

We almost deliver everything in Steel



- STAINLESS COMMITMENT
- STAINLESS QUALITY
- STAINLESS SERVICES



JS Ocean Ancillaries
Pledging Stainless Quality & Services



Company Profile

JS Ocean Ancillaries has recognized India as a need zone for development. As a piece of this activity, we had set up cutting edge fabricating office in INDIA, for delivering all type of ferrous & non-ferrous metals, especially AISI 304, 304L, 316, 316L, 321, 410, 431 and other percentages item namely Hastalloy, Monel, Nickel, Titanium & others. To make accessible world-class items made in India takes into account the corner markets of all the rising divisions like Oil and Gas, Refineries, Petrochemicals, power Plants, Steels processing plants, Forging industries etc.

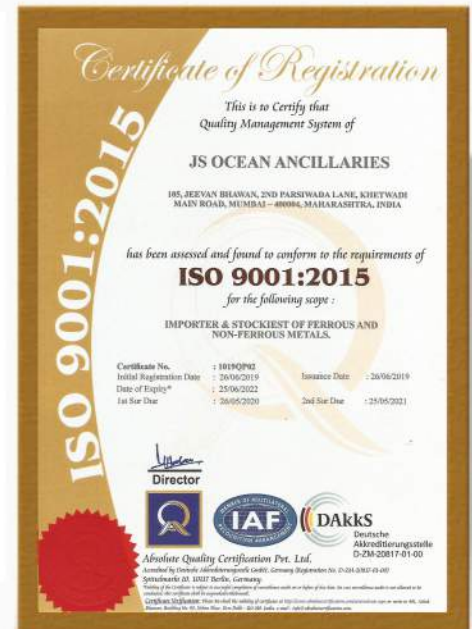
Quality also remains a top priority at JSOA. as we continue to remain true with our service goals, we also strive to maintain compliance with the highest degree of quality & business standards set forth by ISO 9001 : 2015 Certification of Conformance. All of our employees understand that on-time delivery and fulfillment of a product with zero defects is necessary to guarantee a successful business relationship with our customers. Great service must include great product quality.

Quality Policy

Quality Assurance plans are prepared in accordance with specific requirements stated by the customer and respective ASTM specifications, Mandatory and supplementary requirements are translated to special instructions and audits performed during manufacture and inspection.

inspection stages and check hold points are decided to carry out in process inspections and record important stages of inspection and test.

Third party Inspection Agencies



PRODUCT RANGE

OUR PRODUCT RANGE

STAINLESS STEEL
AUSTENITIC STEEL
FERRITIC STEEL
MARTENSITIC STEEL
DUPLEX STEEL
SUPER DUPLEX STEEL
ALLOY STEEL
CARBON STEEL
QUENCHED & TEMPERED STEEL
HARDOX
INCONEL
MONEL
HASTELLOY
TITANIUM
SPECIAL METAL, ALLOY

SEAMLESS PIPES

ASTM A 106 GR. B/C
ASTM A333 GR> 6
ASTM A335 P1/5/9/11/12/22/91
ASTM A 312 TP 304 (L) / 316 (L) / 321 (H) / 347 (H)
Duplex UNS S31803
Duplex UNS S32750
Alloy 625 / 800 (H) 825
API 5L GR. B / X42-X65
ASTM A53
EN 10025 S355
Tubing ASTM A179/A269/B111/Etc.



PRODUCT RANGE

WELDED PIPE

ASTM A 671 / 672

ASTM A 691 Low Alloy

ASTM A515 / 516

ASTM A53

API 5L Gr. B/X42-X100

ASTM A312 TP 304 (L) /316 (L)

ASTM A928 S31803 / 32205/32750

FITTINGS

ELBOWS LR / SR

CONC. REDUCERS

ECC. REDUCERS

TEES

REDUCING TEES

LATERAL TEES

CROSS

CAPS

FORGED FITTINGS

FORGED OLETS

FLANGES

WEDING NECK RF/RTJ

SOCKET WELD

SLIP ON

LAP JOINT

BLIND RF/RTJ

LONG WELDING NECK

ORIFICE FLANGE

COMPACT FLANGE

SWIVEL FLANGE

ANCHOR FLANGE

SPADE / SPACER



Chemical Composition of Stainless Steel

Stainless Steel is essentially a low carbon steel which contains chromium at 10% or more by weight. It is this addition of chromium that gives the steel its unique stainless corrosion resisting Properties. The corrosion resistance and other useful properties of the steel are enhanced by increased chromium content and the addition of other elements such as molybdenum, nickel and nitrogen

Chemical Composition of Stainless Steel											Nearest Equivalent Specification		
UNS NO.	EN	BS	AISI Grade	C Max	Mn Max	P Max	S Max	Si Max	Cr	Ni	Mo	Cu	I.S.

Austenitic

S20100	-	-	201	0.15	5.5/7.5	0.06	0.03	1	16.0/18.0	3.5/5.5	-	-	-
S20200	-	-	202	0.15	7.5/10	0.06	0.03	1	17.0/19.0	4.0/6.0	-	-	-
S30100	-	301S21	301	0.15	2.0max	0.045	0.040	1.0	16.0/18.0	6.0/8.0	-	-	10Cr17Ni7
S30200	-	-	302	0.15	2.0	0.045	0.030	1.0	17.0/19.0	8.0/10.0	-	-	07Cr18Ni9
S30300	-	303S31	303	0.15	2.0	0.045	0.15 min	1.0	17.0/19.0	8.0/10.0	-	-	15Cr18Ni9
S30400	1.4301	-	304	0.08	2.0	0.045	0.030	1.0	18.0/20.0	8.0/10.0	-	-	04Cr18Ni10
S30403	1.4307	304S11	304L	0.030	2.0	0.045	0.030	1.0	18.0/20.0	8.0/12.0	-	-	02Cr18Ni11
S30453	1.4306	304S61	304LN	0.030	2.0	0.045	0.030	0.75	18.0/20.0	8.0/11.0	-	-	-
S30409	-	-	304H	0.05	2.0	0.045	0.03	1	18.0/20.0	8.5/9.5	-	-	-
S30900	-	309S16	309	0.20	2.0max	0.045	0.030	1.0	22.0/24.0	12.0/15.0	-	-	20Cr24Ni12
S30908	1.4833	-	309S	0.08	2.0	0.045	0.030	1.0	22.0/24.0	12.0/15.0	-	-	-
S31009	-	-	310H	0.25	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	-	-	10Cr25Ni12
S31008	1.4845	-	310S	0.08	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	-	-	-
S31600	-	316S31	316	0.08	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	04Cr17Ni12Mo2
S31603	1.4404	316S11	316L	0.030	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	03Cr17Ni12Mo2
S31653	-	316S61	316LN	0.030	2.0	0.045	0.030	0.75	16.0/18.0	10.0/14.0	2.0/3.0	-	-
S31635	1.4571	320S31	316Ti	0.080	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	-
S31700	-	-	317	0.08	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	3.0/4.0	-	-
S31703	-	317S12	317L	0.030	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	3.0/4.0	-	-
S31753	-	-	317LN	0.03	2.0	0.045	0.03	1	18.0/20.0	11.0/15.0	3.0/4.0	-	-
S32100	1.4541	321S31	321	0.08	2.0	0.045	0.030	1.0	17.0/19.0	9.0/12.0	-	-	04Cr18Ni10Ti20
S34700	-	347S31	347	0.08	2.0	0.045	0.030	1.0	17.0/19.0	9.0/12.0	-	-	04Cr18Ni10Nb-40
N08904	1.4539	-	904L	0.02	2.0	0.045	0.035	1	19.0/23.0	23.0/28.0	4.0-5.0	-	-

Ferritic

S41000	-	410S21	410	0.15	1.00	0.040	0.030	1.0	11.50-13.50	0.75	...	...	...
S41008	1.4000	403S17	410S	0.08	1.00	0.040	0.030	1.0	11.50-13.50	0.60	...	...	...
S42900	-	-	429 ^o	0.12	1.00	0.040	0.030	1.0	14.00-16.00	...	...	...	...
S43000	1.4016	430S17	430	0.12	1.00	0.040	0.030	1.0	16.00-18.00	0.75	...	...	...
S43035	-	-	439	0.07	1.00	0.040	0.030	1.0	17.00-19.00	0.050	...	0.04	...
S44400	-	-	444	0.025	1.00	0.040	0.030	1.0	17.5-19.5	1.00	1.75-2.50	0.035	...
			446	0.20	1.50	0.040	0.030	0.50	11.40 / 13.00	-	-	-	-
	-	-	409L	≤0.030	≤1.00	≤1.00	-	-	-	10.50-11.75	~	-	-

Duplex & Super Duplex

S31803	1.4462	-	---	0.030	2.00	0.030	0.020	1.0	21.0-23.0	4.5-6.5	2.5-3.5	---	0.08-0.20
S32550	-	-	255 ^o	0.040	1.50	0.040	0.030	1.0	24.0-27.0	4.5-6.5	2.9-3.9	1.50-2.50	0.10-0.25
S32750	1.441	-	2507	0.030	1.20	0.035	0.020	0.8	24.0-26.0	6.0-8.0	3.0-5.0	0.50	0.24-0.32
S32760	-	-	---	0.030	1.00	0.030	0.010	1.0	24.0-26.0	6.0-8.0	3.0-4.0	0.50-1.00	0.20-0.30

PIPES / TUBES



MATERIAL SPECIFICATIONS

Nickel Alloy

ASTM / ASMESB 163 UNS 2200 (Nickel 200)
ASTM / ASMESB 163 UNS 2201 (Nickel 201)
ASTM / ASMESB 163/165 UNS 4400 (Monel 400)
ASTM / ASMESB 464 UNS 8020(Alloy 20 /20CB 3)
ASTM / ASMESB 704/705 UNS 8825 INCONEL (825)
ASTM / ASMESB 167/517 UNS 6600 INCONEL (600)
ASTM / ASMESB 167 UNS 6601 INCONEL (601)
ASTM / ASMESB 704/705 UNS 6625 INCONEL (625)
ASTM / ASMESB 619/622/626 UNS 10276 HASTELLOY C 276

Stainless Steel

ASTM / ASME SA 312 Gr. TP 304, 304 L, 304H, 309S, 309H,
310, 310H, 316, 316TI, 316H, 318LN, 317, 317L, 321, 321H,
347, 347H, 904L ASTM / ASME SA 358 CL 1 & CL 3 Gr. 304,
304H, 309H, 309S, 309H, 310H, 316, 316TI, 316H, 321, 321H,
347, 347H

Duplex Steel

ASTM / ASME SA 790 UNS No: 31803 / 32760

Carbon Steel

ASTM / ASME A 53 Gr. A & b, ASTM A 106 Gr. A, B & C API 5L
Gr. B, API 5L X 42, X 46, X52, X60, X65 & X70. ASTM / ASME A
691 Gr. A, B & C

Alloy Steel

ASTM / ASME A 335 Gr. P1, P5, P9, P11, P12, P22, P23, P 91
ASTM / ASME A 691 Gr. 1 CR, 11 / 4 CR, 21 / 4 CR

Copper Alloy

ASTM / ASME SB 111 UNS No. C 10100, 10200, 10300, 10800,
12000, 12000, 70600, 71500
ASTM / ASME SB 466 UNS No. C 70600 (cu-Ni-90/10), C 71500
(Cu-Ni-70/30) IBR & Non IBR

We have a large scale unit engaged in stocking and exporting Carbon Steel Tubes / Pipes and Carbon steel welded pipes, Carbon Steel welded tubes and electrogalvanised steel tubes/pipes. We supply for engineering purpose, ERW pipes for water, gas & sewerage, carbon steel tubes for idlers of belt conveyors, water wells and lancing pipes for various automotive & Industrial applications

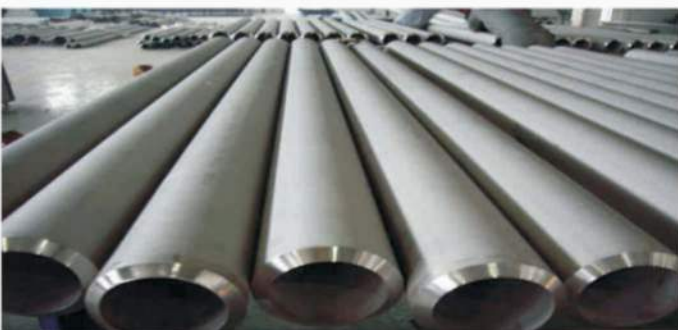
Seamless Pipes

ASTM A 106 Gr. B/C
ASTM A 333 Gr. 6
ASTM A335 P1/5/9/11/12/22/91
ASTM A312 TP 304 (L) / 316 (L) / 321
(H) / 347 (H)
Duplex UNS S31803
Duplex UNS S32750
Alloy 625 / 800 (H) 825
API 5L Gr, B/ X42-X65
ASTM A53
EN 10025 S355
Tubing ASTM A179 / A269 / B111 / Etc.

Welded Pipes

ASTM A 671 / 672
ASTM A 691 Low Alloy
ASTM A515 / 516
ASTM A53
API 5L Gr, B/ X42-X100

ASTM A312 TP304 (L) / 316 (L)
ASTM A 928 S31803 / 32205 / 32750



Stainless Steel Pipe Dimension

STAINLESS STEEL PIPE DIMENSION AS PER ASTM AND WEIGHT KG. PER MTR. (ANSI B 36.19 - 1965)

Nominal Bore		Outside Diameter	Schedule 5S		Schedule 10S		Schedule 20S		Schedule 40S		Schedule 80S		Schedule 160S		Schedule 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)	Wt mm	Weight (Kg/mt)
3	1/8	10.3	1.24	0.276	1.24	0.28	1.5	0.33	1.73	0.37	2.41	0.47	-	-	-	-
6	1/4	13.7	1.24	0.390	1.65	0.49	2.00	0.58	2.24	0.631	3.02	0.80	-	-	-	-
10	3/8	17.1	1.24	0.490	1.65	0.63	2.00	0.74	2.31	0.845	3.20	1.10	-	-	-	-
15	1/2	21.3	1.65	0.800	2.11	1.00	2.30	1.07	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	2.55	1.52	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	2.55	1.94	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	3.38	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	3.00	3.55	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	3.00	4.24	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	4.00	6.81	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	4.00	8.37	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	4.50	12.18	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	5.00	16.80	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	6.35	25.36	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	6.35	33.31	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	6.35	41.77	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	6.35	49.7	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	7.92	67.80	11.13	94.59	19.05	158.08	35.71	281.70	-	-
400	16	406.4	4.19	41.56	4.78	47.29	7.92	77.83	12.7	123.30	21.41	203.33	40.46	365.11	-	-
450	18	457.2	4.19	46.80	4.78	53.42	7.92	87.71	14.27	155.80	23.8	254.36	45.71	466.40	-	-
500	20	508.0	4.78	59.25	5.54	68.71	9.53	117.14	15.09	183.42	26.19	311.2	49.99	564.68	-	-
600	24	609.6	5.54	82.47	6.35	94.45	9.53	141.12	17.48	255.41	30.96	442.08	59.54	808.22	-	-

BUTTWELD FITTINGS



MATERIAL SPECIFICATIONS

We manufacture and supply of a wide range of Buttweld fitting that are available in varied types, grades and materials. These fittings are highly acknowledged for their high tensile strength, durability and accurate alloy composition. These find application in several industries such as Oil & Gas, Automobile, Acid & Chemical, Pharmaceutical and cement industries. We are known for our buttweld fittings.

Type of Buttweld Fittings

- * Tee
- * Elbow
- * Reducing Tee
- * Coupling
- * Long & Short Stub end
- * Reducer
- * Return Bends
- * Plug & Union
- * Cap
- * Collar
- * Cross, etc.

High Nickel Alloys : Nickel, Monel, Inconel, Hastelloy, Copper, Brass, bronze, titanium, tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead Etc.

Stainless Steel : ASTM A403 WP 304 / 304L/ 301H / 316 / 316L / 317 / 317L / 321 / 310 / 317 / 904L etc.

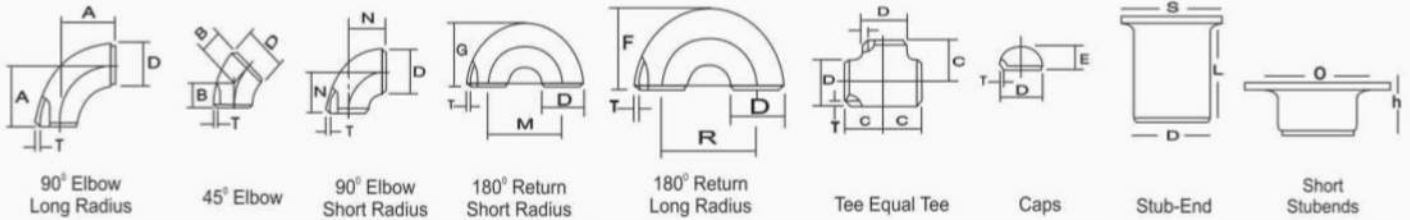
Carbon Steel : ASTM A234 WPB / A420 WPL 3 / A420 / WPL6/ MSS-SP-75 WPHY 42/46/52/56/60/65/70/ A53 Gr. B / ASM 192 / A179 etc.

Alloy Steel : ASTM A 234 WP1 / WP5 / WP9 / WP11/ WP 22 / WP 91 etc.

Size : 1/4 " NB to 31" NB (Seamless & Welded)
Wall Thickness : Sch 5S to Sch XXS



DIMENSIONS OF BUTT-WELDING FITTING ANSI B-16.9 / B-16.28 / MSS SP-43



Nominal Pipe Size		Outside Diameter D	Center to Face				Back to Face			Center to Center			Length 'L' MSS SP 43 B16.9			
INCH	MM		A R=1.5D	B	C	N R=1D	E	F	G	R	M	S	Short L	Long L	O	H
1/2	15	21.3	38.00	16.0	25.0	-	25.0	48.0	-	76.0		35.0	50.8	76.2	42	8
3/4	20	26.7	29.00	11.0	29.0	-	25.0	43.0	-	57.0		43.0	50.8	76.2	52	8
1	25	33.4	38.00	22.0	38.0	25.0	38.0	56.0	41.0	76.0	51.0	51.0	50.8	101.6	62	10
1.1/4	32	42.2	48.00	25.0	48.0	32.0	38.0	70.0	52.0	95.0	64.0	64.0	50.8	101.6	72	12
1.1/2	40	48.3	57.15	29.0	57.0	38.0	38.0	83.0	62.0	114.0	76.0	73.0	50.8	101.6	82	12
2	50	60.3	76.00	35.0	64.0	51.0	38.0	106.0	81.0	152.0	102.0	93.0	63.5	152.4	98	16
2.1/2	65	73.0	95.25	44.0	76.0	64.0	38.0	132.0	100.0	191.0	127.0	105.0	63.5	152.4	118	16
3	80	88.9	114.30	51.0	86.0	76.0	51.0	159.0	121.0	229.0	152.0	127.0	63.5	152.4	130	18
3.1/2	90	101.6	133.35	57.0	95.0	89.0	64.0	184.0	140.0	267.0	178.0	140.0	76.2	152.4	140	18
4	100	114.3	152.0	64.0	105.0	102.0	64.0	210.0	159.0	305.0	203.0	157.0	76.2	152.4	158	20
5	125	141.3	190.0	79.0	123.0	127.0	76.0	262.0	197.0	381.0	254.0	186.0	76.2	203.2	188	25
6	150	168.3	229.0	95.0	143.0	152.0	102.0	313.0	237.0	457.0	305.0	218.0	88.9	203.2	215	25
8	200	219.1	305.0	127.0	178.0	203.0	89.0	414.0	313.0	610.0	406.0	270.0	101.6	203.2	270	30
10	250	273.1	381.0	159.0	216.0	254.0	102.0	515.0	391.0	762.0	508.0	324.0	127	254.0	325	30
12	300	323.8	457.0	190.0	254.0	305.0	127.0	619.0	467.0	914.0	610.0	381.0	152.4	254.0	380	35
14	350	355.6	533.0	222.0	279.0	356.0	152.0	711.0	533.0	1067.0	711.0	413.0	152.4	305.0	415	40
16	400	406.4	610.0	254.0	305.0	406.0	165.0	813.0	610.0	1219.0	813.0	470.0	152.4	305.0	470	40
18	450	457.2	686.0	286.0	343.0	457.0	178.0	914.0	686.0	1372.0	914.0	533.0	152.4	305.0	530	40
20	500	508.0	762.0	318.0	381.0	508.0	203.0	1016.0	762.0	1524.0	1016.0	584.0	152.4	305.0	585	40
22	550	559.0	838.0	343.0	419.0	559.0	229.0	1118.0	838.0	1676.0	1118.0	614.4	152.4	305.0	614	40
24	600	610.0	914.0	381.0	432.0	610.0	254.0	1219.0	914.0	1829.0	1219.0	692.0	152.4	305.0	692	40
26	650	660.0	991.0	405.0	495.0	660.0	267.0									
28	700	711.0	1067.0	438.0	521.0	771.0	267.0									
30	750	762.0	1143.0	470.0	559.0	762.0	267.0									
32	800	813.0	1219.0	502.0	597.0	813.0	267.0									
34	850	864.0	1295.0	533.0	635.0	864.0	267.0									
36	900	914.4	1372.0	565.0	673.0	914.0	267.0									



All Dimensions in Millimeters

SOCKET WELD FITTINGS



MATERIAL SPECIFICATIONS

We offer to our clients specially designed forged pipe fittings. We also undertake raw projects as per the drawings and specifications of the client for forged fittings. The product is delivered in short time frame. We offer special forged pipes fittings in different metals which find application in various industries. We can offer forged fittings in following materials of construction :-

- * Nickel & Copper Alloy
- * Stainless Steel
- * Carbon Steel
- * Alloy Steel



High Nickel Alloys : Nickel, Monel, Inconel, Hastelloy, Copper, Brass, bronze, titanium, tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead Etc.

Stainless Steel : ASTM A182 F 304 / 304L/ 301H / 316 / 316L / 317 / 317L / 321 / 310 / 317 / 904L etc.

Carbon Steel : ASTM A105 / A694 / F42 / 46 / 52 / 56 / 60 / 65 / 70 / A 350 LF3 / A350 LF2

Alloy Steel : ASTM A 182 F1 / F5 / F9 / F11/ F 22 / F 91 etc.

Types : Elbow, Tee, Union, Cross, Coup Bushing, Plug, Swage Nipple, Welding Boss, Hexagon Nipple, Barrel nipple, Welding Nipple, Parralel Nipple, Street Elbow, Hexagon Nut, Hose Nipple, Bend, Adaptor, Insert, Weldolet, Elbowlet, Sockolet, Thredolet, Nipolet, Letrolet etc.

Size : 1/4 " NB to 4" NB (Socketweld & Threaded)

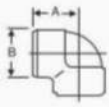
Class : 3000#, 6000#, 9000#

Wall Thckness : Sch 5S to Sch XXS

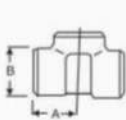


DIMENSION IN MM OF FORGED SCREWED FITTINGS TO ANSI B-16.11 THREADED TO ASA B 2.1

90° ELBOWS



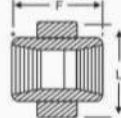
TEE



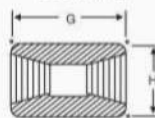
45° ELBOW



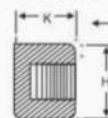
UNION



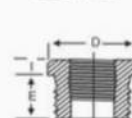
COUPLING



PIPE CAP



BUSHING



HEX HEAD PLUG

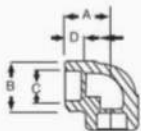


HALF COUPLING = G/2

NOM BORE	PIPE O.D.	3000 L.B.S.					COMMON FACTORS							6000 L.B.S					
		A	B	C	G	H	K	D	E	F	I	J	L	A	B	C	G	H	K
1/8"	10.3	21	22	17	32	16	19	11	10	40	-	6	-	25	25	19	32	22	-
1/4"	13.7	25	25	19	35	19	25	16	11	43	3	6	32	29	33	22	35	25	27
3/8"	17.2	29	33	22	38	22	25	17.5	13	48	4	8	38	33	38	25	38	32	27
1/2"	21.3	33	38	25	48	29	32	22	15	51	5	8	46	38	46	29	48	38	33
3/4"	26.7	38	46	29	51	35	37	27	16	57	6	10	51	44	56	33	51	44	38
1"	33.4	44	56	33	60	44	41	35	19	64	6	10	60	51	62	35	60	57	43
1 1/4"	42.2	51	62	35	67	57	44	44.5	21	70	7	14	72	60	75	43	67	64	46
1 1/2"	48.3	60	75	43	79	64	44	51	21	79	8	16	80	64	84	44	79	76	48
2"	60.3	64	84	45	86	76	48	63.5	22	88	9	17	94	83	102	52	86	92	51
2 1/2"	73.02	83	102	52	92	92	60	76	27	118	10	21	122	95	121	64	92	108	64
3"	89.0	95	121	64	108	108	65	89	29	121	10	25	140	106	146	79	108	127	68
4"	114.5	114	152	79	121	140	68	117.5	32	150	13	25	180	114	152	79	121	159	75

SOCKET WELD FITTING TO ANSI B-16.11

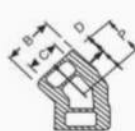
90° ELBOWS



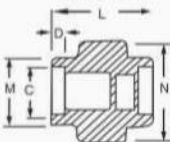
TEE



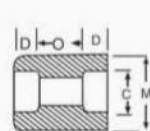
45° ELBOW



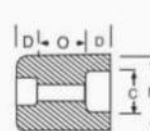
UNION



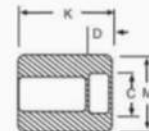
COUPLING



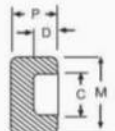
REDUCER



HALF COUPLING



CAP



NOM BORE	PIPE O.D.	3000 L.B.S.									COMMON FACTORS				6000 L.B.S				
		A	B	K	J	L	M	N	P	Q	C min	D min	O min	O max	A	B	M	K	N
1/8"	10.3	22	18.5	26	16	40	17.3	32	17.5	10	10.7	10	5	8	22	22	20	25	46
1/4"	13.7	22	22	26	18	43	21.2	32	17.5	10	14.1	10	5	8	27	25	24	25	51
3/8"	17.2	25	25	26	19	48	25.4	36	19	10	17.6	10	3	9	27	28	28	26	60
1/2"	21.3	27	32	30	21	51	31	43	22	10	21.7	10	6	13	31	34	34	31	72
3/4"	26.7	34	38	36	24	57	37	50	25	13	27	13	6	13	37	42	41	35	80
1"	33.4	37	46	40	25	64	45.2	60	27	13	33.8	13	9	17	42	50	50	40	94
1 1/4"	42.2	42	56	40	29	70	55	70	30	13	42.6	13	9	17	47	59	58	4	1
100																			
1 1/2"	48.3	47	62	40	30	79	61.4	78	32	13	48.7	13	9	17	53	67	55	4	3
122																			
2"	60.3	56	75	52	37	89	75	95	38	13	61.2	16	15	23	59	84	83	55	
2 1/2"	73.02	60	92	52	48	114	91.3	125	38	16	73.8	16	14	24		102		56	
3"	89.00	76	110	52	51	127	108.8	140	44	16	89.8	16	14	24		121		58	
4"	114.50	88	137	58		150	136.9		48	19	115.5	19	14	24		152		64	

DIMENSIONS AND OTHERS SPECIFICATIONS AS PER CUSTOMERS REQUIREMENTS ARE AVAILABLE ON REQUEST

FLANGES



MATERIAL SPECIFICATIONS

We offer our clients a wide range of Flanges that are available in varied types, grades and materials manufactured or sourced from reliable manufacturers. These fittings are highly acknowledged for their high tensile strength, durability and accurate alloy composition. These find application in several industries such as Oil & Gas, Automobile, Acid & Chemical, Pharmaceutical and cement industries. Based on the sizes, dimensions, shapes and length of these flanges, we can customize the products for our respected clients and offer in the following material of construction.

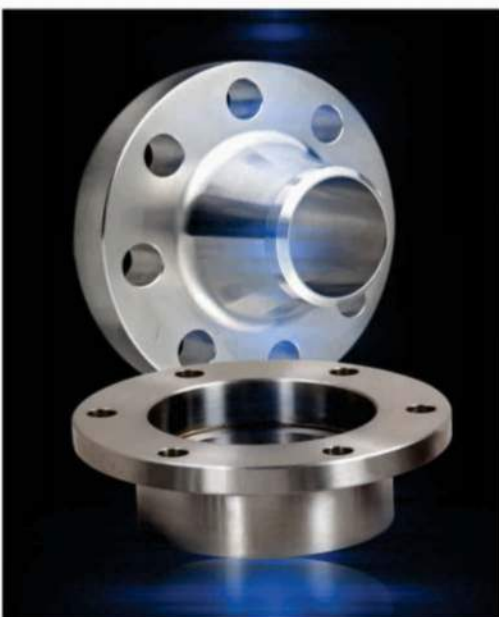
Nickel & Copper Alloy

Stainless Steel & duplex Steel

Carbon Alloy Steel

Carbon Steel Low temperature

Alloy Steel



High Nickel Alloys : Nickel, Monel, Inconel, Hastelloy, Copper, Brass, bronze, titanium, tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead Etc.

Stainless Steel : ASTM A182 F 304 / 304L/ 301H / 316 / 316L / 317 / 317L / 321 / 310 / 317 / 904L etc.

Carbon Steel : ASTM A105 / A694 / F42 / 46 / 52 / 56 / 60 / 65 / 70 / A 350 LF3 / A350 LF2

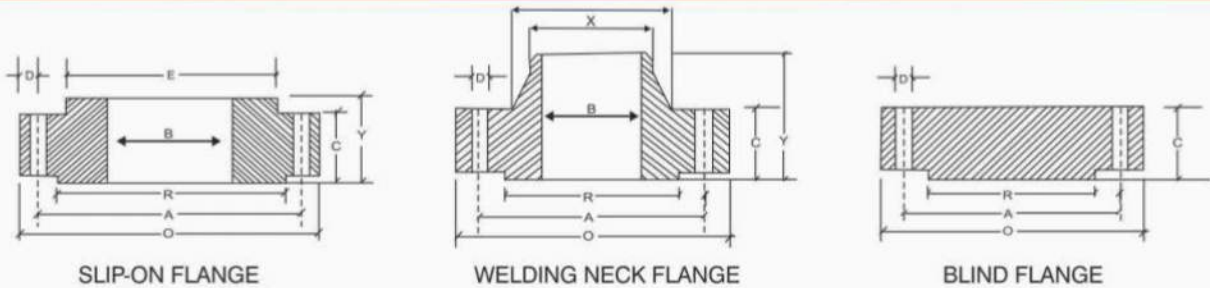
Alloy Steel : ASTM A 182 F1 / F5 / F9 / F11/ F 22 / F 91 etc.

Types : Welding neck Rf/RTJ. Socket weld, Slip on, Lap Joint, Blind RF/RTJ, Long Welding Neck, Orifice, Compact Flange, Swivel Flange, Anchor Flange, Spade / Spacer

Size : 1/2 " NB to 24" NB

Class : 150#, 300#, 600#, 900#, 1500#, 2500#

DIMENSIONS OF FORGED FLANGES AS PER ANSI 16.5



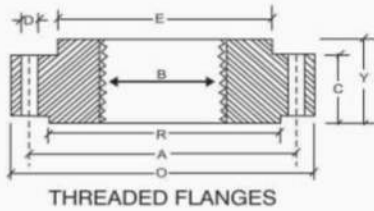
DIMENSIONS OF CLASS 150 FLANGES AS PER ANSI B 16.5

Nominal Pipe Size		Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Length Through Hub			Dia of Bore		Dia of R/F	Depth of Socket	Pipe Dia
								S/O & S/W	W/N	L/J	S/O & S/W	L/J			
(MM)	(INCH.)	O	A	D		C	E	Y	Y	Y	B	B	R	F	X
15	1/2	88.9	60.3	15.9	4	11.1	30.2	15.9	47.6	15.9	22.3	22.9	34.9	9.5	21.33
20	3/4	98.4	69.8	15.9	4	12.7	38.1	15.9	52.4	15.9	27.7	28.2	42.9	11.1	26.67
25	1	107.9	79.4	15.9	4	14.3	49.2	17.5	55.6	17.5	34.5	35.0	50.8	12.7	33.40
32	1 1/4	117.5	88.9	15.9	4	15.9	58.7	20.6	57.1	20.6	43.2	43.7	63.5	14.3	42.16
40	1 1/2	127.0	98.4	15.9	4	17.5	65.1	22.2	61.9	22.2	49.5	50.0	73.0	15.9	48.26
50	2	152.4	120.6	19.0	4	19.0	77.8	25.4	63.5	25.4	62.0	62.5	92.1	17.5	60.31
65	2 1/2	177.8	139.7	19.0	4	22.2	90.5	28.6	69.8	28.6	74.7	75.4	104.8	19.0	73.02
80	3	190.5	152.4	19.0	4	23.8	107.9	30.2	69.8	30.2	90.7	91.4	127.0	20.6	88.90
100	4	228.6	190.5	19.0	8	23.8	134.9	33.3	76.2	33.3	116.1	116.8	157.2	-	114.30
125	5	254.0	215.9	22.2	8	23.8	163.5	36.5	88.9	36.5	143.8	144.5	185.7	-	141.30
150	6	279.4	241.3	22.2	8	25.4	192.1	39.7	88.9	39.7	170.7	171.4	215.9	-	168.27
200	8	342.9	298.4	22.2	8	28.6	246.1	44.4	101.6	44.4	221.5	222.2	269.9	-	219.07
250	10	406.4	361.9	25.4	12	30.2	304.8	49.2	101.6	49.2	276.3	277.4	323.8	-	273.05
300	12	482.6	431.8	25.4	12	31.8	365.1	55.6	114.3	55.6	327.1	328.2	381.0	-	323.85
350	14	533.4	476.2	28.6	12	34.9	400.0	57.1	127.0	79.4	359.1	360.2	412.7	-	355.60
400	16	596.9	539.7	28.6	16	36.5	457.2	63.5	127.0	87.3	410.5	411.2	469.9	-	406.40
450	18	635.0	577.8	31.7	16	39.7	504.8	68.3	139.7	96.8	461.8	462.3	533.4	-	457.20
500	20	698.5	635.0	31.7	20	42.9	558.8	73.0	144.5	103.2	513.1	514.3	584.2	-	508.00
600	24	812.8	749.3	34.9	20	47.6	663.6	82.5	152.4	111.1	615.9	615.9	692.1	-	609.60

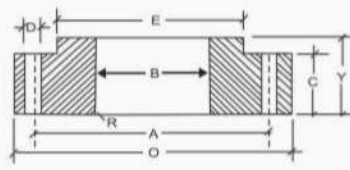
DIMENSIONS OF CLASS 300 FLANGES AS PER ANSI B 16.5

Nominal Pipe Size		Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Length Through Hub			Dia of Bore		Dia of R/F	Depth of Socket	Pipe Dia
								S/O & S/W	W/N	L/J	S/O & S/W	L/J			
(MM)	(INCH.)	O	A	D		C	E	Y	Y	Y	B	B	R	F	X
15	1/2	95.2	66.7	15.9	4	14.3	38.1	22.2	52.4	22.2	22.3	22.9	34.9	9.5	21.33
20	3/4	117.5	82.5	19.0	4	15.9	47.6	25.4	57.1	25.4	27.7	28.2	42.9	11.1	26.67
25	1	123.8	88.9	19.0	4	17.5	54.0	27.0	61.9	27.0	34.5	35.0	50.8	12.7	33.40
32	1 1/4	133.3	98.4	19.0	4	19.0	63.5	27.0	65.1	27.0	43.2	43.7	63.5	14.3	42.16
40	1 1/2	155.6	114.3	22.2	4	20.6	69.8	30.2	68.3	30.2	49.5	50.0	73.0	15.9	48.26
50	2	165.1	127.0	19.0	8	22.2	84.1	33.3	69.8	33.3	62.0	62.5	92.1	17.5	60.31
65	2 1/2	190.5	149.2	22.2	8	25.4	100.0	38.1	76.2	38.1	74.7	75.4	104.8	19.0	73.02
80	3	209.5	168.3	22.2	8	28.6	117.5	42.9	79.4	42.9	90.7	91.4	127.0	20.6	88.90
100	4	254.0	200.0	22.2	8	31.8	146.0	47.6	85.7	47.6	116.1	116.8	157.2	23.8	114.30
125	5	279.4	234.9	22.2	8	34.9	177.8	50.8	98.4	50.8	143.8	144.5	185.7	-	141.30
150	6	317.5	269.9	22.2	12	36.5	206.4	52.4	98.4	52.4	170.7	171.4	215.9	-	168.27
200	8	381.0	330.2	25.4	12	41.3	260.3	61.9	111.1	61.9	221.5	222.2	269.9	-	219.07
250	10	444.5	387.3	28.6	16	47.6	320.7	66.7	117.5	95.2	276.3	277.4	323.8	-	273.05
300	12	520.7	450.8	31.7	16	50.8	374.6	73.0	130.2	101.6	327.1	328.2	381.0	-	323.85
350	14	584.2	514.3	31.7	20	54.0	425.4	76.2	142.9	111.1	359.1	360.2	412.7	-	355.60
400	16	647.7	571.5	34.9	20	57.2	482.6	82.5	146.0	120.6	410.5	411.2	469.9	-	406.40
450	18	711.2	628.5	34.9	24	60.3	533.4	88.9	158.7	130.2	461.8	462.3	533.4	-	457.20
500	20	774.7	685.8	34.9	24	63.5	587.4	95.2	161.9	139.7	513.1	514.3	584.2	-	508.00
600	24	914.4	812.8	41.3	24	69.8	701.7	106.4	168.3	152.4	615.9	615.9	692.1	-	609.60

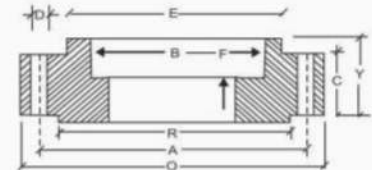
All Dimensions are in Millimeters • Flanges except Lap Joint will be furnished with (1.6mm) Raised Face, which is included in Thickness(C) and Length through Hub(Y).



THREADED FLANGES



LAP JOINT FLANGES



SOCKET WELD FLANGES

DIMENSIONS OF CLASS 600 FLANGES AS PER ANSI B 16.5

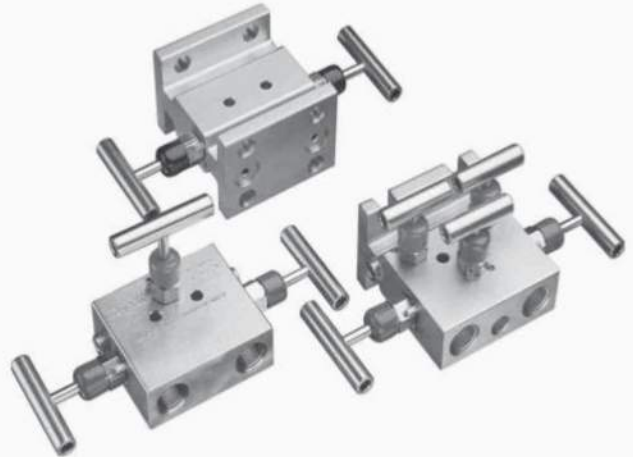
Nominal Pipe Size (MM)	Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No. of Holes	Thk of Flange C	Dia of Hub E	Lenght through Hub			Dia of Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
							Y	Y	Y	B	B			
15	95.2	66.7	15.9	4	14.3	38.1	22.2	52.4	22.3	22.3	22.8	34.9	9.5	21.33
20	117.5	82.5	19.0	4	15.9	47.6	25.4	57.1	25.4	27.7	28.1	42.9	11.1	26.67
25	123.8	88.9	19.0	4	17.5	54.0	27.0	61.9	26.9	34.5	35.0	50.8	12.7	33.40
32	133.3	98.4	19.0	4	20.6	63.5	28.6	66.7	28.4	43.2	43.6	63.5	14.2	42.16
40	155.6	114.3	22.2	4	22.2	69.8	31.7	69.8	31.7	49.5	50.0	73.0	15.8	48.26
50	165.1	127.0	19.0	8	25.4	84.1	36.5	73.0	36.5	62.0	62.4	92.1	17.4	60.31
65	190.5	149.2	22.2	8	28.6	100.0	41.3	79.4	41.1	74.7	75.4	104.8	19.0	73.02
80	209.5	168.3	22.2	8	31.8	117.5	46.0	82.5	45.9	90.7	91.4	127.0	20.6	88.90
100	273.0	215.9	25.4	8	38.1	152.4	54.0	101.6	53.8	116.1	116.8	157.2	-	114.30
125	330.2	266.7	28.6	8	44.4	188.9	60.3	114.3	60.4	143.8	144.5	185.7	-	141.30
150	355.6	292.1	28.6	12	47.6	222.2	66.7	117.5	66.5	170.7	171.4	215.9	-	168.27
200	419.1	349.2	31.7	12	55.6	273.0	76.2	133.3	76.2	221.5	222.2	269.9	-	219.07
250	508.0	431.8	34.9	16	63.5	342.9	85.7	152.4	111.2	276.3	277.4	323.8	-	273.05
300	558.8	488.9	34.9	20	66.7	400.0	92.1	155.6	117.3	327.1	328.2	381.0	-	323.85
350	603.2	527.0	38.1	20	69.9	431.8	93.7	165.1	127.0	359.1	360.1	412.7	-	355.60
400	685.8	603.2	41.3	20	76.2	495.3	106.4	177.8	139.7	410.5	411.2	469.9	-	406.40
450	742.9	654.0	44.4	20	82.6	546.1	117.5	184.1	152.4	461.8	462.3	533.4	-	457.20
500	812.8	723.9	44.4	24	88.9	609.9	127.0	190.5	165.1	513.1	514.3	584.2	-	508.00
600	939.8	838.2	50.8	24	101.6	717.5	139.7	203.2	184.1	615.9	615.9	692.1	-	609.60

DIMENSIONS OF CLASS 900 FLANGES AS PER ANSI B 16.5

Nominal Pipe Size (MM)	Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No. of Holes	Thk of Flange C	Dia of Hub E	Lenght through Hub			Dia of Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
							Y	Y	Y	B	B			
15	120.6	82.5	22.2	4	22.2	38.1	31.7	60.3	31.7	22.3	22.8	34.9	9.5	21.33
20	130.2	88.9	22.2	4	25.4	44.4	34.9	69.8	35.0	27.7	28.1	42.9	11.1	26.67
25	149.2	101.6	25.4	4	28.6	52.4	41.3	73.0	41.1	34.5	35.0	50.8	12.7	33.40
32	158.7	111.1	25.4	4	28.6	63.5	41.3	73.0	41.1	43.2	43.6	63.5	14.2	42.16
40	177.8	123.8	28.6	4	31.8	69.8	44.4	82.5	44.4	49.5	50.0	73.0	15.8	48.26
50	215.9	165.1	25.4	8	38.1	104.8	57.1	101.6	57.1	62.0	62.4	92.1	17.4	60.31
65	244.5	190.5	28.6	8	41.3	123.8	63.5	104.8	63.5	74.7	75.4	104.8	19.0	73.02
80	241.3	190.5	25.4	8	38.1	127.0	53.9	101.6	53.8	90.7	91.4	127.0	-	88.90
100	292.1	234.9	31.7	8	44.4	158.7	69.8	114.3	69.8	116.0	116.8	157.2	-	114.30
125	349.2	279.4	35.0	8	50.8	190.5	79.3	127.0	79.2	143.7	144.5	185.7	-	141.30
150	381.0	317.5	31.7	12	55.6	234.9	85.8	139.7	85.8	170.6	171.4	215.9	-	168.27
200	469.9	393.7	38.1	12	63.5	298.4	101.6	162.0	114.3	221.4	222.2	269.9	-	219.07
250	546.1	469.9	38.1	16	69.8	368.3	107.9	184.1	127.0	276.3	277.3	323.8	-	273.05
300	609.6	533.4	38.1	20	79.3	419.1	117.4	200.0	142.7	327.1	328.1	381.0	-	323.85
350	641.3	558.8	41.3	20	85.7	450.9	130.2	212.7	155.6	359.1	360.1	412.7	-	355.60
400	704.8	615.9	44.4	20	88.9	508.0	133.3	215.9	165.9	410.5	411.2	469.9	-	406.40
450	787.4	685.8	50.8	20	101.6	565.2	152.4	228.6	190.5	461.8	462.3	533.4	-	457.20
500	857.2	749.3	54.0	20	107.9	622.3	158.7	247.6	209.5	513.1	514.3	584.2	-	508.00
600	1041.4	901.7	66.5	20	139.7	749.3	203.2	292.1	266.7	615.9	615.9	692.1	-	609.60

All Dimensions are in Millimeters. Flanges except Lap Joint will be furnished with (6.35mm) Raised Face, which is not included in Thickness(C) and Lenght through Hub(Y).

FERRULE FITTING / TUBE FITTING



UNION

- Blukhead Union
- Reducing Union
- Union
- Union Cross
- Union Elbow
- Male Elbow
- Female Elbow

COUPLING

- Hex Coupling
- Hex Reducing Coupling

NIPPLE

- Hex Nipple
- Pipe Cap
- NPT Male/Female ISO Parallel
- NPT Male/Female ISO Tampered

ADAPTER

- O-Seal Pipe
- O-Seal Straight
- Male Adapter
- Male/Female ISO Tampered
- Male/Female ISO Parallel
- Female Adapter

TEE

- Male Branch Tee
- Male Run Tee
- Female Branch Tee
- Union Tee
- Female Run Tee

PLUG

- Plug

REDUCER

- Reducer

CONNECTOR

- Back Ferrule
- Front Ferrule
- Parker Ferrule
- Coupling Cap/Nut
- Fitting End Closure
- Tube End Closure
- Male Connector
- Female Connector
- O-Seal Pipe Thread Connector
- O-Seal Straight Thread Connector

SHEETS / COILS / PLATES



MATERIAL SPECIFICATIONS

we have been offering to our clients a vast range of sheets and coils that are offered in various specifications to our clients. catering to the requirements of various industries, our range is known for its corrosion resistance, durability & high tensile strength.

our clients can avail from us plates that are manufactured using high grade stainless steel. These cater to the requirements of various industries and are known for their attributes, such as high tensile strength, corrosion resistance & long life usage. further, we also have the expertise to customize our range as per the requirements of the clients.

Carbon Steel

Alloy Steel

Nickel Alloys

Stainless Steel



Nickel Alloy

ASTM / ASMESB 163 UNS 2200 (Nickel 200)

ASTM / ASMESB 163 UNS 2201 (Nickel 201)

ASTM / ASMESB 163/165 UNS 4400 (Monel 400)

ASTM / ASMESB 464 UNS 8020(Alloy 20 /20CB 3)

ASTM / ASMESB 704/705 UNS 8825 INCONEL (825)

ASTM / ASMESB 167/517 UNS 6600 INCONEL (600)

ASTM / ASMESB 167 UNS 6601 INCONEL (601)

ASTM / ASMESB 704/705 UNS 6625 INCONEL (625)

ASTM / ASMESB 619/622/626 UNS 10276 HASTELLOY C 276

Stainless Steel

ASTM / ASME SA 312 Gr. TP 304, 304 L, 304H, 309S, 309H.

310, 310H, 316, 316TI, 316H, 318LN, 317, 317L, 321, 321H, 347, 347H, 409, 410, 420, 430 etc.

Duplex Steel

ASTM / ASME SA 790 UNS No: 31803 / 32760

Carbon Steel / Boiler Quality Plates

As per IS 2062 / ASTM A 36, Gr, A,B&C, IS 2002 Gr. 1&2

ASTM A 516 Gr. 60 & 70.

Alloy Steel

ASTM A 387 Gr. 2,5,9,11,12& 22 in class 1 &2. ASTM A 204 Gr. A &B, DIN 1/1/5 Gr. 15 Mo3 & 16 Mo3 with IBR certificate

Range : 0.5mm to 200 mm thickness to 3000 mm width & 2500 mm to 12500 mm length with NACE MR 01-75

RODS / BARS



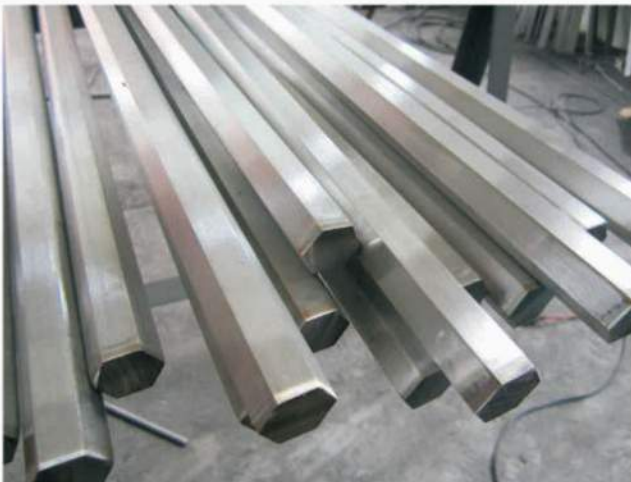
MATERIAL SPECIFICATIONS

We are offering to our clients a wide range of Round Bars that are available in varied grades of Stainless steel, Carbon steel, Nickel alloys and Alloy steel. Our round bars have great utility as machinery equipment in various industries and for diverse architectural purposes. These round bars feature superior polish, excellent finish, sturdy construction and high tolerance level.

Nickel & Copper Alloy

Stainless & Duplex Steel

Carbon & Alloy Steel



High Nickel Alloys : Nickel, Monel, Inconel, Hastelloy, Copper, Brass, bronze, titanium, tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead Etc.

Stainless Steel : ASTM A 276/ A 314 / A 582/A 479 & A 484 Gr. TP 304 /304L/304H/304LN/309/309S/309H/310S /310H/316/316L/316H/316LN/316TI/ 317/317L/321 / 321H/347/347H/348/348H/409/410/420/430/430F etc.

Carbon Steel : ASTM A105 & IS 2062 Gr. A & B

Alloy Steel : ASTM A 182 Gr. F1, F2, F3, F5, F9, F11, F12, F22, F91 etc.

EN Series : En8, En9, En19, En24, C45, C45cr, SAE 4140, 20mncr5 etc.

Type : Round Bar, Wires, Hex, Square, Rectangle

FASTENERS



MATERIAL SPECIFICATIONS

We hold expertise in offering Fasteners such as Nuts, Bolts, Washers, Anchor bolts, Stud Bolts, Threaded rod to our clients. These are manufactured utilizing high grade stainless steel, Carbon steel, Duplex steel, Monel, Inconel, Hastelloy, Titanium, and other Nickel Alloys assuring high tensile strength and corrosion resistance. Our range finds applications in numerous industries and is offered in varied sizes as per customers requirements.

Salient Features

- Severe vibration under impulse pressure
- Static pressure
- High tolerance
- Dimensional Preciseness
- Corrosion Resistance
- Perfect installation & application
- Long life
- Sturdy construction
- Fast performance

High Nickel Alloy : Monel, Nickel, Inconel, Hastelloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth, Aluminum, High Speed Steel, Zinc, Lead Etc.

Stainless Steel : AISI 302, 304, 304L, 316, 316L, 310, 317, 317L, 321, 347, 410, 420, 904L etc.

Alloy Steel : 4.6, 5.6, 6.6, 8.8, 10.9 7 12.9 / 'R', 'S', 'T' conditions

Carbon Steel : Bare condition, Galvanized, Phosphetised, Cadium Plated, Hot Deep Galvanized, Bloodied, Nickel Chrome Plated etc.

Non Ferrous Metal : Copper, Brass, Aluminium, Nichrome, Al. bronze Phosphorous, Bronze etc.

Types : Bolts, Nuts, Washers, Anchor Bolts, Stud Bolts, Eye Bolts, Stud, Threaded Rod, Cotter Pin, Socket Screw, Foundation Fasteners & Spares etc.



NICKEL BASED ALLOYS - SPECIFICATIONS

Nickel 200

Commercially pure (99.6%) wrought nickel with good mechanical properties and resistance to a range of corrosive media. Good thermal, electrical and magnetostrictive properties.

UNS N02200 BS 3072-3076 (Na11) ASTM B 160 B 163 B 725 B730 ASME SB. 160-SB. 163, Boiler Code Sections III, VIII, IX

Specifications and Designations

DIN 17740, 17750-17754 / Werkstoff Nr. 2.4060 / 2.4066

Monel 400

A nickel-copper alloy with high strength and excellent corrosion resistance in wide a range of media.

UNS NO4400 MIL-T-1368, BS 3072-3076 (NA 13) ASTM B Boiler Code Section III, IV, VIII, IX NACE MR-01-75

Specifications and Designations

MIL-T-23520

Werkstoff Nr. 2.4360, 2.4361 / QQ-N-281

Inconel 600

A nickel-chromium alloy with good oxidation resistance at high temperatures and resistance to chloride-ion stress corrosion cracking corrosion by high-purity water and causing corrosion.

Specifications and Designations

DIN 17742, 17750-17754

Werkstoff No. 2.4061

Inconel 601

A nickel-chromium alloy with an addition of aluminum for outstanding resistance to oxidation and other forms of high temperature corrosion. It also has high mechanical properties at elevated temperatures.

UNS NO6601 ASME Boiler Code Section I, III, VIII, IX SAE AMS 5540, 5580, 5665 ASTM B 166-B 165 B 68

Specifications and Designations

UNS NO6601 DIN 17742, 17750-17752

ASME Boiler Code Section VIII

Werkstoff No. 2.4851

SAE Ams 5715,5870

ASTM B 166-B 165

Inconel 825

A nickel-chromium alloy with additions of molybdenum and copper. It has excellent resistance to both reducing and oxidizing acids to stress corrosion cracking and to localized attack such as pitting and crevice corrosion.

*Plus Ta ^{if} determined

UNS NO 8825

BS 3072-3074, 3076 (NA16)

ASTM B-163, B-423, B-425

ASME SB-163, SB-423-SB-425

Boiler Code Section III,

VIII, IX

Specifications and Designations

DIN 17744, 17750-17752, 17752

Werkstoff No. 24858

VdrUV 432

AFNOR NFe32 C200U

Nickel 201

Commercially pure (99.6%) wrought nickel essentially the same as Nickel 200 but with a lower carbon content to prevent embrittlement by intergranular carbon temperatures over 600 oF (3015oC).

UNS N02201 BS 3072-3076 (Na12) ASTM B 160 B 163 B 725, B730 ASME SB. 160-SB. 163, Boiler Code Sections III, VIII, IX

Specifications and Designations

SAE AMS 5553 / DIN 17740, 17750-17754

Werkstoff Nr. 2.4061, 2.4068 / VdTUV 345

Monel K-500

Corrislon-hardenable nickel-copper alloy that combines on resistance of Monel alloy 400 with greater hardness. It also has low permeability and is to under -1 5PF (-101 T).

MONEL ALLOY K-500 / BS 3072-3076 (NA 13)

ASTM B Boiler Code Section VIII / NACE MR-01-75

Specifications and Designations

MIL-N-24549 DIN 17743, 17752, 17752

WERKSTOFF NR. 2.4375 / QQ-N-286

Inconel-625

A nickel-chromium-molybdenum alloy with an addition of niobium that acts with the molybdenum to stiffen the alloy's matrix and thereby provide high strength without a strengthening heat treatment and resists a wide range of severely corrosive environments.

*Plus Ta ^{if} determined

UNS N06625

BS 3072, 3074, 3076 WA21)

ASTM B443, B444, B446

B564, B704, B705, B761

ASME SB-443, SB-44, SB-446, SB-564

Boiler code Sections I, III, VIII, IX

Specifications and Designations

SAE AMS 5561, 5599, 5666, 5337

DIN 17744, 17750-17752, 17754

Werkstoff No. 2.4856

NACE MR0175

AFMOR NC 22.ONB

Inconel 800

A nickel-iron-chromium alloy with good strength and excellent resistance to oxidation and carburization in high temperature atmospheres. environments. The alloy maintains a stable, austenitic structure during prolonged exposure to high temperature.

UNS NO 8800 / 8S 3072-3076 (NA 15)

ASTM B-163, B-407-B409 / ASME SB-163, SB 407-SB-409, SB-564

Boiler Code Section I, III, VII, IX

Specifications and Designations

S.E.W. 470

Werkstoff Nr. 14876 / B514, B515, B564, B751

NICKEL BASED ALLOYS - SPECIFICATIONS

Inconel 800HT

A nickel-iron-chromium alloy having the same basic composition as INCONEL 800 but with significantly higher creep-rupture strength. The higher strength results from close control of the carbon, aluminium and titanium contents in conjunction with a higher-temperature anneal.

Specifications and Designations

UNS NO 8811
 ASTM B-163, B407- B409, B514, B515, B564, BS 3072, 3074, 3076 (NA15H)

ASME SB-163, SB-407-SB-409, SB-564,
 Boiler Code Sections I, VIII
 Workstoff Nr. 14876
 SEW 471

Hastelloy C - 276

A nickel-Molybdenum-chromium alloy with an addition of Tungsten having excellent corrosion resistance in a wide range of severe environments. The high molybdenum content makes the alloy especially resistant to pitting and crevice corrosion.

Specifications and Designations

UNS N10276
 ASTM B-574, B-575, B-619, B-622, B-626, B-751
 NACE MR-01-75
 DIN 17744, 17750-17752
 ASME SB-574, SB-575, SB-619, SB-622, SB-626,
 Boiler Code Sections I, III, VIII, IX.
 Workstoff Nr. 2.4819.

Alloy - 904L

904L is a non-stabilised low carbon high alloy austenitic stainless steel, The addition of copper to this grade gives greatly improved resistance to strong reducing acids.

Alloy - 20

Alloys 20 is one of the so-called "super" stainless steels that was designed for maximum resistance to acid attack, It's nickel, chromium, molybdenum and copper content contribute to its overall resistance to chloride on stress corrosion cracking and general pitting attack. The alloy is stabilized with columbium to minimize carbide precipitation during welding.

Hastelloy C - 22

is a fully austenitic in advanced temperatures. This alloy provides exceptional resistance to general corrosion, pitting, crevice corrosion. UNS N06022; W. Nr. 2, 4602; NiC21Mo14W

Specifications and Designations

UNS NO 6022	ASME SB-574, SB-575, SB-
ASTM B-574, B-575, B-619	619 SB-622, SB-626
B-622, B-626	Section VIII Div.I
DIN 17744, 17750	Werkstoff Nr. 2.4602

*Hastelloy is a registered trademark of Haynes International

Nickel Alloys Smo - 254

Avesta Sheffield 254 SMO is an austenitic stainless Steel which due to its high Molybdenum possesses very high resistance to pitting and crevice corrosion. The steel grade was developed by Avesta Sheffield for use in Halide-containing environments. 254 SMO is a registered trademark of Avesta Sheffield AB.

Titanium

Titanium Grade 1

Grade 1 has very good weld ability. Being substantially single-phase material, the micro structure of the alpha phase is not affected greatly by thermal treatments or welding temperatures.

Titanium Grade 2

Grade 2 has very good weld ability. Being substantially single phase material, the micro structure of the alpha phase is not affected greatly by thermal treatments or welding temperatures.

Titanium Grade 5

Since the two-phase micro structure of alpha-beta titanium alloys responds to thermal treatment, the temperatures encountered during the welding cycle can affect the material being welded.

Cupro - Nickel (90 /10)

Widely used in condensers, coolers and heat exchangers, where corrosion resistance and erosion is paramount, yet maintaining a high conductivity rate preferably used in marine conditions.

Cupro - Nickel (70 /30)

Improved corrosion resistance and almost insensitive to stress corrosion, this alloy will give superior result in high velocity polluted water including sea water. A reduced thermal conductivity level but will retain at moderately increases temperatures.



- NATURAL GAS
- WATER DISPOSAL
- CHEMICAL ENGINEERING
- CEMENT INDUSTRIES



- REFINERY PLANTS
- OIL & GAS INDUSTRIES
- POWER
- SHIP BUILDING



JS Ocean Ancillaries

Pledging Stainless Quality & Services

Corporate office:

Office No.101, 105 "Jeevan Bhavan" 2nd Parsiwada lane,
nr. Alankar Theater, behind Wilson school, Mumbai - 400004, India

Tel: + 91 22 66363290 / +91 22 49613193

Mob.: + 91 98203 69290 / +91 90221 18444

Email: jsoceanancillaries@gmail.com / sales@jsoasteel.com

www.jsoasteel.com