



# RAJENDRA

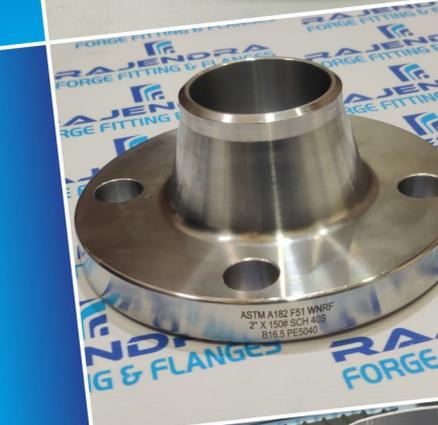
FORGE FITTING & FLANGES



- ↪ Pipes
- ↪ Buttweld Fittings
- ↪ Forged Fittings
- ↪ Flanges

**STRENGTHENING INDUSTRY,  
SEAMLESSLY!**

**STAINLESS STEEL | CARBON STEEL | ALLOY STEEL | HIGH NICKEL ALLOYS**





## COMPANY PROFILE

### Complete Project Supply Capability Across Globe

We, Rajendra forge fitting & Flanges was established in the year 2014 in Mumbai, are primarily engaged as Exporter, Stock-holder and Manufacturer of Stainless Steel, Carbon steel, Alloy steel & Nickel Alloy, and Non-Ferrous Raw Materials also regular supplies to several blue chip & upcoming industries. Our products are manufactured as per JIS/ISS/BSS/DIN/ASTM/ASME and customer's drawings and specifications. All our products are supplied with third party inspection Certificates. We are utilizing high grade raw material and state of the art technology to produce Pipe fittings & Flanges which are available to our clients with manufacturers test certificate as per EN 10204/3.1 & 3.2 under third party inspection and with confirming to NACE MR-01-75.



### Integrated Piping Solutions with Worldwide Fulfillment Capability

We have in house facilities for manufacturing of Fittings, Flanges & Branch connections, such as Cutting, Hot & Cold Forming, Pressing, Welding, Heat Treatment, Machining, Pickling, Hydraulic Testing, Ball Passing and Passivation and anti rust coating for excellent protection & durable packaging. We manufacture fittings & flanges to meet your specifications. We will meet your engineering specs from DIN to ASTM A350 to JIS Standards. Rajendra forge fitting & Flanges specializes in supplying speciality Fittings & flanges to the world's most demanding industries Oil and Gas Exploration and Production, Oil Refining and Processing, Petrochemical, Chemical, Plumbing and HVAC etc.

### Vision

To continuously modernize, expand and technologically upgrade our products with a view to produce excellent and high quality goods in matching with the changing needs of the customers.

### Why Choose Us

#### LEADING STOCKISTS

LEADING stockist and supplier of extensive range of materials in Ferrous, Non ferrous and high nickel alloys



#### QUICK RESPONSE

Fast response with submission of quotations, all products supplied with necessary documents.



#### COMPLETE PIPING SOLUTIONS

Good industry knowledge and experience, with an extensive support network of Approved manufacturers from across the Globe.



#### FLEXIBLE LOGISTICS

Freight packages tailored to the customer requirements.





# PIPES

- Size** : 3/8" NB to 24" NB (seamless) 1/2" to 72" welded
- Wall Thickness** : Sch. 5s to Sch. XXS
- Stainless Steel** : ASTM / ASME SA 312Gr. TP 304, 304L, 304H, 309S, 309H, 310, 310H, 316, 316Ti, 316H, 316LN, 317, 317L, 321, 321H, 347, 347H, 904L
- Duplex Steel** : ASTM / ASME SA 790 UNS No.: 31803 / 32760
- Carbon Steel** : ASTM / ASME A53 Gr. A&B, ASTM A 106 Gr. A,B & C. API 5L Gr. B, API 5L X42, X46, X52, X60, X65 & X70. ASTM / ASME A691 Gr. A,B & C
- Alloy Steel** : ASTM / ASME A 335 Gr. P1, P5, P9, P11, P12, P22, P23, P91
- Cupro Nickel** : 70 : 30 & 90 : 10
- Aluminium Alloys** : 2014, 2024, 5052, 5083, 5086, 6061, 6063, 6082, 6351, 7075

### TYPE

- ROUND ● SQUARE ● RECTANGLE



## STAINLESS STEEL / CARBON STEEL PIPE DIMENSIONS AS PER ASTM & WEIGHT / KG.PER MTR. (ANSI B36.10-36.19)

Nominal pipe size	OD mm	FIGURES BASED ON AUSTENITIC STEEL													Nominal pipe size	FIGURES BASED ON AUSTENITIC STEEL				
		10	20	30	STD	40	60	XS	80	100	120	140	160	XXS		5S	10S	40S	80S	
1/2	21,30	2.10 1.00			2.77 1.27	2.77 1.27		3.73 1.62	3.73 1.62					4.78 1.95	7.47 2.55	1/2	1.65 0.82	2.11 1.01	2.77 1.27	3.73 1.62
3/4	26,70	2.11 1.27			2.87 1.69	2.87 1.69		3.91 2.20	3.91 2.20					5.56 2.90	7.82 3.64	3/4	1.65 1.04	2.11 1.28	2.87 1.69	3.91 2.20
1	33,40	2.77 2.09			3.38 2.50	3.38 2.50		4.55 3.24	4.55 3.24					6.35 4.24	9.09 5.45	1	1.65 1.68	2.77 2.13	3.38 3.55	4.55 3.29
1 1/4	42,20	2.77 2.69			3.56 3.39	3.56 3.39		4.85 4.47	4.85 4.47					6.35 5.61	9.70 7.77	1 1/4	1.65 1.95	2.77 2.76	3.56 3.46	4.85 4.56
1 1/2	48,30	2.77 3.11			3.68 4.05	3.68 4.05		5.08 5.41	5.08 5.41					7.14 7.25	10.15 9.56	1 1/2	1.65 2.24	2.77 3.17	3.68 4.13	5.08 5.51
2	60,30	2.77 3.94			3.91 5.44	3.91 5.44		5.54 7.48	5.54 7.48					8.74 11.11	11.07 13.44	2	1.65 2.39	2.77 4.01	3.91 5.54	5.54 7.63
2 1/2	73,00	3.05 5.25			5.16 8.63	5.16 8.63		7.01 11.41	7.01 11.41					9.53 14.92	14.02 20.39	2 1/2	2.11 3.77	3.05 5.36	5.16 8.81	7.01 11.64
3	88,90	3.05 6.46			5.49 11.29	5.49 11.29		7.62 15.27	7.62 15.27					11.13 21.35	15.24 27.68	3	2.11 4.60	3.05 6.59	5.49 11.52	7.62 15.59
3 1/2	101,60	3.05 7.42			5.74 13.57	5.74 13.57		8.08 18.63	8.08 18.63					-	-	3 1/2	2.11 5.29	3.05 7.55	5.74 13.84	8.08 19.01
4	114,30	3.05 8.37			6.02 16.07	6.02 16.07		8.56 22.32	8.56 22.32					11.13 28.32	13.49 33.54	4	2.11 5.96	3.05 8.52	6.02 16.40	8.56 22.77
5	141,30	3.40 11.61			6.55 21.77	6.55 21.77		9.53 30.97	9.53 30.97					12.70 40.28	15.88 49.11	5	2.77 9.67	3.40 11.82	6.55 22.20	9.53 31.59
6	168,30	3.40 13.81			7.11 28.26	7.11 28.26		10.97 42.56	10.97 42.56					14.27 54.20	18.26 67.56	6	2.77 11.55	3.40 14.13	7.11 28.83	10.97 43.42
8	219,10	3.76 20.01	6.35 33.31	7.04 36.81	8.18 42.55	8.18 42.55	10.30 53.10	12.70 64.74	12.70 64.74	15.09 75.92	18.26 90.44	20.62 100.92	22.37 111.27	23.01 107.92	8	2.77 15.09	3.76 20.37	8.18 43.39	12.70 65.95	
10	273,10	4.19 27.29	6.35 41.77	7.80 51.03	9.27 60.31	9.27 60.31	12.70 81.50	12.70 81.50	15.09 96.01	18.26 114.75	21.44 133.06	25.40 155.15	28.58 172.33	25.40 155.15	10	3.40 23.08	4.19 27.79	9.27 61.52	12.70 83.19	
12	323,90	4.57 36.00	6.35 49.73	8.38 65.20	9.53 73.98	10.31 79.73	14.30 109.00	12.70 97.46	17.48 132.08	21.44 159.91	25.40 186.97	28.58 208.14	33.32 238.76	25.40 186.97	12	3.96 31.89	4.57 35.99	9.53 75.32	12.70 99.43	
14	355,60	6.35 54.69	7.92 67.90	9.53 81.33	11.13 81.33	11.13 94.55	15.10 126.40	12.70 107.39	19.05 158.10	23.83 194.96	27.79 224.65	31.75 253.56	35.71 281.70		14	3.96 35.06	4.78 41.36			
16	406,40	6.35 62.64	7.92 77.83	9.53 93.27	11.13 93.27	12.70 123.30	16.70 160.00	12.70 123.30	21.44 203.53	26.19 245.56	30.96 286.64	36.53 333.19	40.49 365.35		16	4.19 41.56	4.78 47.74			
18	457,00	6.35 70.57	7.92 87.71	11.13 122.38	9.53 105.16	14.27 155.80	19.00 206.00	12.70 139.15	23.83 254.55	29.36 309.62	34.93 363.56	39.67 408.26	45.24 459.37		18	4.19 46.71	4.78 53.31			
20	508,00	6.35 78.55	9.53 117.15	12.70 155.12	9.53 117.15	15.09 183.42	20.60 248.5	12.70 155.12	26.19 311.17	32.54 381.53	38.10 441.49	44.45 508.11	50.01 564.81		20	4.78 59.32	5.54 68.65			
22	559,00	6.35 86.54	9.53 129.13	12.70 171.09	9.53 129.13	-	22.20 294.00	12.70 171.09	28.58 373.83	34.93 451.42	41.28 527.02	47.63 600.63	53.98 672.26		22	4.78 65.33	5.54 75.62			
24	610,00	6.35 94.53	9.53 141.12	14.27 209.64	9.53 141.12	17.48 255.41	24.60 355.00	12.70 187.06	30.96 442.08	38.89 547.71	46.02 640.03	52.37 720.15	59.54 808.22		24	5.54 82.58	6.35 94.53			
26	660,00	7.92 127.36	12.70 202.72	-	9.53 152.87	-	-	12.70 202.72							26					
28	711,00	7.92 137.32	12.70 218.69	15.88 271.21	9.53 164.85	-	-	12.70 218.69							28					
30	762,00	7.92 147.28	12.70 234.67	15.88 292.18	9.53 176.84	-	-	12.70 234.67							30	6.35 118.34	7.92 147.29			
32	813,00	7.92 157.24	12.70 250.64	15.88 312.15	9.53 188.82	17.48 342.91		12.70 250.64							32					
34	864,00	7.92 167.20	12.70 266.61	15.88 332.12	9.53 200.31	17.48 364.90		12.70 266.61							34					
36	914,00	7.92 176.96	12.70 282.27	15.88 351.70	9.53 212.56	19.05 420.42		12.70 282.27							36					
38	965,00				9.53 224.54			12.70 298.24							38					
40	1016,00				9.53 236.53			12.70 314.22							40					
42	1067,00				9.53 248.52			12.70 330.19							42					

WEIGHT OF CARBON STEEL PIPES & TUBES

OD (mm) - W.T. (mm) X W.T. (mm) X 0.02466 = Kg. per Mtr.

Red - Weight

Black - Thickness

Value for information only



## BUTTWELD FITTINGS

### Standards

ASME B16.9, B16.28 & MSS SP-95 - 43

### Stainless Steel & Duplex Steel Fittings

**Size** : Upto 24" NB / Welded Upto 64"

**Schedule** : 10S/40S/80S/160S/XXS

**Stainless Steel** : ASTM A 403 WP - TP 304/304L/304H/316/316L/316H / 316Ti / 309 / 310 / 317L / 321 / 347/904L

**Duplex Steel** : ASTM A 815- UNS S31803, S32750, S32760, S32205

### Alloy Steel, Carbon Steel & LTCS Fittings

**Size** : Upto 24" NB / Welded Upto 64"

**Schedule** : 10/40/60/XS/80/100/120/140/160/XXS

**Alloy Steel** : ASTM A 234 WPB - WP5, WP9, WP11, WP12, WP22, WP91

**Carbon Steel** : ASTM A234 WPB, A420 WPL3, A420 WPL6, MSS SP-75 WPHY 42/46/52

### TYPE

- ELBOW (45, 90, 180 DEG.)
- TEE (BARRED, EQUAL, REDUCING)
- REDUCER (CONCENTRIC & ECCENTRIC)
- COUPLING
- STUBEND
- U BEND / 5D / 8D BENDS
- END CAP
- LATERALS



## SOCKET WELD / FORGED FITTINGS

### Stainless Steel & Duplex Steel Forged Fittings

**Standard** : ANSI B16.11, MSS SP - 97, BS 3799

**Size** : ½" NB to 4" NB, ( Socketweld & Threaded )

**Class** : 3000#, 6000#, 9000#

**Stainless Steel** : ASTM A TP 304/304L/304H/316/316L/ 316H / 316Ti / 309 / 310 / 317L/321/347/904L

**Duplex Steel** : ASTM A 815-UNS S31803, S32750, S32760, S32205

### Alloy Steel, Carbon Steel & LTCS Forged Fittings

**Size** : ½" NB to 4" NB, ( Socketweld & Threaded )

**Class** : 3000#, 6000#, 9000#

**Alloy Steel** : ASTM A 182-F5, F9, F11, F12, F22 & F91

**Carbon Steel** : ASTM A 106 Gr. A/B/C

**Low temp. CS** : A 350 Lf2

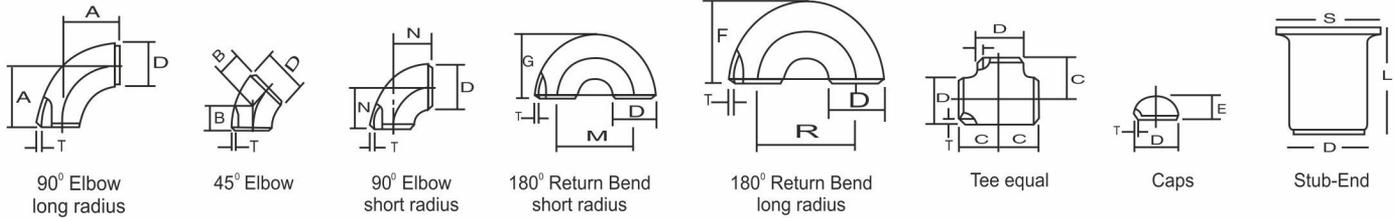
### TYPE

- ELBOW
- TEE
- UNION
- CROSS
- BUSHING
- PLUG
- STREET ELBOW
- HEXAGON NUT
- HOSE NIPPLE
- BEND
- ADAPTER
- INSERT
- SWAGE NIPPLE
- WELDING BOSS
- HEXAGON NIPPLE
- BARREL NIPPLE
- WELDING NIPPLE
- PARRALER NIPPLE
- WELDOLET
- ELBOWLET
- SOCKOLET
- THREDOLET
- NIPOLET
- LETROLET





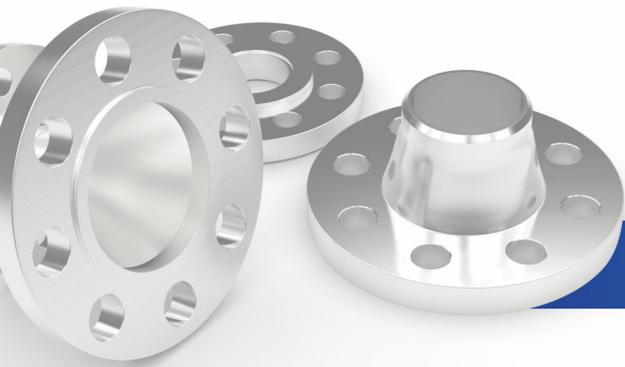
**DIMENSIONS OF BUTTWELD FITTINGS AS PER  
(ANSI B 16.9 / B 16.28 / MSS SP - 43)**



Nominal Pipe Size		Outside Diameter	Center to Face				Back to Face			Center to Center			Length 'L'	
Inch.	mm	D	A	B	C	N	E	F	G	R	M	S	MSS SP43	ANSI B 16.9
1/2	15	21.3	38	16	25	—	25	48	—	38	—	34.9	50.8	76.2
3/4	20	26.7	38	19	29	—	25	51	—	57	—	42.8	50.8	76.2
1	25	33.4	38	22	38	25	38	56	41	76	51	50.8	50.8	101.6
1¼	32	42.2	48	25	48	32	38	70	52	95	64	63.5	50.8	101.6
1½	40	48.3	57	29	57	38	38	83	62	114	76	73	50.8	101.6
2	50	60.3	76	35	64	51	38	106	81	152	102	92	63.5	152.4
2½	65	73.0	95	44	76	64	38	132	100	191	127	104.8	63.5	152.4
3	80	88.9	114	51	86	76	51	159	121	229	152	127	63.5	152.4
3½	90	101.6	133	57	95	89	64	184	140	267	178	139.7	76.2	152.4
4	100	114.3	152	64	105	102	64	210	159	305	203	157.2	76.2	152.4
5	125	141.3	190	79	124	127	76	262	197	381	254	185.7	76.2	203.2
6	150	168.3	229	95	143	152	89	313	237	457	305	215.9	88.9	203.2
8	200	219.1	305	127	178	203	102	414	313	610	406	270	101.6	203.2
10	250	273.1	381	159	216	254	127	518	391	762	508	324	127.0	254.0
12	300	323.9	457	190	254	305	152	619	467	914	610	381	152.4	254.0
14	350	355.6	533	222	279	356	165	711	533	1067	711	412.8	152.4	305.0
16	400	406.4	610	254	305	406	178	813	610	1219	813	470	152.4	305.0
18	450	457.2	686	286	343	457	203	914	686	1372	914	533.4	152.4	305.0
20	500	508.0	762	318	381	508	229	1016	762	1524	1016	584.2	152.4	305.0
22	550	559.0	838	343	419	559	254	1118	838	1676	1118	614.4	152.4	305.0
24	600	610.0	914	381	432	610	267	1219	914	1829	1219	692.2	152.4	305.0
26	650	660.0	991	406	495	660	267	—	—	—	—	—	—	—
28	700	711.0	1067	438	521	711	267	—	—	—	—	—	—	—
30	750	762.0	1143	470	559	762	267	—	—	—	—	—	—	—
32	800	813.0	1219	502	597	813	267	—	—	—	—	—	—	—
34	850	864.0	1295	533	635	864	267	—	—	—	—	—	—	—
36	900	914.0	1372	565	673	914	267	—	—	—	—	—	—	—
38	950	965.0	1448	600	711	965	305	—	—	—	—	—	—	—
40	1000	1016.0	1524	632	749	1016	305	—	—	—	—	—	—	—
42	1050	1067.0	1600	660	762	1067	305	—	—	—	—	—	—	—
44	1100	1118.0	1676	695	813	1118	343	—	—	—	—	—	—	—
46	1150	1168.0	1753	727	851	1168	343	—	—	—	—	—	—	—
48	1200	1219.0	1829	759	889	1219	343	—	—	—	—	—	—	—



All dimensions are in Millimeters. Dimensions and other specifications as per customers requirements are available on request.



# FLANGES

## Stainless Steel & Duplex Steel Flanges

**Size** : ½" NB to 72" NB, ANSI B 16.5  
**Class** : 150#, 300#, 600#, 900#, 1500#, 2500#  
**Stainless Steel** : ASTM A TP 304/304L/304H/316/316L/ 316H / 316Ti/ 309 / 310 / 317L / 321/347/904L  
**Duplex Steel** : ASTM A 815- UNS S31803, S32750, S32760, S32205

## Alloy Steel, Carbon Steel & LTCS Flanges

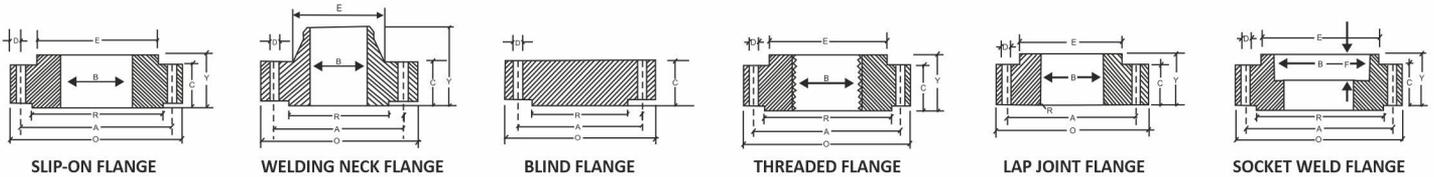
**Alloy Steel** : ASTM A 182-F5, F9, F11, F12, F22 & F91/Low temp. AS A 350 Lf2.  
**Carbon Steel** : ASTM A 105 ASTM A 694 F42, F46, F52, F60, F65, F70

## TYPE

- WELDNECK
- SOCKETWELD
- SLIP ON
- BLIND
- SORF
- ORIFICE
- HEAVY BARREL
- FLANGE
- REINFORCED
- NOZZLE FLANGES
- SCREWED
- THREADED
- LONG WELDNECK
- LAP JOINT
- SPECTACLE BLIND
- HEAVY BARREL
- FLANGES
- END CAP
- LATERALS

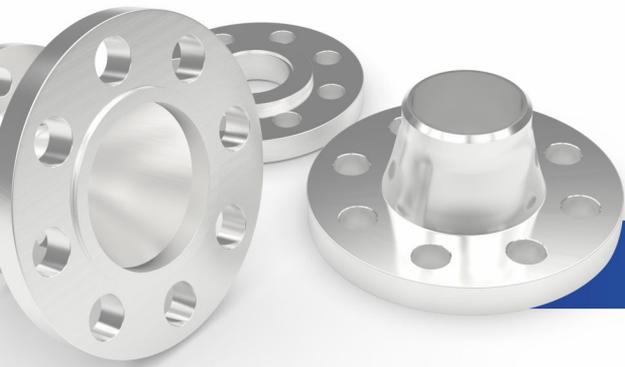
## Copper & Nickel Alloys Flanges

**Cupro Nickel** : C70600(90:10), C71500 (70:30), C71640  
**Nickel** : UNS N02200, N02201  
**Monel** : UNS N04400, N05500, Alloy 20  
**Inconel** : UNS N06600, N06601, N06625, N08800, N08810  
**Hastelloy** : UNS N10276, N06022, N10665, N06455



## 150 LBS

Nominal Pipe Size	Flange Dia	Dia of Bolt Circle A	Dia of Bolt Holes D	No. of Holes	Thk. of Flange C	Dia of Hub E	Length through Hub			Dia of Bore		Dia of R/F R	Depth of Socket F	
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
(MM)	(INCH.)	O	A	D	C	E	Y	Y	Y	B	B	R	F	
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
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
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
32	1¼	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
40	1½	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
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
65	2½	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
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
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	23.8
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	23.8
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	27.0
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	31.7
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	33.3
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	39.7
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	41.3
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	44.4
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	49.2
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	54.0
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	63.5



## DIMENSIONS OF CLASS 300 & 600 FLANGES AS PER (ANSI B 16.5)

### 300 LBS

Nominal Pipe Size		Flange Dia	Dia of Bolt Circle A	Dia of Bolt Holes D	No. of Holes	Thk. of Flange C	Dia of Hub E	Length through Hub			Dia of Bore		Dia of R/F R	Depth of Socket F
								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		F
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
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
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
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
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
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
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
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
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
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	-
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	-
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	-
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	-
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	-
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	-
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	-
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	-
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	-
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	-

### 600 LBS

Nominal Pipe Size		Flange Dia	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	W/N	L/J	S/O & S/W	L/J			
(MM)	(INCH.)	O	A	D		C	E	Y	Y	Y	B	B		F	X
15	1/2	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	3/4	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	1	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	1 1/4	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	1 1/2	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	2	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	2 1/2	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	3	209.5	168.3	22.2	8	31.8	117.5	46.0	82.5	45.9	90.7	91.4	127.0	-	88.90
100	4	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	5	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	6	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	8	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	10	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	12	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	14	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	16	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	18	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	20	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	24	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

All dimensions are in Millimeters. Flanges except Lap joint will be furnished with (6.35 mm) raised face, which is included in "thickness(C)" and "length through hub(Y)"

- Flanges available upto size 100" in 150# & 300#, up to 48" in 600# & 900# and upto 24" in 1500# & 2500#
- We also make 900#, 1500# & 2500#
- Dimensions of 900#, 1500# & 2500# are available on request.



## DIMENSIONS OF CLASS 900 FLANGES AS PER (ANSI B 16.5)

### 900 LBS

Nominal Pipe Size		Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Lenght 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	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	3/4	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	1	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	1¼	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	1½	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	2	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	2½	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	3	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	4	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	5	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	6	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	8	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	10	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	12	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

## FASTENERS

### Inconel Alloys

: Inconel Alloy 600, Inconel Alloy 601, Inconel Alloy 625, Inconel Alloy 718, Inconel Alloy 725, Inconel Alloy X750

### Monel Alloys

: Monel 400, Monel R405, Monel K500

### Incoloy Alloys

: Incoloy Alloy 20, Incoloy Alloy 800, Incoloy Alloy 800H/800HT, Incoloy Alloy 825, Incoloy Alloy 925, Incoloy Alloy A286

### Hastelloy Alloy

: Hastelloy C4, Hastelloy B2, Hastelloy G30, Hastelloy B3, Hastelloy C276, Hastelloy X, Hastelloy C22

### Duplex & Super Duplex

: UNS S31803, UNS S32750, UNS S32760, UNS S32550

### Stainless Steels

: 347, 310, 303, 304/304H, 316/316L, 317/317L, 17/4PH, 410, 431, Nitronic 50, Nitronic 60, Nimonic 80A

### TYPE

- ANCHOR FASTENERS
- SOCKET CAPS SCREW
- EYE BOLTS
- THREADED RODS
- FLAT/SPRING/LOCK WASHERS
- HEX HEAD BOLTS
- HEX NUTS
- STUD BOLTS
- COUNTERSUNK BOLTS
- FOUNDATION BOLTS





## OLETS

Carbon Steel	: ASTM A105, A350 LF2, A694 F42 / F52 / F60 / F65
Stainless Steel	: ASTM A182 F304 / F304L / F316 / F316L / F321 / F347 / F904L
Alloy Steel	: ASTM A182 F5 / F9 / F11 / F22 / F91
Duplex / Super Duplex	: UNS S31803 / S32205 / S32750 / S32760
Nickel Alloys	: Inconel 600 / 625 / 825, Monel 400 / K500, Hastelloy C22 / C276, SMO 254, Cu-Ni 90/10, 70/30

### Size Range

**Header (Run Pipe)** : ½" NB to 72" NB

**Branch (Outlet Size)** : ½" NB to 24" NB

**Schedule Compatibility** : Sch 10 to Sch XXS

**Standards** : MSS-SP-97, ASME B31.1, B31.3, project-specific specs

### Type

- Weldolet
- Sockolet Threadolet
- Elbolet
- Latrolet – 45°
- Nipolet
- Sweepolet
- Flangolet / Coupolet

## ANCHOR FLANGE

Carbon Steel	: ASTM A105, A350 LF2, A694 F42 / F52 / F60 / F65
Stainless Steel	: ASTM A182 F304 / F304L / F316 / F316L / F317 / F321 / F347 / F904L
Alloy Steel	: ASTM A182 F5 / F9 / F11 / F22 / F91
Duplex Steel	: ASTM A182 F51 / F53 / F55 (UNS S31803 / S32750 / S32760)
Nickel Alloys	: Inconel 600 / 625 / 800 / 825, Monel 400 / K500, Hastelloy C22 / C276, SMO 254, Nickel 200 / 201, Cu-Ni 90/10, 70/30

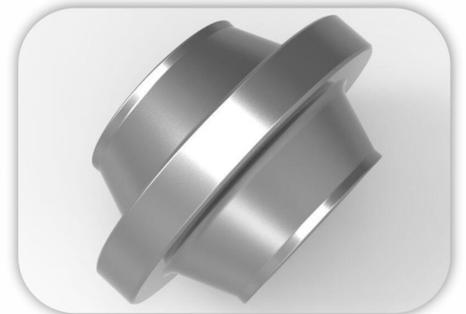
**Dimensions** : ASME B16.5 / B16.47 Series A & B

**Size Range** : 1" NB to 48" NB

**Class Ratings** : 150# to 2500#

**Weld End Type** : Butt Weld or Socket Weld as per piping layout

**Fabrication** : One-piece forged or multi-part welded assemblies



## LONG WELD NECK FLANGES (LWN) / NOZZLE FLANGES

Carbon Steel	: ASTM A105, A350 LF2, A694 F42 / F52 / F60 / F65
Stainless Steel	: ASTM A182 F304 / F304L / F316 / F316L / F317 / F321 / F347 / F904L
Alloy Steel	: ASTM A182 F5 / F9 / F11 / F22 / F91
Duplex Steel	: ASTM A182 F51 / F53 / F55 (UNS S31803 / S32750 / S32760)
Nickel Alloys	: Inconel 600 / 625 / 800 / 825, Monel 400 / K500, Hastelloy C22 / C276, SMO 254, Nickel 200 / 201, Cu-Ni 90/10, 70/30

**Dimensions** : ASME B16.5 / B16.47 Series A & B

**Size Range** : 1" NB to 48" NB

**Class Ratings** : 150# to 2500#

**Weld End Type** : Butt Weld or Socket Weld as per piping layout

**Fabrication** : One-piece forged or multi-part welded assemblies

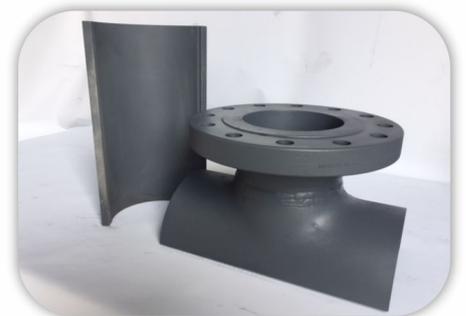
## SPLIT TEE

Carbon Steel	: ASTM A234 WPB, A420 WPL 6, A860 WPHY 42/52/60/65
Stainless Steel	: A403 WP 304/304L/316/316L/317/321/347/904L
Alloy Steel	: A234 WP5/WP11/WP9/WP22/WP91
Duplex Steel	: A815 UNS S31803/S32205/S32750/S32760
Nickel Alloys	: Nickel 200/201, Inconel 600/625/800/825, SMO254, Monel 400/K500, Hastelloy C276/C22, Cu-Ni 90/10, 70/30

**Dimensions** : ASME/ANSI B16.9, ASME B16.28, MSS-SP-43

**Size** : 1/2" NB TO 48" NB (Seamless / Welded / Fabricated)

**Thickness** : Sch 5s to Sch XXS



## SPECTACLE BLINDS / SPADE & SPACER SETS

Carbon Steel	: ASTM A105, A516 Gr. 60/70, A105, A350 Lf2
Stainless Steel	: ASTM A182 F304 / F304L / F316 / F316L / F321 / F347 / F904L
Alloy Steel	: ASTM A182 F5 / F11 / F22 / F91
Duplex Steel	: ASTM A182 F51 / F53 / F55 (UNS S31803 / S32750 / S32760)
Nickel Alloys	: Inconel 600 / 625 / 825, Monel 400 / K500, Hastelloy C22 / C276, SMO 254, Nickel 200 / 201, Cu-Ni 90/10, 70/30

**Dimensions** : ASME B16.48, ASME B16.5 / B16.47 Series A & B

**Size Range** : ½" NB to 48" NB

**Pressure Class** : 150# to 2500#

**Thickness** : As per line class or project specification

**Facing** : RF / RTJ / FF



## BARRED TEE

<b>Carbon Steel</b>	: ASTM A234 WPB, A420 WPL 6, A860 WPHY 42/52/60/65
<b>Stainless Steel</b>	: A403 WP 304/304L/316/316L/317/321/347/904L
<b>Alloy Steel</b>	: A234 WP5/WP11/WP9/WP22/WP91
<b>Duplex Steel</b>	: A815 UNS S31803/S32205/S32750/S32760
<b>Nickel Alloys</b>	: Nickel 200/201, Inconel 600/625/800/825, SMO254, Monel 400/K500, Hastelloy C276/C22, Cu-Ni 90/10, 70/30
<b>Dimensions</b>	: ASME/ANSI B16.9, ASME B16.28, MSS-SP-43
<b>Size</b>	: 1/2"NB TO 48"NB (Seamless / Welded / Fabricated)
<b>Thickness</b>	: Sch 5s to Sch XXS

## MITER BEND

<b>Carbon Steel</b>	: ASTM A234 WPB, A420 WPL6, A516 Gr. 60 / 70
<b>Stainless Steel</b>	: ASTM A403 WP304 / 304L / 316 / 316L / 321 / 347 / 904L
<b>Alloy Steel</b>	: ASTM A234 WP5 / WP11 / WP22 / WP91
<b>Duplex / Super Duplex</b>	: UNS S31803 / S32205 / S32750 / S32760
<b>Nickel Alloys</b>	: Inconel 600 / 625 / 825, Monel 400 / K500, Hastelloy C22 / C276, SMO 254, Cu-Ni 90/10, 70/30
<b>Size Range</b>	: 2" NB to 72" NB (or custom)
<b>Bend Angles</b>	: 15°, 30°, 45°, 60°, 90° & Custom Angles
<b>Segment Type</b>	: 2-piece, 3-piece, 5-piece, etc.
<b>Wall Thickness</b>	: Sch 10 to Sch XXS or as per design
<b>Design Standards</b>	: ASME B31.3, B31.1, B16.9 (for reference), project-specific codes



## INDUCTION BENDS (3D / 5D / 10D)

<b>Carbon Steel</b>	: ASTM A234 WPB, A420 WPL6, API 5L Gr. B / X42 / X52 / X60 / X65 / X70
<b>Stainless Steel</b>	: ASTM A403 WP304 / 304L / 316 / 316L / 321 / 347 / 904
<b>Alloy Steel</b>	: ASTM A234 WP5 / WP11 / WP22 / WP91
<b>Duplex &amp; Super Duplex</b>	: UNS S31803 / S32205 / S32750 / S32760
<b>Nickel Alloys</b>	: Inconel 600 / 625 / 825, Monel 400 / K500, Hastelloy C22 / C276, SMO 254, Cu-Ni 90/10, 70/30
<b>Bend Radius</b>	: 3D, 5D, 6D, 8D, 10D & Custom
<b>Size Range</b>	: 2" NB to 48" NB
<b>Thickness</b>	: Sch 10 to Sch XXS
<b>Standards</b>	: ASME B16.49, API 5L, MSS-SP-75, or project-specific specs
<b>Bend Angle</b>	: 15°, 30°, 45°, 60°, 90°, or as per drawing
<b>End Prep</b>	: Beveled / Plain / Custom Machined Ends

## LATERAL TEE

<b>Carbon Steel</b>	: ASTM A234 WPB, A420 WPL 6, A860 WPHY 42/52/60/65
<b>Stainless Steel</b>	: A403 WP 304/304L/316/316L/317/321/347/904L
<b>Alloy Steel</b>	: A234 WP5/WP11/WP9/WP22/WP91
<b>Duplex Steel</b>	: A815 UNS S31803/S32205/S32750/S32760
<b>Nickel Alloys</b>	: Nickel 200/201, Inconel 600/625/800/825, SMO254, Monel 400/K500, Hastelloy C276/C22, Cu-Ni 90/10, 70/30
<b>Dimensions</b>	: ASME/ANSI B16.9, ASME B16.28, MSS-SP-43
<b>Size</b>	: 1/2"NB TO 48"NB (Seamless / Welded / Fabricated)
<b>Thickness</b>	: Sch 5s to Sch XXS



## FABRICATED SPOOLS

<b>Carbon Steel</b>	: ASTM A106 Gr. B, A105, A234 WPB, A420 WPL6
<b>Stainless Steel</b>	: ASTM A312 TP304 / 304L / 316 / 316L / 321 / 347 / 904L
<b>Alloy Steel</b>	: ASTM A335 P5 / P9 / P11 / P22 / P91
<b>Duplex / Super Duplex</b>	: UNS S31803 / S32205 / S32750 / S32760
<b>Nickel Alloys</b>	: Inconel 600 / 625 / 825, Monel 400 / K500, Hastelloy C22 / C276, SMO 254, Cu-Ni 90/10, 70/30
<b>Pipe Size Range</b>	: 1/2" NB to 72" NB
<b>Thickness Range</b>	: Sch 10 to Sch XXS
<b>Length</b>	: As per isometric drawing or project requirement
<b>Standards</b>	: ASME B31.1 / B31.3, ASME Section IX, API 5L, client specs
<b>End Preparation</b>	: Beveled, Plain, Flanged, or Threaded

# RAJENDRA

## FORGE FITTING & FLANGES



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