



STEELAGETM

ALLOYS LLP

An ISO 9001:2015 CERTIFIED CO.

www.steelagealloys.com



THE COMPANY

Steelage Alloys LLP is a highly acclaimed stockist, exporter and supplier of Steel, Metal & Alloy products, established with the aim of satisfying the customers from every sector of manufacturing & engineering industries, benefit from a cost-effective single source for all their requirements.

Behind Steelage Alloys LLP's speedy success lies the undisputed experience of its founders & promoters spanning two decades. It has carved an unparalleled position in the industry by making relentless efforts to cater the client with premium quality products.

Strength:

- Company with its own state-of-the-art warehousing facility and huge inventory that includes Stainless steel, Carbon steel, Mild steel, Alloy steel, Copper, Cupronickel, Copper alloys, Brass, Aluminium, Nickel alloys & other Special metal products in form of sheets, plates, coils, pipes, fittings, flanges, fasteners, bars, wires, flats, angles, channels, circles and other customised products.
- Comprehensive processing services providing items cut or finished to customers' requirements.
- Ongoing investment in technology and logistics to ensure on-time delivery.

Services:

- The most comprehensive stock range, highest investment in processing equipment, helpful friendly knowledgeable staff & excellence in timely delivery – it all adds up to unbeatable service.
- It is our principle to guarantee the whole-course services including before-sale, in-sale & after-sale.

PRODUCT RANGE

Pipes and Tubes:

Type: ERW, EFW & Seamless
 Size: Pipes: 1/8"nb to 36"nb
 Tubes: 1/8"od to 24"od
 Thickness: Pipes: Sch5 to SchXXS
 Tubes: 0.5mm to 60mm

Flanges:

Type: Weldneck(wnrf), Socketweld(swrf), Slip on(sorf),
 Blind(blrf), Lap joint, Screwed(threaded)
 Size: 1/2"nb to 48"nb

Flats, Angles & Channels

Type: Equal & Unequal
 Size: Thickness: 1mm to 50mm
 Width: 10mm to 200mm
 Length: As per requirement.

Fasteners:

Type: Bolts, Nuts, Screws, Studs, Washers, U bolts &
 Anchor bolts.
 Size: M3 TO M56 (3/16" TO 2")
 Length: 3mm TO 500mm

Bars, Rods and Wires:

Type: Round, Square, Hex, Rectangular, Wires,
 Billets, Wiremesh, Ingots, Blocks, Forgings etc.
 Finish: Black, Bright & Polished
 Size: Diameter(OD): 0.5mm to 300mm
 Length: As per requirement.

Fittings Butt weld & Forged :

Type: Butt weld, Socket weld & Forged.
 Shape: Elbows, Tees, Reducers, Stubends, End Caps,
 Cross, Olets, Nipples, Unions, Sockets, Plugs,
 Couplings, Bush
 Size: Butt weld: 1/4"nb to 48"nb & Thk: Sch5 to SchXXS
 Socket weld & Forged: 1/4"nb to 4"nb & Thk:
 3000, 6000 & 9000 LBS

Sheets, Plates and Coils:

Type: Sheets, plates, coils, chequered plates,
 perforated sheets, strips, designer
 sheets etc.
 Finish: HR, CR, 2B, 2D, BA, Satin, Matte, Mirror,
 Pvc Coated etc.
 Size: Thickness: 0.1mm to 125mm
 Dimension: As per requirement upto 2500mm width.

Material: Stainless steel, Carbon steel, Mild steel, Alloy steel, Copper, Cupronickel, Copper alloys, Brass, Aluminium, Nickel alloys & other Special metal products



PIPES AND TUBES

Type:	ERW, EFW & Seamless
Size:	Pipes: 1/8"nb to 36"nb Tubes: 1/8"od to 24"od
Thickness:	Pipes: Sch5 to SchXXS Tubes: 0.5mm to 60mm MS/CS/GI ERW Pipes Class: A,B & C
Length:	Full Length upto 12mtrs & Cut Length as per requirement.
Forms:	Round, Square, Rectangular, Coil tubes & U-tube
Finish:	Annealed, Bright Annealed, Mirror Polish, Buff Polish, Electro Polish & Mechanical Polish.
End:	Plain end, Bevelled end & Threaded end.
Packing:	Packed in Plastic End caps, Wooden box, Plastic bags, Steel strip bundles or customised request.

STAINLESS STEEL:

Grades:	Stainless Steel Austenitic: TP 201, 202, 304, 304L, 309, 309S, 310, 310S, 316, 316L, 316Ti, 317, 317L, 321, 347, 904L etc. Stainless Steel Ferritic: TP 405, 409, 410, 430, 431 Duplex & Super Duplex: UNS S31254, 31500, 31803, 32205, 32304, 32750, 32760
Standards:	ASTM A213, A249, A268, A269, A270, A312, A358, A789, A790

CARBON & MILD STEEL:

Grades & Standards:	Carbon Steel Pipe: ASTM A/ASME SA 53 Grade A & B ASTM A/ASME SA 106 Grade A,B & C ASTM A/ASME SA 333 Grade 1 & 6 API 5L- PSL 1 Grade A B X42, X46, X52, X56, X60, X65, X70 API 5L- PSL 2 Grade B X42, X46, X52, X56, X60, X65, X70 Carbon Steel Tube: ASTM A/ASME SA179, SA192, SA210 Grade 1,C BS 3059 PART-II Grade 360, 440, 620 DIN 2391 ST35, ST37, ST45, ST52 Mild Steel: IS 1239 (PART-1) 2004 IS 3589 Grade 330/410 IBR-BS 3059
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ALLOY STEEL

Grades & Standards:	Pipes: ASTM / ASME SA335 Grade P1, P2, P5, P9, P11, P12, P22, P23, P91 & P92 Tubes: ASTM A / ASME SA 213 T5, T9, T12, T22, T23, T91 & T92
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SPECIAL METALS:

Grades:	Nickel 200, 201, Monel 400, K500, Inconel 600, 601, 625, 800, 825, 800HT, Hastelloy C22, C276 , Nickel Alloys SMO 254, Alloy-20, Titanium Grade 1, 2 & 5.
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Note: Sizes & Specifications other than above can be manufactured on request.



Ansi B 36.19 / 36.10 Stainless Steel Pipe

DIMENSION IN MM & WEIGHT PER KG.

Nominal Pipe Size		Outside Diameter	Schedule 5 S		Schedule 10 S		Schedule 20 S		Schedule 40 S		Schedule 80 S		Schedule 160 S		XXS	
mm	inch	inch	Wt mm	Weight (KGM)	Wt mm	Weight (KGM)	Wt mm	Weight (KGM)	Wt mm	Weight (KGM)	Wt mm	Weight (KGM)	Wt mm	Weight (KGM)	Wt mm	Weight (KGM)
3	1/8	10.3	1.2	0.26	1.24	0.28	1.5	0.33	1.73	0.37	2.41	0.47				
6	1/4	13.7	1.2	0.37	1.65	0.49	2.00	0.53	2.24	0.63	3.02	0.80				
10	3/8	17.1	1.2	0.47	1.65	0.63	2.00	0.74	2.31	0.84	3.20	1.10				
15	1/2	21.3	1.65	0.80	2.11	1.00	2.30	1.07	2.77	1.27	3.73	1.62	4.78	1.94	7.47	2.55
20	3/4	26.7	1.65	1.02	2.11	1.28	2.55	1.52	2.87	1.69	3.91	2.20	5.56	2.90	7.82	3.64
25	1	33.4	1.65	1.30	2.77	2.09	3.00	2.25	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	3.00	2.90	3.56	3.39	4.85	4.47	6.35	5.61	9.70	7.77
40	1.1/2	48.3	1.65	1.90	2.77	3.11	3.00	3.35	3.68	4.05	5.08	5.41	7.14	7.25	10.15	9.55
50	2	60.3	1.65	2.39	2.77	3.93	3.00	4.24	3.91	5.44	5.54	7.48	8.74	11.11	11.07	13.44
65	2.1/2	73.0	2.11	3.69	3.05	5.26	4.00	6.81	5.16	8.63	7.01	11.41	9.53	14.91	14.02	20.39
80	3	88.9	2.11	4.51	3.05	6.45	4.00	8.37	5.49	11.29	7.62	15.27	11.10	21.30	15.24	27.68
100	4	114.3	2.11	5.84	3.05	8.36	4.50	12.16	6.02	16.07	8.56	22.32	13.49	33.54	17.12	41.03
125	5	141.3	2.77	9.47	3.40	11.57	5.00	16.80	6.55	21.80	9.53	30.97	15.88	49.11	19.05	57.43
150	6	168.3	2.77	11.32	3.40	13.82	6.35	25.86	7.11	28.26	10.97	42.56	18.25	67.53	21.95	79.22
200	8	219.1	2.77	14.78	3.76	19.96	6.35	33.31	8.18	42.55	12.70	64.64	23.01	111.27	22.23	107.92
250	10	273.1	3.40	22.61	4.19	27.78	6.35	41.77	9.27	60.31	12.70	81.55	28.58	172.33	25.40	155.15
300	12	323.8	3.96	31.24	4.57	36.00	6.35	49.70	9.53	73.85	12.70	97.43	33.32	238.68	25.40	186.90
350	14	355.6	3.96	34.34	4.78	41.3	7.92	67.90	9.52	82.367						
400	16	406.4	4.19	41.56	4.78	47.34	7.92	77.82	9.52	94.457						
450	18	457.2	4.19	46.81	4.78	53.32	7.92	87.74	9.52	106.547						
500	20	508.0	4.78	59.31	5.54	68.64	9.53	117.14	12.70	155.12						
600	24	610.0	5.54	82.57	6.35	94.52	9.53	141.11	12.70	186.94						

SHEETS, PLATES & COILS

Type:	Sheets, Plates, Coils, Tubesheets, Circles, Rings, Profiles, Chequered Plates, Perforated Sheets, Strips, Designer sheets etc.
Size:	Thickness: 0.1 mm to 125mm Dimension: As per requirement upto 2500mm width.
Length:	Full Length upto 6mtrs, 12mtrs, Cut Length as per requirement and Coil form.
Finish:	Hot rolled, Cold rolled, 2B, 2D, BA, Satin, Matte, Mirror, PVC Coated etc.

STAINLESS STEEL

Standards:	ASTMA 240, SA240, ASTM A 182 F51, F53 & F55
Grades:	Austenitic: TP 201, 202, 304, 304L, 309, 309S, 310, 310S, 316, 316L, 316Ti, 317, 317L, 321, 347, 904L etc. Ferritic: TP 405, 409, 410, 430, 431 Duplex & Super Duplex: UNS S31254, 31500, 31803, 32205, 32304, 32750, 32760
Make:	Jindal, SAIL, BRG, Outokumpu, Thyssenkrupp, Acerinox, ArcelorMittal, DKC, Posco, etc.

Stockist of Jindal Stainless Ltd., Acerinox, Columbus Stainless Pvt. Ltd., North American Stainless, ArcelorMittal, Outokumpu, Acroni, ThyssenKrupp and other reputed manufacturer worldwide.



CARBON STEEL

Standards: ASTM A515, A516, A537, IS2062.

Grades: IS2062 Grade A, B & C, ASTM A36, IS 2002 Grade 1 & 2, ASTM A516 Grade 60 & 70, ASTM A537 Class 1 & 2.

Make: SAIL, Essar, Tata, Bhushan, Jindal, etc.

HIGH NICKEL ALLOYS

Standards: B162, B127, B43, B576, B168 & B443

Grades: Nickel 200, 201, Monel 400, K500, Inconel 600, 601, 625, 800, 825, 800HT, Hastelloy C22, C276, Nickel Alloys SMO 254, Alloy-20, Titanium Grade 1, 2 & 5.

**OUTO
KUMPU**

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FLATS, ANGLES & CHANNELS

FLATS:

Type:	Hot rolled annealed pickled & Plate cut
Size:	Width: 10mm to 200mm Thickness: 1mm to 50mm
Length:	Full Length upto 6mtrs & Cut Length as per requirement.
Finish:	Hot rolled annealed & pickled condition
Material:	Stainless Steel Austenitic: TP 201, 202, 304, 304L, 309, 309S, 310, 310S, 316, 316L, 316Ti, 317, 317L, 321, 347, 904L Stainless Steel Ferritic: TP 405, 409, 410, 430, 431 Duplex & Super Duplex: UNS S31254, 31500, 31803, 32205, 32304, 32750, 32760, Mild Steel: IS2062 Grade A, AISI 1018, ASTM A36
Standards:	EN, DIN, ASTM, AISI, ASME, JIS, NACE
Tolerance:	ATM A484 EN 10058



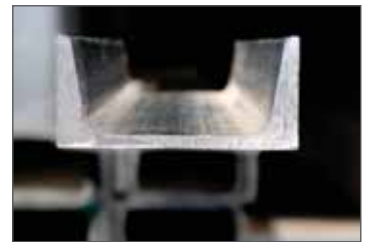
ANGLES:

Type:	Equal & Unequal
Size:	Width: 10mm to 200mm Thickness: 1 mm to 50mm
Length:	Full Length upto 6mtrs & Cut Length as per requirement.
Finish:	Hot rolled annealed & pickled condition
Material:	Stainless Steel Austenitic: TP 201, 202, 304, 304L, 309, 309S, 310, 310S, 316, 316L, 316Ti, 317, 317L, 321, 347, 904L Stainless Steel Ferritic: TP 405, 409, 410, 430, 431 Duplex & Super Duplex: UNS S31254, 31500, 31803, 32205, 32304, 32750, 32760 Mild Steel: IS2062 Grade A, AISI 1018, ASTM A36
Standards:	EN, DIN, ASTM, AISI, ASME, JIS, NACE
Tolerance:	ASTM A484 EN 10058



CHANNELS:

Type:	Equal & Unequal
Size:	Width: 10mm to 200mm Thickness: 1 mm to 50mm
Length:	Full Length upto 6mtrs & Cut Length as per requirement.
Finish:	Hot rolled annealed & pickled condition
Material:	Stainless Steel Austenitic: TP 201, 202, 304, 304L, 309, 309S, 310, 310S, 316, 316L, 316Ti, 317, 317L, 321, 347, 904L Stainless Steel Ferritic: TP 405, 409, 410, 430, 431 Duplex & Super Duplex: UNS S31254, 31500, 31803, 32205, 32304, 32750, 32760 Mild Steel: IS2062 Grade A, AISI 1018, ASTM A36
Standards:	EN, DIN, ASTM, AISI, ASME, JIS, NACE
Tolerance:	ATM A484 EN 10279



KEY FEATURES:

The unparalleled quality of our stainless steel flats, angles and channels are predominantly characterized by the following features:

- Great Adhesion ability
- Superior Weldability
- Great toughness
- Great attention to every order
- Excellent resistance against corrosion
- Superior formability
- Meets exact client specifications
- Less distortion
- Superior tensile strength
- No residual strain in the bar during baking
- Consistent statistical monitoring for accurate results
- 100% pure steel



BARS, RODS & WIRES



RODS & BARS

Type:	Round, Square & Hexagonal
Size:	OD: 3mm to 500mm
Length:	Full Length upto 6mtrs & 12mtrs & Cut Length as per requirement.
Finish:	Hot Rolled, Cold drawn, Centreless Ground & Belt Polished upto RA value = 0.2 um (12 RMS), Grit Polished upto 180 to 600, Smooth Turned, Rough Peeled, High Tensile, Chamfered, etc.
Material:	Stainless Steel Austenitic: TP 201, 202, 304, 304L, 309, 309S, 310, 310S, 316, 316L, 316Ti, 317, 317L, 321, 347, 904L Stainless Steel Ferritic: TP 405, 409, 410, 430, 431 Duplex & Super Duplex: UNS S31254, 31500, 31803, 32205, 32304, 32750, 32760 Mild Steel: IS2062 Grade A, AISI 1018, ASTM A36 Special Metals: Nickel 200, 201, Monel 400, K500, Inconel 600, 601, 625, 800, 825, 800HT, Hastelloy C22, C276, Nickel Alloys SMO 254, Alloy-20, Titanium Grade 1, 2 & 5.
Standards:	EN, DIN, ASTM, AISI, ASME, JIS, NACE
Tolerance:	H8, H9, H10, H11, H12, K12, K13, A484, EN-10060, DIN-1013 etc.





WIRES:

- Type: General, EPQ, Cold heading, Lashing Wire, Rope Wire, etc.
- Size: OD: 0.8mm to 8.00mm
- Length: In cut lengths upto 1000mm, Coil & Bundle form as per requirement.
- Finish: Soft Annealed, 1/4 Hard, 1/2 Hard, 3/4 Hard & Full Hard. Bright Electro polished, Soap coated, Matte finish & Bright Finish
- Material: **Stainless Steel Austenitic:** TP 201, 202, 304, 304L, 309, 309S, 310, 310S, 316, 316L, 316Ti, 317, 317L, 321, 347, 904L
Stainless Steel Ferritic: TP 405, 409, 410, 430, 431
Duplex & Super Duplex: UNS S31254, 31500, 31803, 32205, 32304, 32750, 32760
Special Metals: Nickel 200, 201, Monel 400, K500, Inconel 600, 601, 625, 800, 825, 800HT, Hastelloy C22, C276, Nickel Alloys SMO 254, Alloy - 904L, Alloy-20, Titanium Grade 1, 2 & 5.
- Standards: DIN, ASTM, AISI, ASME, JIS & BS
- Applications: Kitchen Appliances, Wire mesh, Hinges, Fasteners, Nails, Pins, Sprinklers shafting, electrical & mechanical cables, Ropes, Chains, Conveyor Belt & Welding electrodes.





FLANGES



Type : Weldneck [WNRF], Socketweld [SWRF], Slip On [SORF], Blind [BLRF], Lap Joint [LJFF], Screwed [Threaded]
 Sizes : 1/2" NB TO 48"NB
 Dimensional Standards : ANSI B 16.5 : Class 150# To Class 2500#,
 BS10 : Table D, E, F & H
 DIN : 2527, 2576, 2632, 2633, 2634, 2635 & 2642
 Face Type : Flat Face, Raised Face, Ring Joint Face, Lap-joint Face, Large Male-female, Small Male-female, Large Tongue & Groove, Small Tongue & Groove

MATERIAL :

Stainless Steel

Grade : 202, 304, 304L, 310, 316, 316L, 316Ti, 317, 317L, 321, 347, 904L, DUPLEX UNS S32205/31803, SUPER DUPLEX UNS S32750 etc.
 Manufacturing Standards : ASTM A182F , ASTM A240

Carbon Steel

Grade : F42/F46/F52/F56/F60/F65/F70
 Manufacturing Standards : ASTM A105, IS 2002, IS 2062, A516 Gr. 70

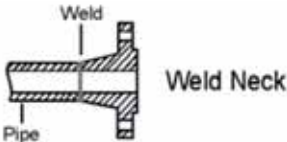
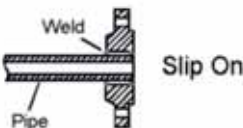
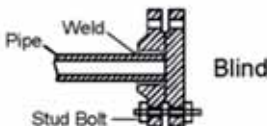
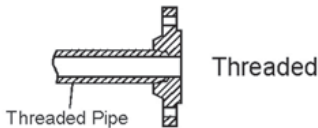
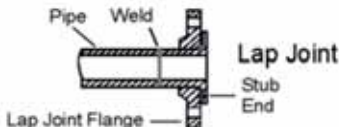
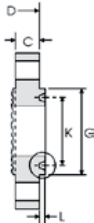
Alloy Steel

Grade : F1, F5, F9, F11, F12, F22, F91
 Manufacturing Standards : ASTM A182

Special Metals:

Grade : Nickel 200, 201, Monel 400, K500, Inconel 600, 601, 625, 800, 825, 800HT, Hastelloy C22, C276 , Nickel Alloys SMO 254, Alloy-20, Titanium Grade 1, 2 & 5.

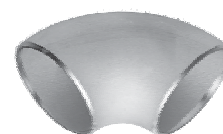


Type	Joining Method	General Description
Weld Neck 		Used in critical applications. These are circumferentially welded onto the system at their necks which means that the integrity of the butt-welded area can easily be examined by X-ray radiography. The bores of both pipe and flange match thus reducing turbulence and erosion.
Slip On 		This is slipped over the pipe and then fillet welded. Easy to use in fabricated applications.
Blind 		Sometimes called a blanking flange, this is used for blanking off pipelines, valves and pumps and as an inspection cover.
Socket Weld 		This is counter-bored to accept the pipe, which is then fillet welded. The bore of both the pipe and the flange are the same to ensure good flows.
Screwed/Threaded 		This requires no welding and is used to connect other threaded components in low pressure noncritical applications.
Lap Joint 		These are always used with either a stub end or a taft which is butt-welded to the pipe with the flange loose behind it. Thus the stub end or the taft always provides the sealing face. Easily assembled and aligned, it is favoured in low pressure applications. To reduce cost these 'backing'
Ring Type Joint 		This can be employed on Weld Neck, Slip On or Blind Flanges for leak-proof connection at high pressures. The seal is made by a metal ring being compressed into a hexagonal groove on the flange face.



BUTTWELD FITTINGS

Type :	45°/90°/180° Long/short Radius Elbows, Equal/reducing tees, Concentric/Eccentric Reducers, Short/long Neck Stubends, Pipe End Caps, Equal/reducing Cross.
Sizes :	1/4" TO 24" (Seamless) 1/4" TO 48" (ERW)
MATERIAL :	
Stainless Steel	
Grade :	202,304,304L,310,316,316L,316Ti,317,317L, 321,347,904L, Duplex UNS S32205/31803, Super Duplex UNS S32750 etc.
Manufacturing Standards :	ASTM/ASME SA 403
Dimensional Standards :	ANSI B 16.9 , B 16.28
Thickness :	SCH 5S to SCH XXS
Carbon Steel	
Grade :	WPB/WPC/WP1/WP12/WPR
Manufacturing Standards :	ASTM/ASME SA 234
Dimensional Standards :	ASME 16.9 , B 16.11
Thickness :	SCH 5S to SCH XXS
Alloy Steel	
Grade :	WP11/WP22/WP5/WP9/WP91
Manufacturing Standards :	Astm/asme Sa 234
Dimensional Standards :	ASME 16.9 , B 16.11
Special Metals:	
Nickel 200, 201, Monel 400, K500, Inconel 600, 601, 625, 800, 825, 800HT, Hastelloy C22, C276 , Nickel Alloys SMO 254, Alloy-20, Titanium Grade 1, 2 & 5.	



45° ELBOW



180° ELBOW



STUB ENDS



CAPS



CONCENTRIC REDUCER



EQUAL TEE



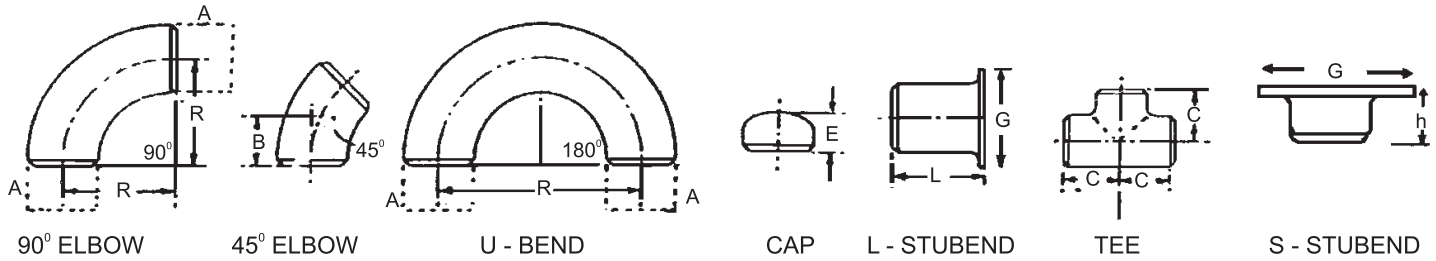
90° ELBOW



ECCENTRIC REDUCER

BUTTWELD FITTINGS

Dimensions: ANSI B16.9 / 16.28



Nom DN	Nom BORE	A O.D.	Radius (R)				B	C	E	L		G	h
			1D	1.5D	2D	3D				Short	Long		
15	1/2	21.34	12.7	38.1	25.4	38.1	15.9	25.4	25.4	50.8	76.2	35	8
20	3/4	26.67	19.05	28.57	38.10	57.15	11.1	28.6	25.4	50.8	76.2	43	8
25	1	33.40	25.4	38.1	50.8	76.2	22.2	38.1	38.1	50.8	101.6	51	10
32	1 1/4	42.16	31.75	47.6	63.5	95.25	25.0	47.6	38.1	50.8	101.6	64	12
40	1 1/2	48.26	38.1	57.15	76.2	114.3	28.6	57.2	38.1	50.8	101.6	73	12
50	2	60.32	50.8	76.2	101.6	152.4	34.0	63.5	38.1	63.5	152.4	92	16
65	2 1/2	73.02	63.5	95.25	127.0	190.5	44.0	76.2	38.1	63.5	152.4	105	16
80	3	88.90	76.2	114.30	152.4	228.6	50.8	85.7	50.8	63.5	152.4	127	18
90	3 1/2	101.60	88.9	133.35	177.8	266.7	57.2	95.3	63.5	76.2	152.4	140	18
100	4	114.30	101.6	152.4	203.2	304.8	63.5	104.8	63.5	76.2	152.4	157	20
125	5	141.30	127.0	190.5	254.0	381.0	82.6	123.8	76.2	76.2	203.2	186	25
150	6	168.27	152.4	228.6	304.8	457.2	95.3	143	88.9	88.9	203.2	216	25
200	8	219.07	203.2	304.8	406.4	609.6	127.0	178.5	101.6	101.6	203.2	270	30
250	10	273.05	254.0	381.0	508.0	762.0	158.7	215.9	127.0	127.0	254.0	324	35
300	12	323.85	304.8	457.2	609.6	914.4	190.5	254.0	152.4	152.4	254.0	381	40
350	14	355.60	355.6	533.4	711.2	1066.8	222.2	280.0	165.1	152.4	305.0	413	-
400	16	406.40	460.4	609.6	812.8	1219.2	254.0	304.8	117.8	152.4	305.0	470	-
450	18	457.20	457.2	685.8	914.4	1371.6	285.7	343.0	203.2	152.4	305.0	533	-
500	20	508.00	508.0	762.0	1016	1524.0	317.8	381.0	228.6	152.4	305.0	584	-
550	24	610	610.0	914.0	-	1829.0	381.0	432.0	267.0	152.4	305.0	692	-
750	30	762	762	1143	-	-	470.0	559.0	267.0	-	-	-	-
900	36	914	914	1372	-	-	565	673	267.0	-	-	-	-
1050	42	1067	1067	1600	-	-	660	762	305	-	-	-	-
1200	48	1219	1219	1829	-	-	759	660	343	-	-	-	-

FORGED FITTINGS

TYPE :

Socket Weld (S/W) & Screwed (SCRD)

SIZES :

1/4" NB to 4" NB in 3000 LBS, 6000 LBS, 9000 LBS available with NACE MR 01-75.

FORM :

Elbow 45° & 90°, Tee, Union, Full & Half Coupling, Cross, Cap, Swage Nipple, Plug, Bush
Outlet's : Weldolet, Sockolet, Elbolet, Thredolet, Nipolet

MATERIAL :

Stainless Steel

GRADE : 202,304,304L,310,316,316L,316Ti,317,317L,321,347,904L, DUPLEX UNS

S32205/31803, Super Duplex UNS S32750 etc.

Manufacturing Standards : ASTM / ASME SA 182

Carbon Steel

Grade : F42/F46/F52/F56/F60/F65/F70

Manufacturing Standards : ASTM A 105/A694 / ASTM A 350 LF3 / ASTM A350 LF2

Alloy Steel

Grade : F1/F5/F9/F11/F12/F22/F91

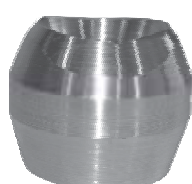
Manufacturing Standards : ASTM A182

Special Metals

Nickel 200, 201, Monel 400, K500, Inconel 600, 601, 625, 800, 825, 800HT, Hastelloy C22, C276, Nickel Alloys SMO 254, Alloy-20, Titanium Grade 1, 2 & 5.



ELBOW



WELDOLET



CROSS



ELBOLET



UNION



TEE



Types:

Bolts, Nuts, Washers, Anchor Fasteners, Stud bolts, Eye bolts, Studs, Threaded Rod, Cotter pin, Socket screw, Fine Fasteners & spares, Foundation fasteners, etc. M10 upto M100, Length from 15mm upto 5000mm.

Size Range:

CATEGORY :

Turned or Machined nuts:

Coupling Nuts, Collar Nuts, Castle Nuts, Dome Nuts, Pipe Nuts, Shear Nuts, Knurled Nuts, Lock Nuts, Eye Nuts, Wing Nuts, Sleeve Nuts, Nyloc Nuts, Case Nuts, Rivet Bush, Studs Washers & Other Special Fasteners Made As Per Drawing. Turned Or Machined Screws, Bolts & Studs: Slotted Screws, Knurled Screws, Capstan Screws, Shear Bolts & Engineering Studs.

Plugs & Pins, Washers & Rings:

Turned, Plain & Cup Washers, Taper Washers, Special Washers, Adjusting Rings, Pins & Plugs & Any Customized Components As Per Specific Drawing Or Requirement.

MATERIAL :

Stainless Steel:

Grade:

Standard: ASTM / ASME A/SA 193 / 194

B8 (304), B8C (SS 347), B8M (SS 316), B8T (SS 321), A2, A4, 201, 202, 309, 310, 317, Duplex & Super Duplex: UNS S31254, 31500, 31803, 32205, 32304, 32750, 32760

Carbon & Alloy Steel

Standard:

Grade:

ASTM / ASME A/SA 193 / 194 GR

ASTM A 106, A 53, API A 5L Gr A, B, C, ASTM A 333, Gr 1 to 6 (IBR & NON IBR), A 105, B6, B7/ B7M, B16, 2, 2HM, 2H.

Condition:

Bare condition, Galvanized, Phosphatised, Cadmium plated, Hot deep galvanized, Bloodied, Nickel chrome plated etc.

Special Metals:

Grade:

Standard: ASTM / ASME SB 160 / 164 / 425 / 166 / 446 / 574 / 472

Nickel 200, 201, Monel 400, K500, Inconel 600, 601, 625, 800, 825, 800HT, Hastelloy C22, C276, Nickel Alloys SMO 254, Alloy - 904L, Alloy-20, Titanium Grade 1, 2 & 5.



Sizes & Specifications other than above can be manufactured on request.



Stainless Steel Technical Information

CHEMICAL COMPOSITION - PERCENT

AISI Grades	C Max	Mn Max	P Max	S Max	Si Max	Cr	Ni	MO	Other Element
JT(201)	0.096	9.5-10.5	0.08	0.001	0.50	15.0/15.5	0.40	--	Cu=1.5-2.0
J4(201)	0.10	8.0/10.0	0.06	0.005	0.75	15./16.5	1.0/2.0	--	Cu=1.5-2.0
J1(202)	0.08	6.0/8.0	0.06	0.05	0.75	16/18	4.0/6.0	--	Cu=1.5-2.0
301	0.15	2.0	0.045	0.040	1.0	16.0/18.0	6.0/8.0	--	--
302	0.15	2.0	0.045	0.030	1.0	17.0/19.0	8.0/10.0	--	--
303	0.15	2.0	0.045	--	1.0	17.0/19.0	8.0/10.0	--	--
304	0.08	2.0	0.045	0.030	1.0	18.0/20.0	8.0/10.0	--	--
304L	0.03	2.0	0.045	0.030	1.0	18.0/20.0	8.0/12.0	--	--
309	0.20	2.0	0.045	0.030	1.0	22.0/24.0	12.0/15.0	--	--
309S	0.08	2.0	0.045	0.030	1.0	22.0/24.0	12.0/15.0	--	--
310	0.25	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	--	--
310S	0.08	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	--	--
316	0.08	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	--
316L	0.03	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	--
316LN	0.03	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	N 0.10/0.16
316TI	0.08	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	TiExCmin
317	0.08	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	3.0/4.0	--
317L	0.035	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	3.0/4.0	--
321	0.08	2.0	0.045	0.030	1.0	17.0/19.0	9.0/12.0	--	Ti5xC Min
347	0.08	2.0	0.045	0.030	1.0	17.0/19.0	9.0/13.0	--	Nb/Ta10xCmin
904L	0.02	2.0	0.045	0.035	1.0	19.0/23.0	23.0/28.0	4.0/5.0	N≤0.10
403	0.15	1.0	0.040	0.030	0.50	11.5/13.0	0.60	--	--
410	0.15	1.0	0.040	0.030	1.0	11.5/13.5	0.60	--	--
410S	0.08	1.0	0.040	0.030	1.0	11.5/13.5	0.06 Max	--	--
414	0.15	1.0	0.040	0.030	1.0	11.5/13.5	1.25/2.50	--	--
420	0.15 min	1.0	0.040	0.030	1.0	12.0/14.0	0.60	--	--
430	0.12	1.0	0.040	0.030	1.0	16.0/18.0	0.60	--	--
431	0.20	1.0	0.040	0.030	1.0	15.0/17.0	1.25/2.50	0.75 max	--
2205	0.03	2	0.030	0.020	1.0	21.0/23.0	4.5/6.5	2.5/3.5	N=0.14/0.20
2507	0.03	1.20	0.035	0.020	0.80	24.0/26.0	6.0/8.0	3.0/5.0	Cu=0.50

MECHANICAL PROPERTIES, MIN

Grades	Tensile Streghth min Ksi (Mpa)	Yield Point min. Ksi (Mpa)	Elongation (G.I.:2 in or 50 min)			Round Specimen	Hardness Test Max.	
			Full Sec. Specimen	Strip Specimen			Brinell	Rockwell
				≥6/16 in	≥5/16 in			
TP 304	75(515)	30(205)	35	35	56t+17.50	28	192	B90
TP 304H	75(515)	30(205)	35	35	56t+17.50	28	192	B90
TP 304L	70(485)	25(170)	35	35	56t+17.50	28	192	B90
TP 304N	80(550)	35(240)	35	35	56t+17.50	28	192	B90
TP 304LN	75(515)	30(205)	35	35	56t+17.50	28	192	B90
TP 309	75(515)	30(205)	35	35	56t+17.50	28	192	B90
TP 310	75(515)	30(205)	35	35	56t+17.50	28	192	B90
TP 316	75(515)	30(205)	35	35	56t+17.50	28	192	B90
TP 316H	75(515)	30(205)	35	35	56t+17.50	28	192	B90
TP 316L	70(485)	25(170)	35	35	56t+17.50	28	192	B90
TP 316N	80(550)	35(240)	35	35	56t+17.50	28	192	B90
TP 316LN	75(515)	30(205)	35	35	56t+17.50	28	192	B90
TP 317	75(515)	30(205)	35	35	56t+17.50	28	192	B90
TP 321	75(515)	30(205)	35	35	56t+17.50	28	192	B90
TP 321H	75(515)	30(205)	35	35	56t+17.50	28	192	B90
TP 347	75(515)	30(205)	35	35	56t+17.50	28	192	B90
TP 347 H	75(515)	30(205)	35	35	56t+17.50	28	192	B90
TP 405	60(414)	30(207)	20	20	*2	-	207	B95
TP 410	60(414)	30(207)	20	20	*2	-	207	B95
TP 429	60(414)	35(241)	20	20	*2	-	190	B90
TP 430	60(414)	35(241)	20	20	*2	-	190	B90
TP 443	70(483)	40(276)	18	18	*2	-	207	B95
TP 446	70(483)	40(276)	20	20	*2	-	207	B95
TP 329	90(621)	70(483)	20	20	*2	-	271	C28
TP 409	60(414)	30(207)	20	20	*2	-	207	B95
TP XM-8	60(414)	30(207)	20	20	*2	-	190	B90
TP 316 TI	75(515)	30(205)	35	35	56t+17.50	28	192	B90

Stainless Steel Universal Standards & Special Metals



VARIOUS UNIVERSAL STANDARDS

Grade	UNS No.	Great Britain		Germany		Swedish SS	Japanese JIS	NF/France
		BS	En	No.	DIN			
301	S30100	301S21	-	1.431	X10CrNi18-8	2331	SUS 301	Z11 CN 18-08
302	S30200	302S25	58 A	1.4319	-	-	SUS 302	
303	S30300	303S31	58M	1.4305	X8CrNiS18-9	2346	SUS 303	Z8 CNF18-09
304	S30400	304S31	58E	1.4301	X5CrNi18-10	2332	SUS 304	Z7 CN 18-09
304L	S30403	304S11	-	1.4306	X2CrNi18-11	2352	SUS 304L	Z3 CN 18-10
304H	S30409	-	-	1.4948	X6CrNi18-11	-	-	Z6 CN 18-09
309S	S30908	309S24	-	1.4833	X12CrNi23-13	-	SUS 309S	Z15 CN 24-13
310	S31000	310S24	-	1.484	X15CrNi25-20	-	SUH 310	-
310S	S31008	310S16	-	1.4845	X8CrNi25-21	2361	SUS 310S	Z15 CNS 25-20
316	S31600	316S31	58H, 58J	1.4401	X5CrNiMo17-12-2	2347	SUS 316	Z7 CND 17-11-02
316L	S31603	316S11	-	1.4404	X2CrNiMo17-12-2	2348	SUS 316L	Z3 CND 17-11-02
316H	S31609	316S51	-	1.4919	-	-	-	-
316N	S31651	-	-	1.4406	X2CrNiMoN17-11-2	2375	SUS 316N	Z3 CND 17-18-Az
316Ti	S31635	320S31	-	1.4571	X10CrNiMoTi18-10	2350	SUS 316Ti	Z6 CNDT 17-12
317	S31700	317S16	-	1.4449	X5CrNiMoTi17-13	-	SUS 317	-
317L	S31703	317S12	-	1.4438	X2CrNiMo18-16	2367	SUS 317L	Z3 CND 19-15-04
321	S32100	321S31	58B, 58C	1.4541	X6CrNiTi18-10	2337	SUS 321	Z6 CNT 18-10
347	S34700	347S31	58G	1.455	X6CrNiNb 18-10	2338	SUS 347	Z6 CNNb 18-10
403	S40300	403S17	-	1.4	X7Cr13	2301	SUS 403	-
409	S40900	409S19	-	1.4512	X6CrTi12	-	SUH 409	-
410	S41000	410S21	56A	1.4006	X12Cr13	2302	SUS 410	-
416	S41600	416S21	56AM	1.4005	X12CrS13	2380	SUS 416	-
420	S42000	420S37	56C	1.4021	X20Cr13	2303	SUS 420J1	Z20 C13
430	S43000	430S17	60	1.4016	X8Cr17	2320	SUS 430	Z8 C17
431	S43100	431S29	57	1.4057	X17CrNi16-2	2321	SUS 431	-
434	S43400	434S17	-	1.4113	X6CrMo17-1	2325	SUS 434	-
440C	S44004	-	-	1.4125	X105CrMo17	-	SUS 440C	-
904L	N08904	904S13	-	1.4539	X1NiCrMoCuN25-20-5	2562	-	Z2NCDU25-20
2205	S31803	318S13	-	1.4462	X2CrNiMoN22-5-3	2377	SUS 329J3L	Z3 CND 22-05 Az
2304	S32304	-	-	1.4362	X2CrNiN23-4	2327	-	Z3 CN 23-04 Az
2507	S32750	-	-	1.441	X2CrNiMoN25-7-4	2328	-	Z3 CND 25-06 Az

CHEMICAL COMPOSITION (SPECIAL METALS)

Grade	Ni (%)	Cu (%)	Fe (%)	Mn (%)	C (%)	Si (%)	S (%)	Al (%)	Ti (%)	Cr (%)	P (%)	Mo (%)	Co (%)	Others (%)
Nickel 200	99.0 min	0.25 max	0.4 max	0.35 max	0.15 max	0.35 max	0.01 max							
Nickel 201	99.0 min	0.25 max	0.4 max	0.35 max	0.02 max	0.35 max	0.01 max							
Monel 400	63.0 min	28.0-34.0	2.5 max	2.00 max	0.30 max	0.50 max	0.02 max	2.50 max						
Monel K-500	63.0-70.0	Bal	2.0 max	1.50 max	0.25 max	0.50 max	0.01 max	2.30-3.15	0.35-0.85					
Inconel 600	72.0 min	0.5 max	8.0-10.0	1.00 max	0.15 max	0.50 max	0.015 max			14.0-17.0				
Inconel 601	58-63	1.0 max	Bal	0.30 max	0.05 max	0.50 max	0.20 max	1.00-1.70		21.0-25.0				
Inconel 625	Bal		5.0 max	0.50 max	0.10 max	0.50 max	0.01 max	0.40 max	0.40 max	20.0-30.0	0.01 max	8.0-10.0	1.00 max	Nb+Ta : 3.15-4.15
Inconel 800	30.0-35.0	0.75 max	39.5 min	1.50 max	0.10 max	1.00 max	0.015 max	0.15-0.60	0.15-0.60	19.0-23.0				
Inconel 825	38.0-46.0	1.5-3.0	22.0 min	1.00 max	0.05 max	0.50 max	0.03 max	0.20 max	0.60-1.20	19.5-23.5		2.50-3.50		
Inconel 800HT	30.0-35.0		39.5 min	1.50 max	0.06-0.10	1.00 max	0.015 max	0.15-0.60	0.15-0.60	19.0-23.0				Al+Ti : 0.85-1.20
Hastelloy C-276	Bal		4.0-7.0	1.00 max	0.01 max	0.08 max	0.03 max			14.5-16.5	0.04 max	15.0-17.0	2.50 max	V : 0.35 max
Hastelloy C-22	Bal		2.0 - 6.0	0.50 max	0.01 max	0.08 max	0.02 max			20.0-22.5	0.02 max	12.5-14.5	2.50 max	V : 0.35 max
Sm254	17.5-18.5	0.5-1.0		1.00 max	0.02 max	0.80 max	0.01 - 0.03			19.5-20.5		6.00-6.50		N : 0.18-0.22
Alloy904L	23.0-28.0	1.05-2.0		2.00 max	0.02 max	1.00 max	0.035 max			19.0-23.0	0.03 max	4.00-5.00		
Alloy 20	32.0-38.0	3.0-4.0	Bal	2.00 max	0.07 max	1.00 max	0.035 max			19.0-21.0	0.045 max	2.00-3.00		CB : 1.00 max

COPPER & COPPER ALLOYS

Copper: Copper Rods, Flats, Strips, Tape, Section, Copper Sheets, Plates, Busbars, Wire, Copper Tubes For General Engineering, Ecofriendly Copper Tubes, Medical Grade Copper Pipes, Fin Tubes Copper, Copper Plumbing Tubes, Copper Capillary Tubings, Pvc Coated Copper Tubes, Level Wound Copper Coil, Copper Fittings & Flanges

Grades / Specs

Alloy/ASTM/BS: CML GRADE/B88/2871, ETP GRADE/B188-C11000/2871-C-101, C-102, DHP GRADE/C12200/C-106, DLP GRADE/B75-C12000/2871-C-106



Cupro Nickel: CuNi Rods, CuNi Flats, CuNi Plates, CuNi Pipes, CuNi Tubes, CuNi Fittings & Flanges

Grades / Specs

Alloy/ASTM/BS: 70:30 CuNi/C71500/CN-107, 90:10 CuNi/C70600/CN-102, 95:05 CuNi/C70400/CN-101



Brass : Brass Rods, Brass Flats, Brass Strips, Brass Sheets, Brass Pipes, Brass Tubes, Brass Fittings & Flanges

Grades / Specs

Alloy/ASTM/BS: 63:37 Grade/C27000/CZ-108, 70:30 GRADE/C26000/CZ-126, Admiralty Brass/C44300/CZ-111, Aluminium Brass/C68700/CZ-110



Aluminium Bronze: AL. Bronze Round Bars, AL. Bronze Square Bars, AL. Bronze Hex Bars, AL. Bronze Flat Bars, AL. BRONZE Hollow Bars

Grades / Specs

Alloy/ASTM/BS/EN: AL. Bronze 1/C62300/CA103/CW305G, AL. Bronze 2/C63000/CA104/CW307G, AL. SL. Bronze /C64200/CA107/CW302G



Phosphor Bronze: PH. Bronze Round Bars, PH. Bronze Square Bars, PH. Bronze Hex Bars, PH. Bronze Flat Bars, PH. Bronze Hollow Bars

Grades / Specs

Alloy/ASTM/BS: C51000/B-100,103,139/2874 PB-102, C51100/B-103/2874 PB-101, C52100/B-103,139/2874 PB-104, C52400/B-103,139/1400 PB-1

Silicon Bronze: Sl. Bronze Round Bars, Sl. Bronze Square Bars, Sl. Bronze Hex Bars, Sl. Bronze Flat Bars, Sl. Bronze Hollow Bars

Grades / Specs

Alloy/ASTM: Low Sl. Bronze/C65100, High Sl. Bronze/C65500, High Sl. Bronze/c65600, High Sl. Bronze/c66100, Cuni2si/c64700



Manganese Bronze: Mn. Bronze Round Bars, Mn. Bronze Square Bars, Mn. Bronze Hex Bars, Mn. Bronze Flat Bars, Mn. Bronze Hollow Bars

Grades / Specs

Alloy/ASTM: Manganese Bronze B/C67400, Manganese Bronze A/C67500



Gunmetal: Gunmetal Round Bars, Gunmetal Square Bars, Gunmetal Hex Bars, Gunmetal Flat Bars, Gunmetal Hollow Bars

Grades / Specs

Alloy/ASTM: BS 1400 G1/ASTMB505





QUALITY

- As a result of continuous improvement, with strong emphasis on quality and customer satisfaction, today the company is ISO 9001-2015 certified and has become one of the most reliable sources of quality products in the Domestic & International Market.
- At Steelage, our products are inspected under the observation of expert engineers which ensures superior quality products with excellent durability, corrosion resistance power and super furnished to meet almost every demand from leading engineering consultants.
- To ensure that our products are of the most premium quality, we have sophisticated testing facilities to carry out various inspections and tests to ensure superior quality and sustainability.
- Quality and testing Equipments includes:
 - Mechanical & chemical testing.
 - In-house PMI machine.
 - Corrosion & ultrasonic testing.
 - Polishing and grinding machine.
 - Spectrometer for chemical analysis.
 - Hydro testing



Our products can be approved and inspected by any of these globally renowned inspection agencies like : EIL, LLOYD'S, BVQI, BVIS, TUV, SGS, UHDE, TEIL, LINDE, DAVY, JE, DNV, PDIL, MECON, NCPL, BHEL, IBR, L&T etc.



APPLICATIONS

Over these years of our inception, we have grown into a highly established brand and serve a considerable range of industries from domestic as well as international markets.

This category includes :

Chemical & fertilizers, Pharmaceuticals, Oil & Gas Industries, Power plants, Food & dairies, Heat exchangers, Pulp & paper, Automobile, Boilers, Evaporators & recuperators, Condensers, Space application etc.



GLOBAL PRESENCE

Steelage Alloys LLP is a truly global company with an international reach and presence, world-class capabilities and capacities having widespread experience, expertise, best-in-class systems & standards. With a footprint spanning 25 countries in 5 continents, the Company today is amongst the leading and largest provider of steel, metal and alloy products.





STEELAGETM

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