BUTTWELD FITTINGS DIMENSIONAL STANDARD ANSI B-16.9, B-16.28, MS SS P43

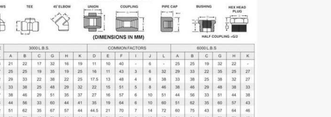
Nominal Pipe Size	Outside Diameter	Center to Face						Back to Face		Center to Center				Length Y MS SS P43
Inch.	mm.	D	A	B	C	N	E	F	G	H	M	S	L	
1/2	15	21.3	38.00	16.0	25.0	-	25.0	48.0	-	76.0	-	35.0	50.8	76.2
3/4	20	26.7	29.00	11.0	29.0	-	25.0	43.0	-	57.0	-	43.0	50.8	76.2
1	25	33.4	38.00	22.0	38.0	25.0	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	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	76.2	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	125.0	127.0	76.0	262.0	197.0	381.0	254.0	186.0	89.0	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	205.2
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	254
12	300	323.9	457.0	190.0	254.0	305.0	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	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	838.0	343.0	419.0	559.0	254.0	1118.0	838.0	1676.0	1118.0	614.4	152.4	305.0
24	600	610	914.0	381.0	457.0	610.0	267.0	1219.0	914.0	1829.0	1219.0	692.0	152.4	305.0
26	650	660	991.0	406.0	495.0	660.0	267.0							
28	700	711	1067.0	438.0	521.0	711.0	267.0							
30	750	762	1143.0	470.0	559.0	762.0	267.0							
32	800	813	1219.0	502.0	597.0	813.0	267.0							
34	850	864	1295.0	533.0	635.0	864.0	267.0							
36	900	914	1372.0	565.0	673.0	914.0	267.0							

SOCKETWELD FITTINGS

SOCKET WELD FITTING TO ANSI B-16.11

NOM	PIPE	3000LBS.						COMMONFACTORS						6000LBS.					
BORE	O.D.	A	B	K	L	M	N	P	Q	C	D	E	F	B	M	K	N
1/8"	10.3	22	18.5	26	16	40	17.3	32	17.5	10	10.7	3	5	27	25	26	20
1/4"	13.7	22	22	26	16	43	21.2	32	17.5	10	14.1	10	5	8	27	25	24	25	31
3/8"	17.2	25	25	26	16	46	24.4	36	19	10	17.8	5	6	31	29	28	26	30	33
1/2"	21.3	27	32	30	21	51	31	43	22	10	21.7	10	6	13	35	31	34	31	72
3/4"	26.7	34	38	36	24	57	37	50	25	13	27	13	6	16	41	36	38	36	75
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	56	41	100
1 1/2"	48.3	47	62	40	30	76	61.4	79	32	13	48.7	13	9	17	52	67	64	46	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"	73.00	60	92	52	40	114	91.3	125	38	16	77.9	16	15	23	64	102		60	152
3"	89.00	76	110	52	51	127	108.8	140	44	16	90.4	16	14	24		121		58	
4"	114.00	86	137	56	57	152	136.5		52	19	115.5	19	17	24		152		64	

FORGED SCREWED FITTING TO ANSI B-16.11 3000/6000 LBS. THREADED TO ASA B 2.1

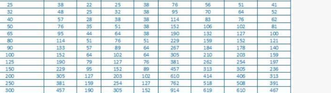


(DIMENSIONS IN MM)

NOM	PIPE	3000LBS.								COMMONFACTORS							6000LBS.						
BORE	O.D.	A	B	C	G	H	K	D	E	F	T	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	18	35	19	25	16	11	40	2	6	32	32	29	28	22	38	25	27
3/8"	17.2	29	33	22	38	22	25	17.5	13	48	4	8	38	33	38	35	28	38	32	27
1/2"	21.3	33	38	25	48	29	32	22	16	51	5	8	46	38	46	39	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	42	54	33	60	44	37	33	19	64	7	10	60	51	64	52	60	46	37	
1 1/4"	42.2	51	62	35	67	57	44	44.5	21	70	7	14	72	60	67	48	67	44	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	44	84	45	86	76	48	63.5	22	88	9	17	94	83	92	52	88	92	51	
2 1/2"	73.00	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	108	121	75	108	127	68	
4"	114.5	114	152	79	121	140	68	117.5	32	130	13	25	180	114	152	79	121	108	75	

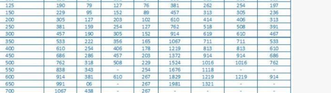
DIMENSIONS AND OTHERS SPECIFICATION AS PER CUSTOMERS REQUIREMENTS ARE AVAILABLE ON REQUEST

ELBOW



Nom. Pipe Size mm Dia. Nom.	A	B	D	E	O	K	Os	Rs
15	38	16	-	25	76	48	-	-
20	48	21	-	29	76	48	-	-
25	38	22	25	38	79	56	51	41
32	48	25	32	38	95	70	64	52
40	57	28	38	38	114	83	76	62
50	76	35	51	38	152	106	102	81
65	95	44	64	38	190	132	127	100
80	114	51	76	51	229	159	152	121
90	133	57	89	64	267	184	178	140
100	152	64	102	76	305	210	203	159
125	190	79	127	76	381	262	254	197
150	229	95	152	89	457	313	305	236
200	305	127	203	102	610	414	406	313
250	381	159	254	127	762	521	508	391
300	457	190	305	152	914	619	610	467
350	533	222	356	165	1067	711	711	533
400	610	254	406	178	1219	813	813	610
450	686	286	457	203	1372	914	914	686
500	762	318	508	229	1524	1016	1016	762
550	838	343	-	254	1676	1118	-	-
600	914	381	610	267	1829	1219	1219	914
650	991	406	-	267	1981	1321	-	-
700	1067	438	-	267	-	-	-	-
750	1143	470	762	267	2286	1524	1524	1143
800	1219	502	-	267	-	-	-	-
850	1295	533	-	267	-	-	-	-
900	1372	565	914	267	-	-	1829	1372
1000	1600	640	-	305	-	-	-	-
1200	1829	799	1219	343	-	-	-	-

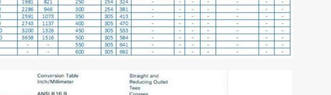
Nom. Pipe Size mm Dia. Nom.	A	B	Nom. Pipe Size Dia. Nom.	F	G	Nom. Pipe Size Dia. Nom.	C	A	B	Nom. Pipe Size Dia. Nom.	O	K
50	152	64	15	76	35	40	25	57	89	25	102	67
80	229	95	20	76	43	50	32	76	108	32	127	84
100	305	127	25	51	51	65	38	95	127	40	152	100
150	457	190	32	102	64	80	32	114	146	50	203	132
200	610	254	40	102	73	90	38	133	178	65	254	164
250	762	318	50	152	92	100	38	152	190	-	-	-
300	914	381	65	203	105	125	38	190	229	-	-	-
350	1067	444	80	152	127	150	44	229	273	-	-	-
400	1219	505	90	152	140	200	51	267	349	-	-	-
450	1372	568	100	152	157	250	51	381	432	-	-	-
500	1524	632	125	203	189	300	57	457	521	61	61	50
550	1676	684	150	203	216	-	-	-	-	-	-	-
600	1829	757	200	203	270	-	-	-	-	-	-	-
650	1981	821	250	254	324	-	-	-	-	-	-	-
750	2286	946	300	254	381	-	-	-	-	-	-	-
850	2591	1073	350	305	413	-	-	-	-	-	-	-
900	2743	1137	400	305	470	-	-	-	-	-	-	-
1000	3048	1326	450	305	533	-	-	-	-	-	-	-
1200	3658	1518	500	305	584	-	-	-	-	-	-	-
-	-	-	550	305	641	-	-	-	-	-	-	-
-	-	-	600	305	692	-	-	-	-	-	-	-



Nom. Pipe Size mm Dia. Nom.	A	B	D	E	O	K	Os	Rs
15	38	16	-	25	76	48	-	-
20	38	21	-	29	76	48	-	-
25	38	22	25	38	76	56	51	41
30	48	25	32	38	76	70	64	52
40	57	28	38	38	114	83	76	62
50	76	35	51	38	152	106	102	81
65	95	44	64	38	190	132	127	100
80	114	51	76	51	229	159	152	121
90	133	57	89	64	267	184	178	140
100	152	64	102	76	305	210	203	159
125	190	79	127	76	381	262	254	197
150	229	95	152	89	457	313	305	236
200	305	127	203	102	610	414	406	313
250	381	159	254	127	762	521	508	391
300	457	190	305	152	914	619	610	467
350	533	222	356	165	1067	711	711	533
400	610	254	406	178	1219	813	813	610
450	686	286	457	203	1372	914	914	686
500	762	318	508	229	1524	1016	1016	762
550	838	343	-	254	1676	1118	-	-
600	914	381	610	267	1829	1219	1219	914
650	991	406	-	267	1981	1321	-	-
700	1067	438	-	267	-	-	-	-
750	1143	470	762	267	2286	1524	1524	1143
800	1219	502	-	267	-	-	-	-
850	1295	533	-	267	-	-	-	-
900	1372	565	914	267	-	-	1829	1372
1000	1600	640	-	305	-	-	-	-
1200	1829	799	1219	343	-	-	-	-

Nom. Pipe Size mm Dia. Nom.	A	B	Nom. Pipe Size Dia. Nom.	F	G	Nom. Pipe Size Dia. Nom.	C	A	B	Nom. Pipe Size Dia. Nom.	O	K
50	152	64	15	76	35	40	25	57	89	25	102	67
80	229	95	20	76	43	50	32	76	108	32	127	84
100	305	127	25	51	51	65	38	95	127	40	152	100
150	457	190	32	102	64	80	32	114	146	50	203	132
200	610	254	40	102	73	90	38	133	178	65	254	164
250	762	318	50	152	92	100	38	152	190	-	-	-
300	914	381	65	203	105	125	38	190	229	-	-	-
350	1067	444	80	152	127	150	44	229	273	-	-	-
400	1219	505	90	152	140	200	51	267	349	-	-	-
450	1372	568	100	152	157	250	51	381	432	-	-	-
500	1524	632	125	203	189	300	57	457	521	61	61	50
550	1676	684	150	203	216	-	-	-	-	-	-	-
600	1829	757	200	203	270	-	-	-	-	-	-	-
650	1981	821	250	254	324	-	-	-	-	-	-	-
750	2286	946	300	254	381	-	-	-	-	-	-	-
850	2591	1073	350	305	413	-	-	-	-	-	-	-
900	2743	1137	400	305	470	-	-	-	-	-	-	-
1000	3048	1326	450	305	533	-	-	-	-	-	-	-
1200	3658	1518	500	305	584	-	-	-	-	-	-	-
-	-	-	550	305	641	-	-	-	-	-	-	-
-	-	-	600	305	692	-	-	-	-	-	-	-

TEE



Nom. Pipe Size mm. Dia. Nominal		Center to End of Run Normal		Center to End of Branch Normal		Nom. Pipe Size Nominal		Nom. Pipe Size Nominal		Center to End of Run		Center to End of Branch
	Run	Branch	C	M		Run	Branch			C		M
15	15	6	25	25	80	80	25	80	65	86		67
	20	25	25	29		80	40			89		70
	25	25	25	25		40	86			73		
20	20	25	28	28		80	50			89		76
	25	28	28	28		80	65			86		83
	32	28	28	28		80	80			89		86
25	10	34	34	34		40	95			95		93
	20	34	34	34	90	65	95			95		89
	25	34	34	34		80	95			92		
32	15	48	48	48		90	95			95		95
	20	48	48	48		40	105			86		86
	25	48	48	48	100	80	105			89		89
	32	48	48	48		90	105			95		95
40	15	57	57	57		100	105			99		
	20	57	57	57		100	105			105		105
	25	57	57	57		40	124			105		105
	32	57	57	57	125	65	124			108		111
	40	57	57	57		80	124			111		117
50	15	64	44	44		90	124			117		123
	20	64	53	53		100	124			124		124
	25	64	57	57		125	124			124		
	32	64	60	60		40	140			121		
	40	64	64	60		65	140			124		
	50	64	64	60	150	80	140			127		
65	25	76	57	57		90	140			130		
	32	76	64	64		100	140			130		
	40	76	67	67		125	140			140		
	50	76	70	70								
	65	76	76	76								

REDUCER

CONCENTRIC

ECCENTRIC

Nom. Pipe Size mm Dia. Nominal		H	Nom. Pipe Size Dia. Nominal		H	Nom. Pipe Size Dia. Nominal		H	Nom. Pipe Size Dia. Nominal		H
Lg. End	sm. End		Lg. End	sm. End		Lg. End	sm. End		Lg. End	sm. End	
20	10	38	90	32	102	250	100	178	250	100	178
	15	38		40	102		125	178		125	178
25	10	51		50	102		150	178		150	178
	15	51		65	102		200	178		200	178
	20	51		80	102	300	125	203	300	125	203
32	15	51	100	40	102		150	203		150	203
	20	51		50	102		200	203		200	203
	25	51		65	102		250	203		250	203
40	15	64		80	102	350	150	330	350	150	330
	20	64	125	50	127		200	330		200	330
	32	64		65	127		250	330		250	330
50	20	76		80	127	400	200	356	400	200	356
	25	76		90	127		250	356		250	356
	32	76	150	65	140		300	356		300	356
65	25	89		80	140	450	250	381	450	250	381
	32	89		90	140		300	381		300	381
	40	89		100	140		350	381		350	381
80	32	89	200	125	140		400	381		400	381
	40	89		90	152	500	300	508	500	300	508
	50	89		100	152		350	508		350	508
	65	89		150	152		400	508		400	508

STUB END

Stud Bend

Nom. Pipe Size Dia. Nom.	A	B	Nom. Pipe Size Dia. Nom.	F	G	Nom. Pipe Size Dia. Nom.	C	A	B	Nom. Pipe Size Dia. Nom.	O	K
50	152	64	15	76	35	40	25	57	89	25	102	67
80	229	95	20	76	43	50	32	76	108	32	127	84
100	305	127	25	51	51	65	38	95	127	40	152	100
150	457	190	32	102	73	80	38	133	171	65	254	164
200	610	254	40	102	73	90	38	133	178	-	-	-
250	762	318	50	152	92	100	38	152	190	-	-	-
300	914	381	65	203	105	125	38	190	229	-	-	-
350	1067	444	80	152	127	150	44	229	273	-	-	-
400	1219	505	90	152	140	200	51	267	349	-	-	-
450	1372	568	100	152	157	250	51	381	432	-	-	-
500	1524	632	125	203	189	300	57	457	521	61	61	50
550	1676	684	150	203	216	-	-	-	-	-	-	-
600	1829	757	200	203	270	-	-	-	-	-	-	-
650	1981	821	250	254	324	-	-	-	-	-	-	-
750	2286	946	300	254	381	-	-	-	-	-	-	-
850	2591	1073	350	305	413	-	-	-	-	-	-	-
900	2743	1137	400	305	470	-	-	-	-	-	-	-
1000	3048	1326	450	305	533	-	-	-	-	-	-	-
1200	3658	1518	500	305	584	-	-	-	-	-	-	-
-	-	-	550	305	641	-	-	-	-	-	-	-
-	-	-	600	305	692	-	-	-	-	-	-	-