

CARBON STEEL FITTINGS

**BUTT WELD
FORGED STEEL
FLANGES
HOT INDUCTION BENDS**

BUTT WELD FITTINGS DIMENSION ANSI B 36.10

NB	OD(mm)	10	20	30	STD	40	60	XS	80	100	120	140	160	XXS
1/8"	10.3				1.73	1.73		2.41	2.41					
1/4"	13.7				2.24	2.24		3.02	3.02					
3/8"	17.1				2.31	2.31		3.2	3.2					
1/2"	21.3				2.77	2.77		3.73	3.73				4.78	7.47
3/4"	26.7				2.87	2.87		3.91	3.91				5.56	7.82
1"	33.4				3.38	3.38		4.55	4.55				6.35	9.09
1.1/4"	42.2				3.56	3.56		4.85	4.85				6.35	9.7
1.1/2"	48.3				3.68	3.68		5.08	5.08				7.14	10.15
2"	60.3				3.91	3.91		5.54	5.54				8.74	11.07
2.1/2"	73.02				5.16	5.16		7.01	7.01				9.53	14.02
3"	88.9				5.49	5.49		7.62	7.62				11.13	15.24
3.1/2"	101.6				5.74	5.74		8.08	8.08					16.20
4"	114.3				6.02	6.02		8.56	8.56		11.13		13.49	17.12
5"	141.3				6.55	6.55		9.53	9.53		15.10		15.88	19.05
6"	168.3				7.11	7.11		10.97	10.97		14.27		18.26	21.96
8"	219.1		6.35	7.03	8.18	8.18	10.31	12.7	12.7	15.10	18.26	20.62	23.01	22.23
10"	273.05		6.35	7.8	9.27	9.27	12.7	12.7	15.09	18.26	21.44	25.4	28.58	25.4
12"	323.9		6.35	8.4	9.53	10.31	14.27	12.7	17.48	21.44	25.4	28.58	33.32	25.4
14"	355.6	6.35	7.92	9.53	9.53	11.31	15.09	12.7	19.05	23.83	27.79	31.75	35.71	
16"	406.4	6.35	7.92	9.53	9.53	12.7	16.66	12.7	21.44	26.19	30.96	36.53	40.49	
18"	457.2	6.35	7.92	11.13	9.53	14.27	19.05	12.7	23.83	29.36	34.93	39.67	45.24	
20"	508	6.35	9.53	12.7	9.53	15.09	20.62	12.7	26.19	32.54	38.1	44.45	50.01	
22"	558.8	6.35	9.53	12.7	9.53		22.22	12.7	28.57	34.93	41.27	47.62	53.98	
24"	609.6	6.35	9.53	14.27	9.53	17.48	24.61	12.7	30.96	38.89	46.02	52.37	59.54	
26"	660.4	7.92	12.7		9.53			12.7						
28"	711.2	7.92	12.7	15.87	9.53			12.7						
30"	762	7.92	12.7	15.87	9.53			12.7						
32"	812.8	7.92	12.7	15.87	9.53			12.7						
34"	863.6	7.92	12.7	15.87	9.53	17.47		12.7						
36"	914.4	7.92	12.7	15.87	9.53	17.47		12.7						
38"	965.2				9.53	19.05		12.7						
40"	1016				9.53			12.7						
42"	1066.8				9.53			12.7						
44"	1117.6				9.53			12.7						
46"	1168.4				9.53			12.7						
48"	1219.2				9.53			12.7						

O.D. = mm / WALL THICKNESS = mm

WROUGHT CARBON STEEL BUTT-WELDED FITTINGS



45 D ELBOW



90 D ELBOW



180 D ELBOW



CON REDUCER



ECC REDUCER



EQUAL TEE



REDUCING TEE



BEND



CAP

APPLICABLE STANDARD

1. Butt-weld fittings are manufactured in accordance with ANSI standards B 16.9 and B 16.28 for dimensions, shapes and Dimensional tolerances.
2. Butt-weld fittings are machined in accordance with ANSI B16.25 Standards for welding and preparation,
3. Manufacturing methods, quality and so on are based upon ASTM A234 and MSS-SP-25 specifications.

ASTM/ASME Standards

B16.9 Wrought Steel Butt-welding fittings

B16.28 Wrought Steel Welding short radius elbows and returns.

B16.25 Butt-Welding Ends.

B16.11 Forged Steel Fittings, Socket-Welding and Threaded.

B36.10 Welded and Seamless Wrought Steel Pipe.

ASTM Standards

A234 Pipe fittings of Wrought Carbon Steel and Alloy steel moderate and elevated temperatures.

A403 Wrought Austenitic Stainless Steel pipe fittings.

A420 Pipe fittings of Wrought Carbon Steel and Alloy Steel For Low Temperature service.

B366 Nickel & Nickel Alloy fittings (BW)
Cu N: 10/30, Cu N: 90/10, B111, B543, C70600, C71500, BS 2872, CN 102, CN107—Copper Nickel fittings.

B111 Aluminium Bronze Fittings
ASTM B543, C68700, BS 2872, CZ110

HOT INDUCTION BENDS



SEAMLESS BEND



ERW BEND



HIGH PRESSURE BEND



ALLOY STEEL BEND

Standard:

ANSI B16.9 / 16.28, ASTM A53/A106, API 5L, ASME B36.10M---1996, DIN2605 / 2615 / 2616, JIS P2311/2312

Thickness:

SGP, STD, SCH40, SCH80, SCH160. XS,XXS and so on.

Size:

2"--66"

Material:











Carbon steel , alloy steel, stainless steel

Surface treatment:

Transparent oil, rust-proof black oil or hot galvanized.

Special design available. All the production process are made according to ISO9001:2000 strictly.

CARBON STEEL & STAINLESS STEEL FITTINGS

Nominal diameter in inch			1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"
Nominal diameter in mm			8	10	15	20	25	32	40	50	65	80	100
	3000 lbs	O.D.	19	22	28	35	44	57	63	76	63	76	19
		Length	35	38	48	51	60	67	79	86	79	86	35
	6000 lbs	O.D.	26	32	38	44	57	63	76	90	76	90	26
		Length	35	38	48	51	60	67	79	86	79	86	35
Couplings													
	3000 lbs.	O.D.	19	22	28	35	44	57	63	76	90	108	140
		Length	17	19	24	25	30	33	40	43	46	54	60
	6000 lbs	O.D.	26	32	38	44	57	63	76	90	108	127	
		Length	17	19	24	25	30	33	40	43	46	54	
Half Couplings													
	3000 lbs	O.D.	19	22	28	35	44	57	63	76	90	108	140
		Length	35	38	48	51	60	67	79	86	92	108	121
	6000 lbs	O.D.	26	32	38	44	57	63	76	90	108	127	
		Length	35	38	48	51	60	67	79	86	92	108	
Reducing Couplings													
	3000 lbs 6000 lbs	O.D.	17	17	22	27	35	46	50	63	77	89	117
		Length	28	33	37	42	48	55	57	61	73	78	89
Hexagonal Nipples													
	6000 lbs	Nominal Width Flats	17	19	22	27	35	45	50	63	77	89	117
Reducing Bush Type A													
	6000 lbs	Nominal Width Flats	17	19	22	27	35	45	51	63	76	90	117
Reducing Bush Type B													
	6000 lbs	Nominal Width Flats	17	19	22	27	35	46	51	63	76	90	117
		Length	17	21	23	26	29	35	37	39	46	50	57
Hex. Head Plug													
	3000 lbs	Nominal Width Flats	10	11	15	16	21	24	29	34	38	43	64
		Length	17	21	25	27	32	35	37	39	46	50	57
Square Head Plug													
	6000 lbs	Nominal Width Flats	14	20	22	28	35	45	50	63	75	95	120
		Length	41	41	44	44	51	51	51	64	70	70	76
Round Head Plug													
	3000 lbs	O.D.	20	22	28	35	45	55	64	76	95	108	140
		Length	25	25	32	37	41	44	44	48	60	68	74
	6000 lbs	O.D.	26	32	38	45	55	63	75	92	108	130	
		Length	27	27	33	38	43	46	48	51	64	68	
Caps													

FORGED STEEL FITTINGS SCREW ENDS

Nominal diameter in inch		1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"	
Nominal diameter in mm		8	10	15	20	25	32	40	50	65	80	100	
	2000 lbs	OD	25	25	33	38	46	56	62 <small>Sizes in mm</small> 76				
		Centre to End	24	24	28	34	38	44	50	60			
	3000 lbs	OD	25	33	38	46	56	62	76	85	102	121	153
		Centre to End	24	28	34	38	44	50	60	64	82	95	114
90° ELBOWS													
	2000 lbs	OD	25	25	33	38	46	56	62	76			
		Centre to End	18	18	21	24	28	32	34	42			
	3000 lbs	OD	25	33	38	46	56	62	76	85	102	121	153
		Centre to End	18	21	24	28	32	34	42	43	52	63	78
45° ELBOWS													
	3000 lbs	Diameter	25	33	38	46	56	62	76	85			
		Centre to End	32	32	37	42	47	63	73	80			
STREET ELBOWS		Centre to End (Female)	24	28	33	36	44	51	60	65			
	2000 lbs	OD	25	25	33	38	46	56	62	76			
		Length	49	49	56	68	76	88	100	120			
	3000 lbs	OD	25	33	38	46	56	62	76	85	102	121	153
		Length	49	56	68	76	88	100	120	126	164	190	228
TEES													
	3000 lbs	Width Flats	36	41	46	56	65	80	87	100	122	149	200
		Length	43	50	51	57	63	70	76	90	118	118	147
	6000 lbs	Width Flats			56	65	80	87	100	122			
		Length			57	63	70	88	88	118			
UNIONS FF													
	3000 lbs	Width Flats	36	41	46	56	65	80	87	100			
		Length	60	68	72	80	87	98	105	120			
	6000 lbs	Width Flats			56	65	80	87	100				
		Length			80	87	99	105	120				
UNION MF													
	NIPPLES	Sch 80	3.03	3.20	3.73	3.91	4.55	4.85	5.08	5.54	On Request		
		Sch 160			4.78	5.56	6.35	6.35	7.14	8.74	On Request		
		Sch XXS			4.47	7.82	9.09	9.70	10.16	11.07	On Request		



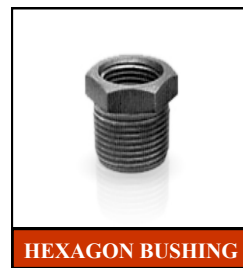
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LUG NUT



LATERAL










HEXAGON BUSHING



FLUSH BUSHING

CARBON, STAINLESS AND ALLOY STEEL FITTINGS SOCKET WELD ENDS

		Nominal diameter in inches	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"
		Nominal diameter in mm	8	10	15	20	25	32	40	50	65	80	100
 90° ELBOW	3000 lbs	O.D.	25	33	33	38	46	56	62	76	92	110	153
		Length	24	28	28	34	38	44	50	59	74	84	114
	6000 lbs	O.D.	25	33	38	46	56	62	76	85	102	121	153
		Length	24	28	34	38	44	50	59	63	82	95	114
 45° ELBOW	3000 lbs	O.D.	25	33	33	38	46	56	62	76	102	121	153
		Centre to End	18	21	21	24	28	32	34	42	52	63	78
	6000 lbs	O.D.			38	46	56	62	76	85	102	121	153
		Centre to End			24	28	32	34	42	43	52	63	78
 TEES	3000 lbs	O.D.	25	33	33	38	46	56	62	76	102	110	146
		Length	49	56	56	68	76	88	100	120	164	168	212
	6000 lbs	O.D.	25	33	38	46	56	62	76	85	102	121	153
		Length	49	56	68	76	88	100	120	126	164	190	228
 UNION	3000 lbs	Width Flats	36	41	46	56	65	80	87	100	122	149	200
		Length	43	50	51	57	63	70	76	90	118	118	147
	6000 lbs	Width Flats			56	65	80	87	100	122			
		Length			57	63	70	76	88	118			
 FULL COUPLING	3000 lbs	O.D.	22	26	32	38	45	55	63	76	95	110	140
		Length	25	23	26	32	35	35	35	47	46	46	52
	6000 lbs	O.D.	26	28	35	45	50	63	68	85	100	120	150
		Length	25	23	26	32	35	35	35	47	46	46	52
 HALF COUPLING	3000 lbs	O.D.	22	26	32	38	45	55	63	76	95	110	140
		Length	25	26	31	35	40	41	43	45	56	58	64
	6000 lbs	O.D.	26	28	35	45	50	63	68	85	100	120	150
		Length	25	26	31	35	40	41	43	45	56	58	64
 REDUCER INSERT	3000 lbs	O.D.	22	26	32	38	45	55	63	75	92	108	140
		Length	15	15	17	20	23	23	24	29	32	35	41
	6000 lbs	O.D.	26	28	35	45	50	63	68	85	100	120	150
		Length	17	17	18	21	24	24	26	32	35	38	48

