<b>k13</b>	0	0	0	0	0	0	0
	+0.18	+0.22	+0.27	+0.33	+0.39	+0.46	+0.54

### Cold Finish Round Bars ASTM A484

Table-7

### Cold Finish Hexagon, Octagon & Square Bars - ASTM A -484

Table 8

Size Range	Tol.	Size Range	Tol.
1/16 to Less than 5/16" (1.5 mm to less than 8 mm)	+/- 0.001" [+/-0.03]	1/8" to Less than 5/16" (1.5 mm to less than 8 mm)	-0.002" [-0.05]
5/16" to less than 1/2" 8 mm to less than 13mm	+/- 0.0015" [+/-0.04]	5/16" to less than 1/2" 8 mm to less than 13mm	-0.003" [-0.08]
1/2" to less than 1" 13 mm to less than 25mm	+/- 0.002" [+/-0.05]	1/2" to less than 1" 13 mm to 25mm incl.	-0.004" [-0.10]
1" to 1-1/2" 25mm to less than 38mm	+/- 0.0025" [+/-0.06]	Over 1", upto 2" incl. 25mm to 50 mm incl	-0.006" [-0.15]
1-1/2" to 3-1/4" incl. 38mm to less than 83 mm incl.	+/- 0.003" [+/-0.08]	Over 2", upto 3" incl. Over 50 mm to 75 mm incl.	-0.008" [-0.20]
3 1/4" to 4" incl. 83 mm to 100 mm incl.	[+/-0.005"] [+/- 0.13]	Over 3" Over 75 mm	-0.010" [-0.25]



# PRODUCT SPECIFICATIONS

Stainless Steel Forgings, Flanges & Stub Ends

Types of Flanges : Slip On, Weld Neck, Blind, Socket Weld, Threaded, Lap Joint, RTJ, Orifice etc.



We have world class ultra modern manufacturing facilities for forging and flanges. Our range of Industrial flanges are ideal for application in diverse industry for high pressure and temperature applications we manufactures flanges according to various Specifications.

The complete specifications and size range are given below.

Specification (Latest edition)	Item Type	Pressure Class	Size Range
ASME/ANSI B16.5	Blind, Weld Neck, Slip-on, Socket Weld, Threaded and Lap Joint Flanges	150 to 1500LBS	1/2" to 24"
		2500LBS	1/2" to 12"
ASME/ANSI B16.47	Blind, Weld Neck Flanges (Series A & B)	75 to 600LBS	26" to 60"
		900LBS	26" to 48"
ASME/ANSI B16.36	Orifice Flanges ( Weld Neck, Slip-on, Threaded)	300 to 2500LBS	1" to 12"
EN 1092-1 / DIN / BS 4504 Flanges	01 (Plate flange), 02 (Loose Plate flange for types 32—37), 04 (Loose Plate flange for type 34), 05 (Blind flange), 11 (Weld-Neck flange), 12 (Hubbed Slip-on flange), 13 (Hubbed Threaded flange), 21 (Integral flange), 32 (Weld-on Plate Collar), 33 (Lapped End Pipe), 34 (Weld-Neck Collar), 35 (Welding Neck), 36 (Pressed Collar with Long Neck), 37 (Pressed Collar)	PN2.5 to PN16	10mm to 1800mm
		PN25	10mm to 1000mm
		PN40	10mm to 600mm
		PN63	10mm to 400mm
		PN100	10mm to 350mm
		PN160, PN250	10mm to 300mm
		PN320	10mm to 250mm
PN400	10mm to 200mm		
BS 10	Blind, Slip-on and Welding neck flanges	TABLE-A,D,E,F,H,J,K,R,S,T	15mm to 600mm
ASME/ANSI B16.9/MSS SP-43	Stub end -Type:A, B, C	S10, S40, S80	½" to 24"

Note: We can also manufacture according to other standards like API-605, JIS, UNI, AWWA and as per drawings of customers

**Flange Face Type:** Flat Face (FF), Raised Face (RF), Ring Type Joint (RTJ), Large Raised face (LRF)

**Coating/Surface Treatment (if applicable):** Anti-rust Paint, Oil Black Paint, Yellow Transparent, Zinc Plated, Cold and Hot Dip Galvanized

**ASTM A182 :** F304/304L/304H, F316/316L, F316H, F316TI, F321/321H, F317L, F317H, F347/347H

**DIN EN10222-5:** 1.4301, 1.4307, 1.4401, 1.4404, 1.4571, 1.4541, 1.4438, 1.0460, 1.4435, 1.4057, 1.4006, 1.4021

**Carbon Steel :** ASTM A105/A105N, A350 LF1, LF2, RST37.2, C22.8, SA266 Gr2/Gr4

**Alloy Steel :** ASTM A182 F6, F5, F9, F11, F12, F22, F91/F6a

**Special Alloy :** Duplex – F51/F60 – 1.4462 – UNS S31803

Super Duplex – F53 – 1.4410 – UNS S532750

## TYPES OF STAINLESS STEEL FORGINGS.

### BUTTERFLY DISC FORGINGS

Our company is producing Stainless steel butterfly disc forgings as per customer drawings.. We make these forgings in grade 316L in several sizes varying from DN 25 to DN 150 mm. It is used in Hygienic butterfly valves to control flow.

### VALVE BODY FORGINGS

Our company manufactures Stainless steel valve body forgings as per customer drawings as follows.

Butterfly valve bodies: In grade 304L & 316L in various sizes in weight range from 0.7 kg. To 20 kg.

Ball valve bodies. : In grade 304L & 316L in various sizes in weight range from 4 kg. To 10 kg

Check valve male and cover bodies. : In grade 316L in weight range from 2 to 10 kg.

Pump covers and flanges: In grade 316L in weight range from 1 kg. To 4 kg.

