

**ROTEX Group
of Company**



1997-2022



ROTEX METALS
— SMART BUSINESS —

(AN ISO 45001:2018 / 9001:2015 / 14001:2015 CERTIFIED CO.)

DEALERS, STOCKISTS & SUPPLIERS OF : FERROUS AND NON-FERROUS

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**ROTEX Group
of Company**

We Deliver in STEEL



ROTEX METALS
— SMART BUSINESS —

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REQUESTS TO BUSINESS ALLIANCES

SUB.: REGISTRATION OF OUR FIRM IN YOUR APPROVED LIST OF VENDOR FOR STAINLESS STEEL, CARBON STEEL, ALLOY STEEL PIPES, PIPE FITTING PLATES, RODS, ROUND, ETC.

Dear Sir,

With great pleasure we take this opportunity to introduce ourselves as one of the leading manufacturer and Exporter of big size pipes, pipe fittings, flanges etc. we are also the stockiest and dealers of stainless steel, pipes (seamless & ERW), pipe fittings, plates, rods, rounds, carbon steel and alloy steel pipe, instruments tubes PVC coated tubes etc to various well reputed multinational companies all over India. We came to understand that you are in need of the above items for your projects and other maintenance or expansion and if so we can be of your assistance by providing our quality items against your firm requirements.

Ours is a proprietary concern well versed in project and maintenance supplies in the line of Chemicals, Fertilizers, Petrochemical Refineries, Shipyards, Oil fields, Cement, Paper etc. We are approved by a number of consultants and well reputed companies all over India and we are making our supplies regularly to them. We can supply with any third party inspections as per the requirements of our clients.

We are enclosing herewith our company profile, list of items in our range of product under manufacturing and also in stock for your ready reference. If you need, we can send our product catalog after knowing your interest in our products. If any forms are to be furnished for Vendor registration, the same can be submitted to you on priority.

We are requesting you to kindly enlist our name in your approved list of vendors and send us your valuable inquiries for your present and future requirements.

Thanking you in the meantime assuring you of our best co-operation at all times, we are,

Yours faithfully,

For ROTEX METALS



Proprietor

Quality Policy



We are committed to continuously upgrade our knowledge and skills to improve the efficiency of our organisation and strive for outstanding quality of our products.

We assure quality of our products by satisfying the customer's requirement and by perfecting our systems and procedures through involvement of our employees.

We promise to deliver : Quality service at the most reasonable price, at the right time, at the right place and with right documents.





ROTEX METALS

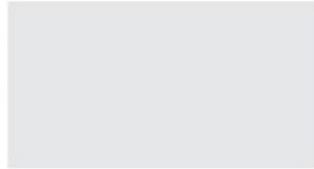
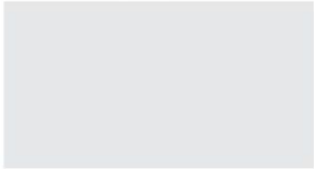
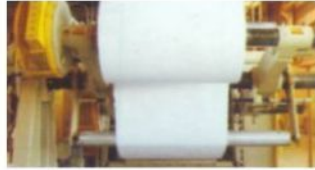
SMART BUSINESS

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Industrial Application

Industrial APPLICATION



- BEVERAGE
- CEMENT
- CHEMICALS & FERTILIZERS
- CONSTRUCTION
- ENGINEERING
- FOOD
- NUCLEAR & THERMAL
- OIL & GAS
- PAPER & PULP
- PHARMACEUTICALS
- REFINERIES & PETROCHEMICALS
- SHIP BUILDING
- SUGAR

Our Esteemed Clients



GACL-NALCO Alkalies & Chemicals Pvt. Ltd.



HEURTEY PETROCHEM



KAIBHCO



Tel. : +91-22-93229 46447 • Mob.: +91-90799 76814

Welcome to ROTEX GROUP



[Rotex Metals](#)



[Delux Metal \(India \)](#)



[Rotex Metal India](#)



[Anchor Pipe Fittings](#)

The quality assurance enables our customers to response, confidence in ROTEX METALS as a reliable source of supply and allows ROTEX METALS in "INSTILLING CONFIDENCE IN STEEL".

We have immense pleasure in introducing ourselves to your organization as one of the leading Largest stockiest and Dealers of Stainless Steel, Alloy Steel, Ferrous & Non-Ferrous Metals in Pipes, Tubes, Rods, Sheets, Plates, Pipe Fittings & Industrial Raw Materials.

Kindly note that we are the regular suppliers to various Mfg. units of Pharmaceuticals, Chemicals, Fertilizers, Cement, Paper, Water Purifiers, Plastic, valves, Electrical & Electronics etc.

Our Values

Our Clients are our most valuable assets and for that we use our skilled people and latest technology and equipments to fulfill their needs.

Why Us ?

We are a renowned name in this domain engaged in providing various types of SS, CS & AS Products. we have gained immense client's appreciation, Owing to our excellent product quality and transparent dealings.

Our Vision:

We help customers develop their energy resources; bringing world class capability and delivering it locally. We promote commercial arrangements that are aligned to our customers' needs, allowing us to deliver more value to the customer while increasing the returns from our most precious asset – our people.

Our Mission:

Provide technically sound solutions and create additional value in mutual interest with our customers resulting in being a preferred Stockiest & Suppliers within the Stockiest & Suppliers industry.

We would appreciate to get your esteemed enquires and look forward to the pleasure receiving your valuable response. Last, but not the least, we request you to send you each and every Enquiry for your requirements in the items required by your Esteem Organization enabling us to quote our lowest rates for the supply.

For our Customer's benefit, besides competitive pricing, assured quality and prompt supply, we assure you our best and prompt and dedicated services and look forward to building up a long & lasting business relation.

A favourable response from your end is highly solicited.

FORMULA OF CALCULATING WEIGHT

- 1) **Weight of Stainless Steel Pipe**
O.D.(mm) - W. Thick (mm) x W. Thick (mm) x 0.00248 = Wt. Per Mtr.
O.D. (mm) - W. Thick(mm) x W. Thick (mm) x 0.00756 = Wt. Per Feet
- 2) **Weight of Stainless Steel Round Bar**
Dia. (mm) x Dia. (mm) x 0.00623 = Wt. per Mtr.
Dia (mm) x Dia. (mm) x 0.0019 = Wt. per Mtr.
- 3) **Weight of Stainless Steel Square Bar**
Dia (mm) x Dia (mm) x 0.00788 = Wt. per Mtr.
Dia (mm) x Dia (mm) x 0.0024 = Wt. per Mtr.
- 4) **Weight of Stainless Steel Flat Bar**
Dia. (mm) x Dia. (mm) x 0.00680 = Wt. per Mtr.
Dia (mm) x Dia (mm) x 0.002072 = Wt. Per Feet
- 5) **Weight of Stainless Steel Flat Bar**
Width (mm) x Thickness (mm) x 0.00798 = Weight per Mtr.
Width (mm) x Thickness (mm) x 0.00243 = Weight per Feet
- 6) **Weight of Stainless Steel & Plates**
Length (Mtrs) x Width (Mtrs.) x Thick (mm) x 8 = Weight per PC
Length (Feet) x Width (Feet) x Thick (mm) x 3/4 = Weight per PC
- 7) **Weight of Stainless Steel Circle**
Dia (mm) x Dia (mm) x Thick (mm) / 160 = Gms. per PC
Dia (mm) x Dia (mm) x Thick (mm) x 0.0000063 = Kg. per PC
- 8) **Weight of Brass Pipes / Copper Pipes**
O.D. (mm) - W. Thick (mm) x W. Thick (mm) x 0.0260 = Wt. per Mtr.
- 9) **Weight Lead Pipe**
O.D. (mm) - W. Thick (mm) x W. Thick (mm) x 0.0345 = Wt. Per Mtr.
- 10) **Weight of Aluminium Pipe**
O.D. (mm) - W. Thick (mm) x W. Thick (mm) x 0.0083 = Wt. per Mtr.
- 11) **Weight of Aluminium Sheet**
Length (Mtrs.) x Width (Mtrs.) x Thick (mm) x 2.69 = Weight PC
- 12) **Weight Conversion of Mtr. to Feet**
Length (Mtrs.) x Width (Mtrs.) x Thick (mm) x 2.69 = Weight per PC
- 13) **Wt. of 1 Mtr. / 3.2808 = Wt. per Feet**
Barlow's Formula for calculating bursting pressure
 $P = 2ST/D$ or $t-DP/2S$ or $S-DP/2T$ or $D=2ST/P$
P = Bursting Pressure P. Si., S= Tensile Strength of tubes,
T = Wall Thickness (in inches) D = Outside Diameter (in inches)
- 14) **Formula for Healthy Business**
Honesty + Quality of Goods + Quick Service = Good Healthy Business

Our Esteemed Clients



APPLICATIONS :

- ◆ **IRON & STEEL PLANTS**
- ◆ **PETRO CHEMICAL PLANTS**
- ◆ **ACID & CHEMICAL INDUSTRIES**
- ◆ **MINES**
- ◆ **AUTOMOBILE INDUSTRIES**
- ◆ **HEAVY MACHINERIES**
- ◆ **DISTILLERIES**
- ◆ **CEMENT PLANTS**
- ◆ **ELECTRIC & ELECTRONIC INDUSTRIES**
- ◆ **SPACE CENTRES**
- ◆ **FERTILIZER INDUSTRIES**
- ◆ **FOOD INDUSTRIES**
- ◆ **OIL & GAS INDUSTRIES**
- ◆ **PAPER & PULP INDUSTRIES**
- ◆ **PHARMACEUTICALS**
- ◆ **POWER SECTORS**
- ◆ **REFINERIES**
- ◆ **SUGAR MILLS**
- ◆ **TEXTILE INDUSTRIES**



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ROTEX METALS

SMART BUSINESS



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COMPANY PROFILE

NAME : **ROTEX METALS**

ADDRESS : MOGUPPAIR (EAST), CHENNAI - 600037.

REGD. ADDRESS : 12, Prabhu Sree RamMandir Marg, 4th
Kumbharwada, Mumbai - 400 004.

TEL. : 9322946441

E-MAIL : info@rotexgroups.in / rotexmetals@yahoo.com

Web. : www.rotexgroup.in

CONTACT PERSON : DEVRAJ PATEL - 9322946441
HARESH PATEL - 9079976814
HEERALAL PATEL - 9869154179

GSTIN No. : 33BGUPP3948R1Z8

PAN NO. : BGUPP3948R

BANKER'S NAME : IDBI BANK LTD.

BANK A/C. NO. : 0300651100000541

IFSC CODE : IDKL0000300

OUR PRODUCTS :

STOCKISTS & SUPPLIERS OF : STAINLESS STEEL, 304, 304L, 316, 316L, 310, 321, 410, 202,

HARDWARE SHEETS, COILS, TUBES, PIPES, ROD, FLAT, COPPER, BRASS, ALUMINIUM, INCONEL, MONEL, NICKEL, HASTELLOY, S.S. & C.S. PIPE FITTINGS, FERROUS & NON-FERROUS METALS ETC.



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PRODUCT RANGE

FLANGES

Stainless Steel : ASTM A 182, F304 / 304L / 316 / 316L / 317 / 317L / 321 / 310 / 347 / 904L etc.

Carbon Steel : ASTM A105 / A694F42 / 46 / 52 / 56 / 60 / 65 / 70 / A350 LF3 / A350 LF2, etc.

Alloy Steel : ASTM A 182 F1 / F5 / F9 / F11 / F22 / F91 etc.

Nickel Alloys : Monel, Nickel, Inconel, Hastelloy, Titanium, Tantalum, Alloy - 20 etc.

Types : Weldneck, Slipon, Blind, Socket Weld, Lap Joint, Spectacles, Ring Joint, Oriface, Long Weldneck, Deck Flange, RTJ, Flange.

Size : 1/2" NB to 48" NB.



BUTT WELD FITTINGS

Stainless Steel : ASTM A403 WP 304 / 304L / 304H / 316 / 316L / 317 / 317L / 321 / 310 / 347 / 904L etc.

Carbon Steel : ASTM A234 WPB / A-420 WPL3 / A420 WPL6 / MSS-SP-75WPHY 42 / 46 / 52 / 56 / 60 / 65 / 70

Alloy Steel : ASTM A234 WP1 / WP5 / WP9 / WP11 / WP22 / WP91 etc.

Others : Monel, Nickel, Inconel, Hastelloy, Copper, Brass, Bronze, Titanium etc.

Types : Elbow, Tee, Reducer, Return bends, Stub-Ends, Cap, Collar, Cross, Insert etc.

Sizes : 1/4" NB to 48" NB. (Seamless & Welded)

Wall Thickness : Sch. 5S to Sch. XXS



PIPES



Stainless Steel : ASTM A312TP 202 / 304 / 304L / 316 / 316L / 317 / 317L / 321 / 310 / 347 / 904L etc.

Nickel Alloys : Monel, Inconel, Hastelloy, Nickel, Titanium, Alloy 20

Types : Round, Square, Rectangular.

Specialization : Electropolished Pipes & Tubes, Railing, Industrial

Size : Upto 48" NB. (Seamless & Welded)

Wall Thickness : Sch. 5S to Sch. XXS

PRODUCT RANGE

ANGLES & CHANNELS

Stainless Steel : 202, 304, 304L, 316, 316L, 321

Types : Stainless Steel, Alloy Steel & Carbon Steel

Nickel Alloys : Monel, Inconel, Hastelloy, Nickel, Titanium, Alloy 20

Size : All Sizes & All Thickness Available.



FLAT BARS

Stainless Steel : ASTM A312 TP-202 / 304 / 304L / 316 / 316L / 316Ti / 317 / 317L / 321 / 310 / 347 / 410 / 420 / 904 / 303 / 17-4PH, 15-5 PH etc.

Nickel Alloys : Monel, Inconel, Hastelloy, Nickel, Titanium, Alloy 20

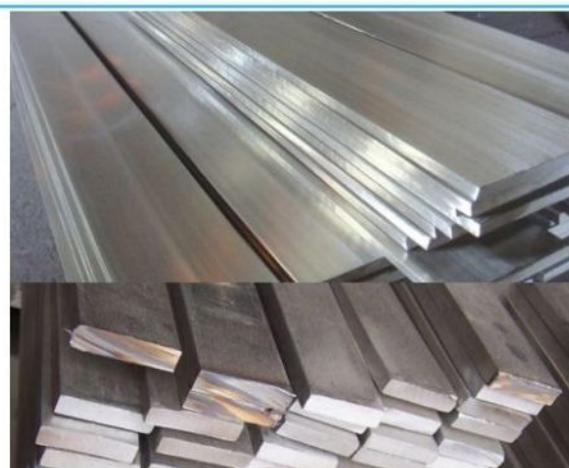
Duplex & Super Duplex : UNS 32205, 31803, 32750, 32760,

Types : Rectangular.

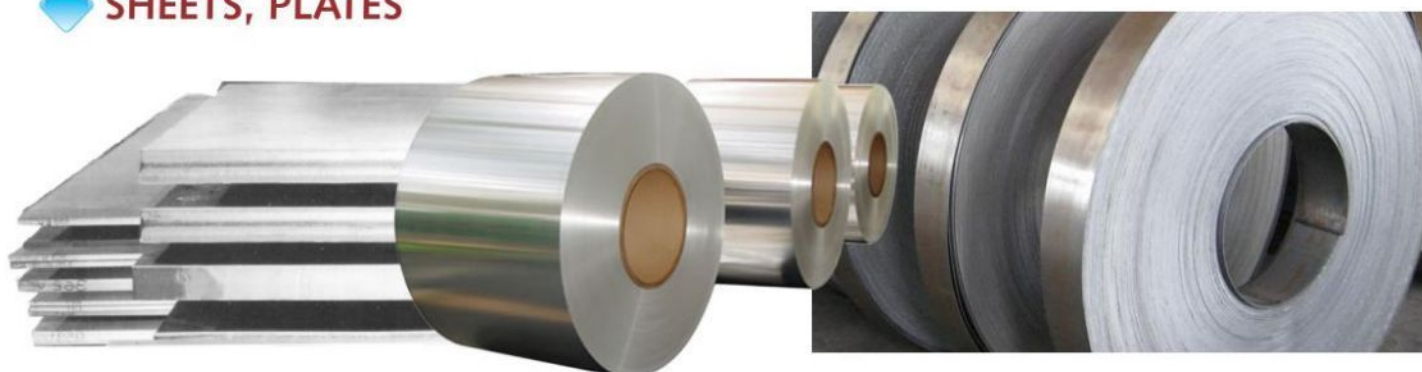
Size : As per Requirement

Process : Cold Drawn, Annealed, Exports, Bright / Black.

Tolerance : H9, H11



SHEETS, PLATES



Stainless Steel : ASTM A240 TP - 202 / 304 / 304L / 316 / 316L / 316Ti / 317 / 317L / 321 / 310 / 347 / 904L etc.

Nickel Alloys : Monel, Inconel, Hastelloy, Nickel, Titanium, Alloy 20

Types : Sheet, Plates, Strips, Patti, Circles, etc.

Size : 1000 mm to 2500 mm in Width, 2500mm, 3000 mm, 5000 mm & 6000 mm in long

Finish : 2B, 2D, BA, N0.4, N0.8, N0.1, H.R. etc.

PRODUCT RANGE

RODS / BRIGHT BAR



Stainless Steel : As per ASTM A276, A479, A182F Grade 202 / 304 / 304L / 316 / 316L / 316Ti / 317 / 317L / 321 / 310 / 347 / 410 / 420 / 904 / 303 / 17-4PH / 15-5 PH etc.

Nickel Alloys : Monel, Inconel, Hastelloy, Nickel, Titanium, Alloy 20

Duplex & Super Duplex : UNS 32205, 31803, 32750, 32760

Types : Round Bright Bar & Black Bar

Size : 3mm - 400 mm dia ready stock with Mill Test Certificate

Process : Cold Drawn, Annealed, Export Bright & Black

Tolerance : H9, H11

SQUARE BARS & HEX BAR

Stainless Steel : As per ASTM A276 & A479 Grade 202 / 304 / 304L / 316 / 316L / 316Ti / 317 / 317L / 321 / 310 / 347 / 410 / 420 / 904 / 303 / 17-4PH, 15-5 PH etc.

Nickel Alloys : Monel, Inconel, Hastelloy, Nickel, Titanium, Alloy 20

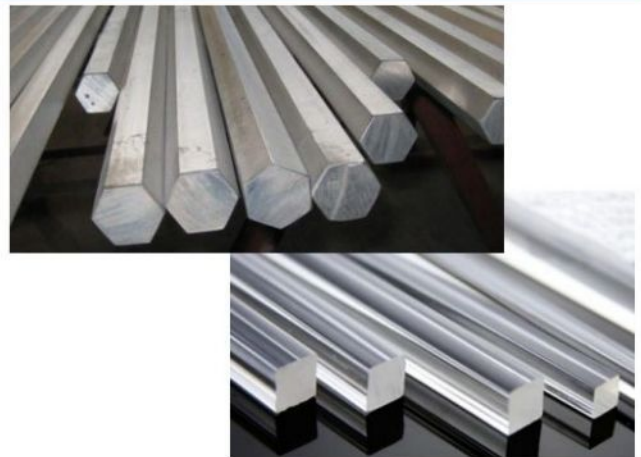
Duplex & Super Duplex : UNS 32205, 31803, 32750, 32760,

Types : Round, Square, Rectangular.

Size : 3mm - 75 mm dia ready stock with Mill Test Certificate

Process : Cold Drawn, Annealed, Export Bright & Black

Tolerance : H9, H11

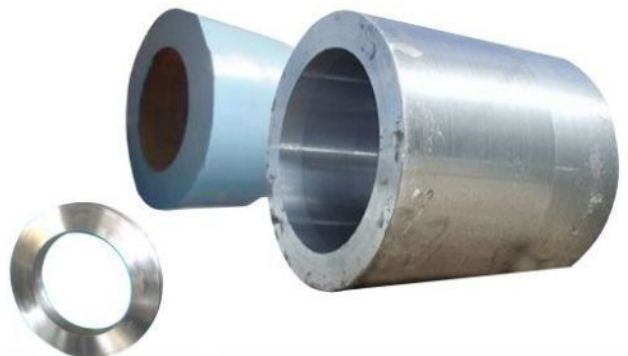


FORGING BLANK HOLLOW, RING

Stainless Steel : As per ASTM A182F Grade 302, 304, 304L, 316, 316L, 310, 317, 317L, 321, 347, 410, 420, 904L etc.

Nickel Alloys : Monel, Inconel, Hastelloy, Titanium, Alloy - 20 etc.

Size : upto 1000mm dia & Upto 1200 Kgs. in Weight





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ROTEX METALS

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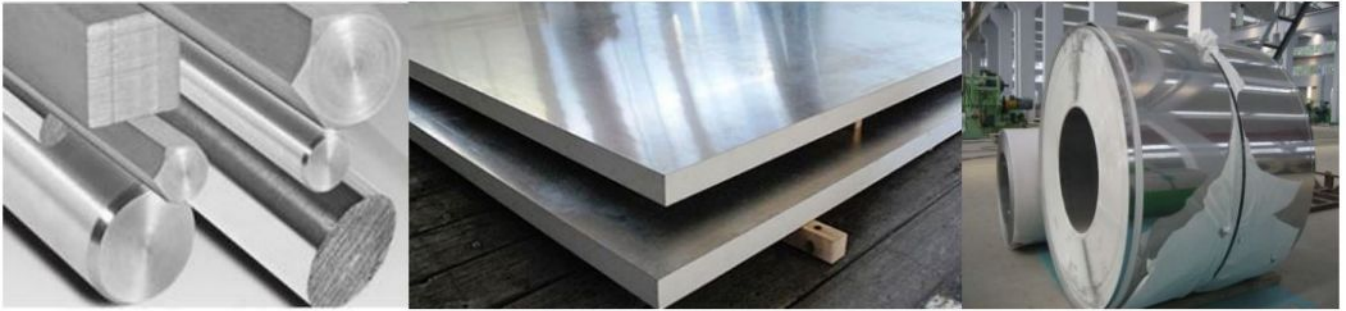
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PRODUCT RANGE

NICKEL ALLOYS



Nickel Alloys : Titanium, Nickel, Monel, Enconel, Hastalloy.

Titanium Grades : Grade 1, Grade 2, Grade 5

Nickel Grade : 200, 201

Monel Grade : 400, K-500

Inconel Grade : 600, 625, 718

Hastalloy Grade : C276, C22

Types : Rods, Sheets, Plastic, Pipes, etc.

Size : As per requirement.





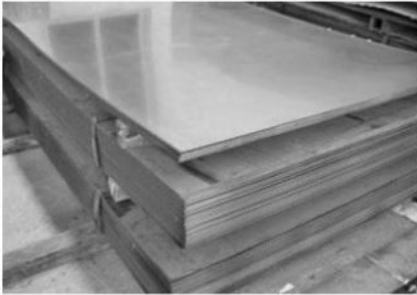
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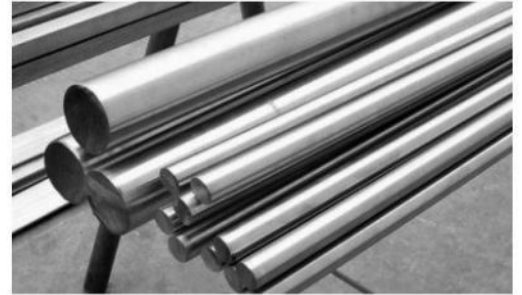
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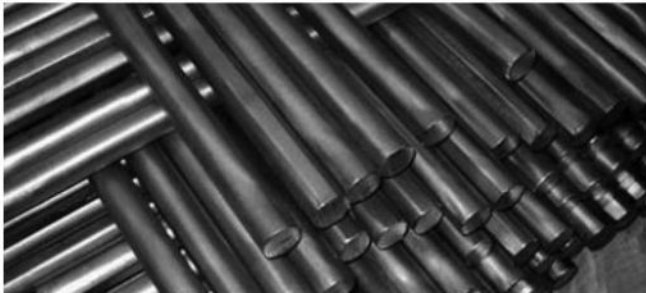
SS SHEET



SS COILS



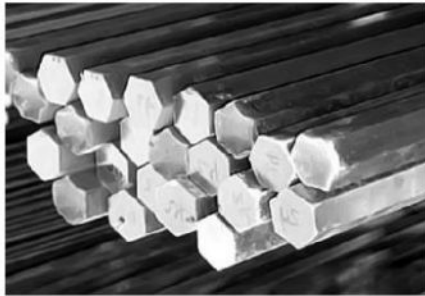
SS ROUND BAR BRIGHT



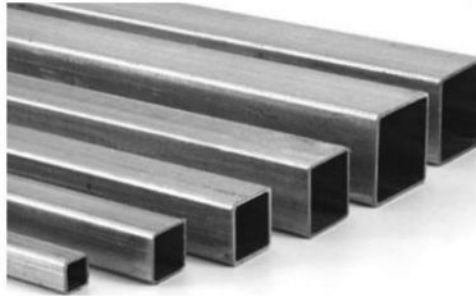
SS ROUND BAR BLACK



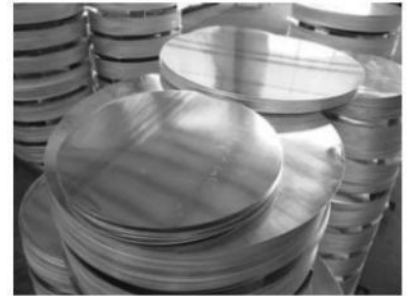
SS PIPE & TUBES



SS HEXAGONAL RODS



SS SQUARE PIPES



SS CIRCLES



SS ANGLES



SS FLAT



COPPER, BRASS, ALUMINIUM



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PIPE FITTINGS



BARRLE NIPPLE



DAIRY FITTINGS



ECC.REDUCER



STUB-END



CON. REDUCER



EQUAL TEE



COUPLING



FOURWAY TEE



HEX NIPPLE



DAIRY CLAMP



CAP



ALL NIPPLE

DAIRY BEND

PIPE REDUCER



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ANSI B 36.19 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	mm	Wt. mm	WEIGHT(KG/M)	WT. mm	WEIGHT(KG/M)	WT. mm	WEIGHT(KG/M)	WT. mm	WEIGHT(KG/M)	WT. mm	WEIGHT(KG/M)	WT. mm	WEIGHT(KG/M)	WT. mm	WEIGHT(KG/M)
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	0.58	2.24	0.630	3.02	0.80	-	-	-	-
10	3/8	17.1	1.2	0.47	1.65	0.63	2.00	0.74	2.31	0.840	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	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	3.39	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	11.1	21.30	15.24	27.68
100	4	114.3	2.11	5.84	3.05	8.36	4.50	12.18	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	21.8	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	25.36	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	12.7	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	12.7	81.55	28.58	172.33	25.40	155.15
300	12	323.8	3.96	31.24	4.57	36.00	6.35	49.7	9.53	73.85	12.7	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	11.13	94.54	ASTM A 312 TP 304					
400	16	406.4	4.19	41.56	4.78	47.34	7.92	77.82	12.7	123.30	ASTM A 312 TP 316L					
450	18	457.2	4.19	46.81	4.78	53.32	7.92	87.74	14.27	155.86	ASTM A 312 TP 317L					
500	20	508.0	4.78	59.31	5.54	68.64	9.53	117.14	15.09	183.42						
600	24	610.0	5.54	82.57	6.35	94.52	9.53	141.11	17.48	255.41						

Formula - Pipe Weight Kg / Mtr OD - Thick x Thick x 0.02466 = Kg Per Mtr.

ANSI SPECIFICATION & TOLERANCE FOR TUBING & PIPING

Specification	Allowable Outside Diameter variation in mm			Allowable Wall Thickness Variation		Exact Length Tolerance in mm		Testing
ASTM-A213 Seamless Boiler Superheater and Heat Exchanger Tubes	Nominal Diameter	Over	Under	%Over	%Under	Over	Under	Flattening Test Tension Test Flare Test Hardness Test 100% Hydrostatic test Refer to ASTM A-450
	Under 25.4	0.1016	0.1016	+20	-0	3.175	0	
	25.4-38.1 incl	0.1524	0.1524	+22	-0	3.175	0	
	38.1-50.8 excl	0.2032	0.2032	+22	-0	3.176	0	
	50.8-63.5 excl	0.254	0.254	+2	-0	4.46	0	
	63.5-76.2 excl	0.3048	0.3048	+22	-0	4.76	0	
	76.2-101.6 incl	0.381	0.381	+22	-0	4.76	0	
ASTM-A249 Welded Boiler Superheater Heat Exchanger and Condenser Tubes	Under 25.4	.1016	.1016	+10	-10	3.175	0	Tension Test Flattening Test Flange Test Reverse Bend Test Hardness Test 100% Hydrostatic Test Refer to ASTM A-450
	25.4-38.1 inch	.1524	.1524	+10	-10	3.175	0	
	38.1-50.8 Excl	.2032	.2032	+10	-10	3.175	0	
	50.0-63.5 excl	.254	.254	+10	-10	4.762	0	
	63.5-76.2 excl	.3848	.3048	+10	-10	4.762	0	
	76.2-101.6 incl	.381	.381	+10	-10	4.762	0	
			Minimum wall tubes + 18% 0 available On request					
ASTM-A269 Seamless & Welded Tubing for General Service	Upto 12.7	0.13	0.13	+15	-15	3.2	0	Flare Test (Seamless Only) Flange Test (Welded Only) Hardness Test Reverse Flattening Test (Welded only) 100% Hydrostatic Test Refer to ASTM-A269
	12.7-38.1 excl	0.13	0.13	+10	-10	3.2	0	
	38.1-88.9 excl	0.25	0.25	+10	-10	4.8	0	
	88.9-139.7 excl	0.38	0.38	+10	-10	4.8	0	
	139.7-203.2 excl	0.76	0.76	+10	-10	4.8	0	
ASTM A312 Seamless & Welded Pipe	3.175 - 38.1 incl	0.4	0.70	Minimum Wall 12.5% under nominal wall Specified		6.4	0	Tension Test Flattenign Test 100% Hydrostatic Test Refer to ASTM A-530
	38.1 - 1016 incl	0.79	0.79		6.4	0		
	101.6 - 203.2 incl	1.59	0.79		6.4	0		
					(Normally Random) Lengths ordered			
ASTM A-358 Welded Pipe	219.08 - 750mm or 0.01 inch	+0.5%		-0.3		6.0		Refer to ASTM A-530
ASTM A-409 welded	355.6 - 750 mm	+0.2% to +0.4%		-0.46				Refer to ASTM A-530



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ROTEX METALS

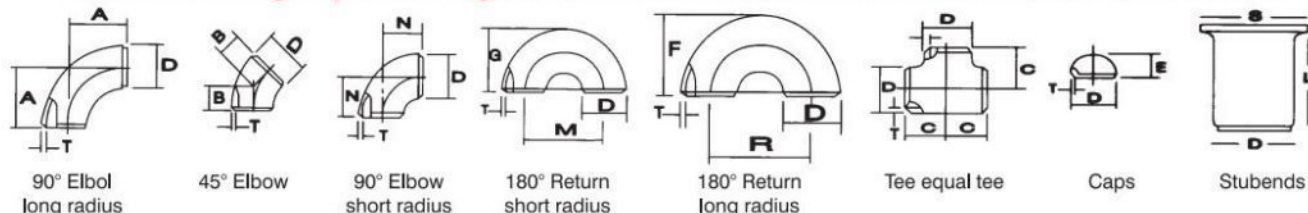
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Butt Welding Pipe Fittings Dimensional Standard ANSI B-16.9, B-16.28



Nominal Pipe Size		Outside Diameter	Centre to Face				Back to Face			Centre to Centre			Length "L" MSSSP43 B16.9	
Inch	mm	D	A	B	C	N	E	F	G	R	M	S	L	L
1/2	15	21.3	38.00	16.0	25.0	-	25.0	48.0	-	76.0	-	35.0	50.8	76.2
3/4	20	26.7	29.00	11.0	29.0	-	25.0	43.0	-	57.0	-	43.0	50.8	76.2
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
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
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
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
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
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
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
4	100	114.3	152.0	63.0	105.0	102.0	64.0	210.0	159.0	305.0	203.0	157.0	76.2	152.4
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
6	150	168.3	229.0	95.0	143.0	152.0	89.0	313.0	237.0	457.0	305.0	216.0	88.9	203.2
8	200	219.1	305.0	127.0	178.0	203.0	102.0	414.0	313.0	610.0	406.0	270.0	101.6	203.2
10	250	273.1	381.0	159.0	216.0	254.0	127.0	515.0	391.0	762.0	508.0	324.0	127.0	254
12	300	323.9	457.0	190.0	254.0	303.0	152.0	619.0	467.0	914.0	610.0	381.0	152.4	254
14	350	355.6	533.0	222.0	279.0	356.0	165.0	711.0	533.0	1067.0	711.0	413.0	152.4	305.0
16	400	406.4	610.0	254.0	305.0	406.0	178.0	813.0	610.0	1219.0	813.0	470.0	152.4	305.0
18	450	457.2	686.0	286.0	343.0	457.0	203.0	914.0	686.0	1372.0	914.0	533.0	152.4	305.0
20	500	508.0	762.0	318.0	381.0	508.0	229.0	1016.0	762.0	1524.0	1016.0	584.0	152.4	305.0
22	550	559.0	838.0	343.0	419.0	559.0	254.0	1118.0	838.0	1676.0	1118.0	614.40	152.4	305.0
24	600	610.0	914.0	381.0	432.0	610.0	267.0	1219.0	914.0	1829.0	1219.0	692.0	152.4	305.0
26	650	660.0	991.0	406.0	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	589.0	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	914.0	1372.0	565.0	673.0	914.0	267.0							

STAINLESS STEEL FLANGES & FORGE FITTINGS

304,304L,316,316L,321,309,310,904L,
HAST-ALLOY,MONAL,INCONAL , AS PER
DRAWING, DIN,ASTM,BS,IS,



BLIND



SLIP-ON



WELD NECK



LAP JOINT



SOCKET WELD



SCREWED



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ROTEX METALS

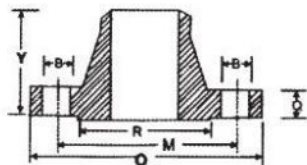
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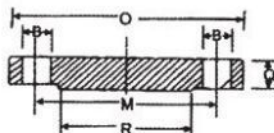


FORGED FLANGES DIMENSIONS TO ANSI B 16.5

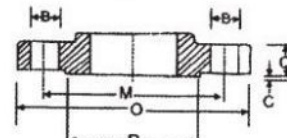


150 lbs

Weld-neck

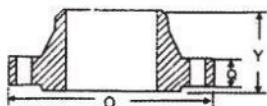


Blind



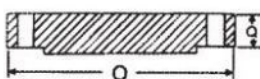
Slip-on

Normal Pipe Size (in mm)	Outside Dia of Flanges	Maximum Thickness of Flanges	Overall Length			Bolt Circle	No. and Size of hoies		O D. of Raised Face
			Welding Neck	Slip-On & Socket Welding	Lap Joint				
	O	Q		Y		Dia m	No	B	R
15	89	11.2	47.6	15.9	15.9	60.5	4	15	35
20	98	12.7	52.4	15.9	15.9	70.0	4	15	43
25	108	14.3	55.6	17.5	17.5	79.5	4	15	51
32	117	15.9	57.2	20.6	20.6	89.0	4	15	64
40	127	17.5	61.9	22.2	22.2	98.5	4	15	73
50	152	19.1	63.5	25.4	25.4	120.4	4	19	92
65	178	22.3	69.8	28.6	28.6	139.5	4	19	105
80	190	23.9	69.8	30.2	30.2	152.5	4	19	127
90	216	23.9	71.4	31.8	31.8	178.0	8	19	140
100	229	23.9	76.2	33.3	33.3	190.5	8	19	157
125	254	23.9	88.9	36.5	36.5	216.0	8	22	186
150	279	25.4	88.9	39.7	39.7	214.5	8	22	216
200	343	28.6	101.6	44.4	44.4	298.5	8	22	270
250	406	30.2	101.6	49.2	49.2	362.0	12	25	324
300	483	31.8	114.3	55.6	55.6	432.0	12	25	381
350	533	34.0	127.0	57.2	79.4	476.0	12	29	413
400	597	36.6	127.0	63.5	87.3	539.5	16	29	470
450	635	39.7	139.7	68.3	96.8	578.0	16	32	533
500	698	42.9	144.5	73.0	103.2	635.0	20	32	584
600	813	47.7	152.4	82.6	111.1	749.5	20	35	692

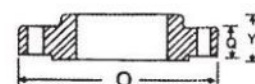


300 lbs

Weld-neck



Blind



Slip-on

Normal Pipe Size (in mm)	Outside Dia of Flanges	Maximum Thickness of Flanges	Overall Length			Bolt Circle	No. and Size of hoies		O D. of Raised Face
			Welding Neck	Slip-On & Socket Welding	Lap Joint				
	O	Q		Y		Dia m	No.	B.	R
15	95	14.3	52.4	22.2	22.2	66.5	4	15	35
20	117	15.9	57.2	25.4	25.4	82.5	4	19	43
25	124	17.5	61.9	27.0	27.0	89.5	4	19	51
32	133	19.1	65.1	27.0	27.0	98.5	4	19	64
40	156	20.7	68.3	30.2	30.2	114.5	4	22	73
50	165	22.3	69.8	33.3	33.3	127.0	8	19	92
65	190	25.4	76.2	38.1	38.1	149.0	8	22	105
80	210	28.6	79.4	42.9	42.9	168.0	8	22	127
90	229	30.2	81.0	44.5	44.5	184.0	8	22	140
100	254	31.8	85.7	47.6	47.6	200.0	8	22	157
125	279	35.0	98.4	50.8	50.8	235.0	8	22	186
150	313	36.6	98.4	52.4	52.4	270.0	12	22	216
200	381	41.3	111.1	61.9	61.9	330.0	12	25	217
250	444	47.7	117.5	66.7	95.3	387.5	16	29	324
300	521	50.8	130.2	73.0	101.6	451.0	16	32	381
350	584	54.0	142.9	76.2	111.1	514.5	20	32	413
400	648	57.2	146.0	82.6	120.7	571.5	20	35	470
450	711	60.4	158.8	88.9	130.2	628.5	24	35	584
500	775	63.5	161.9	95.2	139.7	686.0	24	35	692
600	914	69.9	168.3	106.4	152.4	813.0	24	41	692



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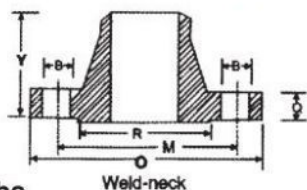
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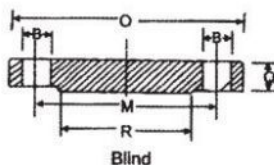


FORGED FLANGES DIMENSIONS TO ANSI B 16.5

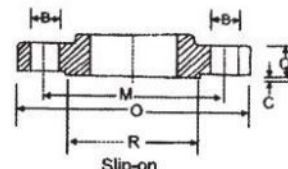


600 lbs

Weld-neck

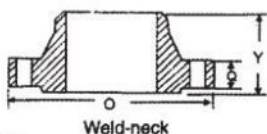


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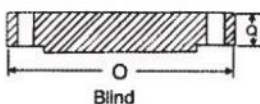


Slip-on

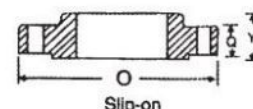
Normal Pipe Size (in mm)	Outside Dia of Flanges	Maximum Thickness of Flanges	Overall Length			Bolt Circle	No. and Size of hoies		O D. of Raised Face
			Welding Neck	Slip-On & Socket Welding	Lap Joint				
	O	Q		Y		Dia m	No	B	R
15	95	14.3	52.4	22.2	22.2	66.5	4	15	35
20	117	15.9	57.2	25.4	25.4	82.5	4	19	43
25	124	17.5	61.9	27.0	27.0	89.5	4	19	51
32	133	20.7	66.7	28.6	28.5	98.5	4	19	64
40	156	22.3	69.8	31.8	31.8	114.5	4	22	73
50	165	25.4	73.0	36.5	36.5	127.0	8	19	92
65	190	28.6	79.4	41.3	41.3	149.0	8	22	105
80	210	31.8	82.6	46.0	46.0	168.0	8	22	127
90	229	35.0	85.7	49.2	49.2	184	8	25	140
100	273	38.1	101.6	54.0	54.0	216.0	8	25	157
125	330	44.5	114.3	60.3	60.3	266.5	8	29	186
150	356	47.7	117.5	66.7	66.7	292.0	12	29	216
200	419	55.6	133.4	76.2	76.2	349.0	12	32	270
250	508	63.5	152.4	85.7	115.1	432.0	16	35	324
300	559	66.7	155.6	92.1	111.1	489.0	20	35	381
350	603	69.9	165.5	93.7	117.5	527.0	20	38	413
400	686	76.2	177.8	106.4	127.0	603.0	20	41	470
450	743	82.6	184.2	117.6	139.7	654.0	20	45	533
500	813	88.9	190.5	127.0	165.1	724.0	24	45	584
600	940	101.6	203.2	139.7	184.2	838.0	24	51	692



Weld-neck



Blind



Slip-on

900 lbs

Normal Pipe Size (in mm)	Outside Dia of Flanges	Maximum Thickness of Flanges	Overall Length			Bolt Circle	No. and Size of hoies		O D. of Raised Face
			Welding Neck	Slip-On & Socket Welding	Lap Joint				
	O	Q		Y		Dia m	No.	B	R
15	121	22.3	60.3	31.8	31.8	82.5	4	22	35
20	130	25.4	69.8	34.9	34.9	89.0	4	22	43
25	149	28.6	73.0	41.3	41.3	101.5	4	25	51
32	159	28.6	73.0	41.3	41.3	111.0	4	25	64
40	178	31.8	82.6	44.4	44.4	124.0	4	29	73
50	216	38.1	101.6	57.2	57.2	165.0	8	25	92
65	244	41.3	104.8	63.5	63.5	190.5	8	29	105
80	241	38.1	101.6	54.0	54.0	190.5	8	25	127
100	292	44.5	114.3	69.8	69.8	235.0	8	32	157
125	349	50.8	127.0	79.4	79.4	279.5	8	35	186
150	381	55.6	139.7	85.7	85.7	317.5	12	32	216
200	470	68.5	161.5	101.8	114.3	393.5	12	38	270
250	546	69.9	184.2	108.0	127.0	470.0	16	38	324
300	610	79.4	200.0	117.5	142.9	533.5	20	38	381
350	641	85.8	212.7	130.2	155.6	559.0	20	41	413
400	705	88.9	215.8	133.4	165.8	616.0	20	45	470
450	787	101.6	228.6	152.4	190.5	686.0	20	51	533
500	857	108.0	247.6	158.8	209.6	749.5	20	54	584
600	1041	139.7	292.8	203.2	266.7	901.5	20	67	692



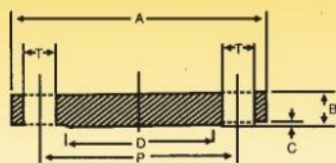
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ROTEX METALS

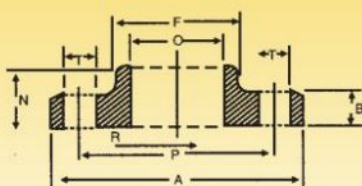
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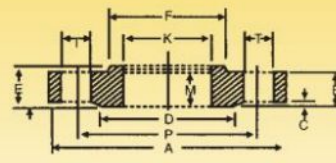
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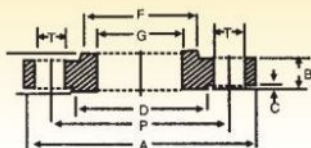
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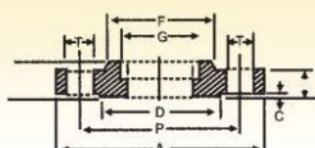
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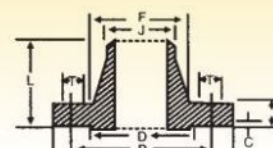
SCREWED



SLIP-ON



SOCKET WELD



WELD-NECK

CLASS 1500 FLANGES - METRIC

N.B.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	T	No.of Holes
15	121	22.2	6.4	35	32	38	22.4	9.5	21.3	23.5	60	22	32	23.0	82.6	3.0	22.2	4
20	130	25.4	6.4	43	35	44	22.7	11.0	26.7	29.0	70	25	35	28.0	88.9	3.0	22.2	4
25	149	28.6	6.4	51	41	52	34.5	12.5	33.4	36.0	73	29	41	35.0	101.6	3.0	25.4	4
32	159	28.6	6.4	64	41	64	43.2	14.5	42.2	44.5	73	30	41	43.5	111.1	5.0	25.4	4
40	178	31.8	6.4	73	44	70	49.5	16.0	48.3	50.5	83	32	44	50.0	123.8	6.5	28.6	4
50	216	38.1	6.4	92	57	105	62.0	17.5	60.3	63.5	102	38	57	62.5	165.1	8.0	25.4	8
65	244	41.3	6.4	105	64	124	74.7	19.0	73.0	76.0	105	48	64	75.0	190.5	8.0	28.6	8
80	267	47.6	6.4	127	73	133	-	-	88.9	92.0	117	51	73	91.5	203.2	9.5	31.8	8
100	311	54.0	6.4	157	91	162	-	-	114.3	118.0	124	57	91	117.0	241.3	11.0	34.9	8
125	375	73.0	6.4	186	105	197	-	-	141.3	145.0	156	64	105	145.0	292.1	11.0	41.3	8
150	394	82.6	6.4	216	119	229	-	-	168.3	171.0	171	70	119	171.0	317.5	12.5	38.1	12
200	483	92.1	6.4	270	143	292	-	-	219.1	222.0	213	76	143	222.0	393.7	12.5	44.4	12
250	584	108.0	6.4	324	159	368	-	-	273.0	279.0	254	84	178	277.0	482.6	12.5	50.8	12
300	673	123.8	6.4	381	181	451	-	-	323.9	329.0	283	92	219	328.0	571.5	12.5	54.0	16
350	749	133.4	6.4	413	-	495	-	-	356.0	-	298	-	241	360.0	635.0	12.5	60.3	16
400	826	146.1	6.4	470	-	552	-	-	406.4	-	311	-	260	411.0	704.8	12.5	66.7	16
450	914	161.9	6.4	533	-	597	-	-	457.2	-	327	-	276	462.0	774.7	12.5	73.0	16
500	684	178.0	6.4	584	-	641	-	-	508.0	-	356	-	292	514.0	831.8	12.5	79.4	16
600	1168	203.0	6.4	692	-	762	-	-	609.6	-	406	-	330	616.0	990.6	12.5	92.0	16

CLASS 2500 FLANGES - METRIC

N.B.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	T	No.of Holes
15	133	30.2	6.4	35	40	43	-	-	21.3	23.5	73	26	40	23.0	88.9	3.0	22.2	4
20	140	31.7	6.4	43	43	51	-	-	26.7	29.0	79	32	43	28.0	95.2	3.0	22.2	4
25	159	34.9	6.4	51	48	57	-	-	33.4	35.0	89	35	48	35.0	107.9	3.0	25.4	4
32	184	38.1	6.4	64	52	73	-	-	42.2	44.5	95	38	52	43.5	130.2	5.0	28.6	4
40	203	44.4	6.4	73	60	79	-	-	48.3	50.5	111	44	60	50.0	146.0	6.5	31.8	4
50	235	50.8	6.4	92	70	95	-	-	60.3	63.5	127	51	70	62.52	171.4	8.0	28.6	8
65	267	57.1	6.4	105	79	114	-	-	73.0	76.0	143	57	79	75.5	176.8	8.0	31.8	8
80	305	66.7	6.4	127	92	133	-	-	88.9	92.0	168	64	92	91.5	228.6	9.5	34.9	8
100	356	76.2	6.4	157	108	165	-	-	114.3	118.0	190	70	103	117.0	273.0	11.0	41.3	8
125	419	92.1	6.4	186	130	203	-	-	141.3	145.0	229	76	130	145.0	323.8	11.0	47.6	8
150	483	108.0	6.4	216	152	235	-	-	168.3	171.0	273	83	152	171.0	368.3	12.5	54.0	8
200	552	127.0	6.4	270	178	305	-	-	219.1	222.0	318	95	178	222.0	438.1	12.5	54.0	12
250	673	165.1	6.4	324	229	375	-	-	273.0	276.0	419	108	229	277.0	539.7	12.5	66.7	12
300	762	184.1	6.4	381	254	441	-	-	323.9	329.9	464	121	254	328.0	619.1	12.5	73.0	12



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DIMENSION OF PIPE FLANGES AS PER TABLE BS - 10

Table D : For Working Steam Pressure upto 50 lbs per sq. inch

Nominal Pipe size	O.D. of Pipe	Dia. of Flange	Dia. of Bolt Circle	No. of Bolt	Dia. of Bolt	Thickness
1/2"	21.3	95.3	66.7	4	12.7	4.8
3/4"	26.7	101.6	73.0	4	12.7	4.8
1"	33.4	114.3	82.6	4	12.7	4.8
1 1/4"	42.2	120.7	87.6	4	12.7	6.4
1 1/2"	48.3	133.4	98.4	4	12.7	6.4
2"	60.3	152.4	114.3	4	15.9	7.9
2 1/2"	73.0	165.1	127.0	4	15.9	7.9
3"	88.9	184.2	146.1	4	15.9	9.5
3 1/2"	101.6	203.2	165.1	4	15.9	9.5
4"	114.3	215.9	177.8	4	15.9	9.5
5"	141.3	254.0	209.6	8	15.9	12.7
6"	168.3	279.4	228.6	8	15.9	12.7
7"	190.5	304.8	260.4	8	15.9	12.7
8"	219.1	336.6	292.1	8	15.9	12.7
9"	244.5	368.3	323.9	8	15.9	15.9
10"	273.0	406.4	355.6	8	19.1	15.9
12"	323.9	457.2	406.4	12	19.1	15.9
14"	355.6	527.1	469.9	12	22.2	19.1
16"	406.4	577.9	520.7	12	22.2	19.1
18"	457.2	641.4	584.2	12	22.2	22.2
20"	508.0	704.9	641.4	16	22.5	25.4
24"	609.6	825.5	755.7	16	25.4	28.6

Table E : For Working Steam Pressure 50 lbs upto 100 lbs per sq. inch

Nominal Pipe size	Dia. of Flange	Dia. of Bolt Circle	No. of Bolt	Dia. of Bolt	Thickness
1/2"	95.3	66.7	4	12.7	6.4
3/4"	101.6	73.0	4	12.7	6.4
1"	114.3	82.6	4	12.7	7.1
1 1/4"	120.7	87.3	4	12.7	7.9
1 1/2"	133.4	98.4	4	12.7	8.7
2"	152.4	114.3	4	15.9	9.5
2 1/2"	165.1	127.0	4	15.9	10.3
3"	184.2	146.1	4	15.9	11.1
3 1/2"	203.2	165.1	8	15.9	11.9
4"	215.9	177.8	8	15.9	12.7
5"	254.0	209.6	8	15.9	14.3
6"	279.4	228.6	8	19.1	17.5
7"	304.8	260.4	8	19.1	19.1
8"	336.6	292.1	8	19.1	19.1
9"	368.3	323.9	12	19.1	20.6
10"	406.4	355.6	12	19.1	22.2
12"	457.2	406.4	12	22.2	25.4
14"	527.2	469.9	12	22.2	25.4
16"	577.9	520.7	12	22.2	25.4
18"	641.4	584.2	16	22.2	28.6
20"	704.9	647.4	16	22.2	31.8
24"	825.5	755.7	16	25.4	38.1

Table F : For Working Steam Pressure above 100 lbs and upto 150 lbs per sq. inch

Nominal Pipe size	O.D. of Pipe	Dia. of Flange	Dia. of Bolt Circle	No. of Bolt	Dia. of Bolt	Thickness
1/2"	21.3	95.3	66.7	4	12.7	9.5
3/4"	26.7	101.6	73.0	4	12.7	9.5
1"	33.4	120.7	87.3	4	15.9	9.5
1 1/4"	42.2	133.4	98.4	4	15.9	12.7
1 1/2"	48.3	139.7	104.8	4	15.9	12.7
2"	60.3	165.1	127.0	4	15.9	15.9
2 1/2"	73.0	184.2	146.1	8	15.9	15.9
3"	88.9	203.2	165.1	8	15.9	15.9
3 1/2"	101.6	215.9	177.8	8	15.9	19.1
4"	114.3	228.6	190.5	8	15.9	19.1
5"	141.3	279.4	235.0	8	19.1	22.2
6"	168.3	304.8	260.4	12	19.1	22.2
7"	190.5	336.6	292.1	12	19.1	22.
8"	219.1	368.3	323.9	12	19.1	25.4
9"	244.5	406.4	355.6	12	22.2	25.4
10"	273.0	431.8	381.0	12	22.2	25.4
12"	323.9	489.0	438.2	16	22.2	28.6
14"	355.6	552.5	495.3	16	25.4	31.8
16"	406.4	609.6	552.5	20	25.4	31.8
18"	457.2	673.1	609.6	20	28.6	34.9
20"	508.0	736.6	673.1	24	28.6	38.1
24"	609.6	850.9	781.1	24	31.8	41.3

Table H : For Working Steam Pressure above 150 lbs and upto 250 lbs per sq. inch

Nominal Pipe size	Dia. of Flange	Dia. of Bolt Circle	No. of Bolt	Dia. of Bolt	Thickness
1/2"	114.3	82.6	4	15.9	12.7
3/4"	114.6	82.6	4	15.9	12.7
1"	120.78	87.3	4	15.9	14.3
1 1/4"	133.4	98.4	4	15.9	17.5
1 1/2"	139.7	104.8	4	15.9	17.5
2"	165.1	127.0	4	15.9	19.1
2 1/2"	184.2	146.1	8	15.9	19.1
3"	203.2	165.1	8	15.9	22.2
3 1/2"	215.9	177.8	8	15.9	22.2
4"	228.6	190.5	8	15.9	25.4
5"	279.4	235.0	8	19.1	28.6
6"	304.8	260.4	12	19.1	28.6
7"	336.6	292.1	12	19.1	31.8
8"	368.3	323.9	12	19.1	31.8
9"	406.4	355.6	12	22.2	34.9
10"	431.8	381.0	12	22.2	34.9
12"	489.0	438.2	16	22.2	38.1
14"	552.5	495.3	16	25.4	41.3
16"	609.6	552.5	20	25.4	44.5
18"	673.1	609.6	20	28.6	47.6
20"	736.6	673.1	24	28.6	50.8
24"	850.9	781.1	25	31.8	57.2



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ND - 10

Nominal Pipe Size (in mm)	Flange Diameter mm	Flange thickness	Raiced Face		number of holes	diameter of holes mm	p.c.d. mm
			diameter mm	height mm			
15	95	14	45	2	4	14	65
20	105	16	58	2	4	14	75
25	115	16	68	2	4	14	85
32	140	18	78	2	4	16	100
40	150	18	88	3	4	18	110
50	165	20	102	3	4	18	125
65	185	20	122	3	4	18	145
80	200	22	138	3	4	18	160
100	220	22	158	3	8	18	180
125	250	24	188	3	8	18	210
150	285	24	212	3	8	23	240
200	340	26	268	3	8	23	295
250	395	28	320	3	12	23	350
300	445	28	370	4	12	23	400

ND - 16

Nominal Pipe Size (in mm)	Flange Diameter mm	Flange thickness steel mm.	Raiced Face (cast iron only)		number of holes	diameter of holes mm	p.c.d. mm
			diameter mm	height mm			
15	95	14	45	2	4	14	65
20	105	15	58	2	4	14	75
25	115	16	68	2	4	14	85
32	140	16	78	2	4	18	100
40	150	16	88	3	4	18	110
50	165	18	102	3	4	18	125
65	185	18	122	3	4	18	145
80	200	20	138	3	8	18	160
100	220	20	158	3	8	18	180
125	250	22	188	3	8	18	210
150	285	22	212	3	8	23	240
200	340	24	268	3	8	23	295
250	405	26	320	3	12	27	355
300	460	28	378	4	12	27	410

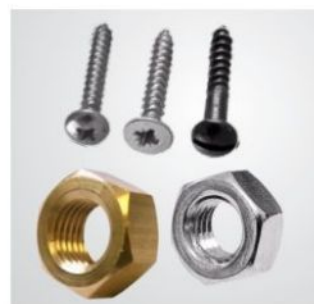
ND - 40

Nominal Pipe Size (in mm)	Flange Diameter mm	Flange thickness steel mm.	Raiced Face (cast iron only)		number of holes	diameter of holes mm	p.c.d. mm
			diameter mm	height mm			
15	95	16	45	2	4	14	65
20	105	18	58	2	4	14	75
25	115	18	68	2	4	14	85
32	140	18	78	2	4	18	100
40	150	18	88	3	4	18	110
50	165	20	102	3	4	18	125
65	185	22	122	3	4	18	145
80	200	24	138	3	8	18	160
100	235	24	162	3	8	23	180
125	270	26	188	3	8	27	220
150	300	28	218	3	8	27	250
200	375	34	285	3	12	30	320
250	450	38	345	3	12	33	385
300	515	42	410	4	16	33	450

IS - 1538

Nominal Pipe Size (in mm)	Diameter of Flange	P.C.D.	Holes		Thickness
			Number	Diameter	
mm	mm	mm	mm	mm	mm
80	200	150	4	19	21
100	220	180	8	19	22
125	250	210	8	19	22.5
150	285	250	8	23	23
200	340	295	8	23	24.5
250	395	350	12	23	26
300	445	400	12	23	27.5

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Carbon Steel	: Bare Condition, Galvanized, Phosphetised, Cadmium Plated etc.
Alloy Steel	: Hot Deep Galvanized, Blue, Nickel Chrome Plated, etc.
Others	: Copper, Brass, Aluminum, Titanium, Nichrome, Al. Bronze, Phosphorous Bronze, etc.
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E-mail : info@rotexgroups.in / rotexmetals@yahoo.com

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Tel. : +91-22-93229 46447 • **Mob.:** +91-90799 76814

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