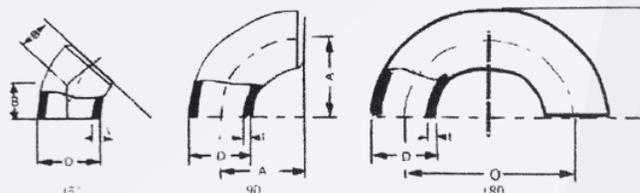


STEEL BUTTWELDING FITTINGS

DIMENSION OF WELDING FITTINGS



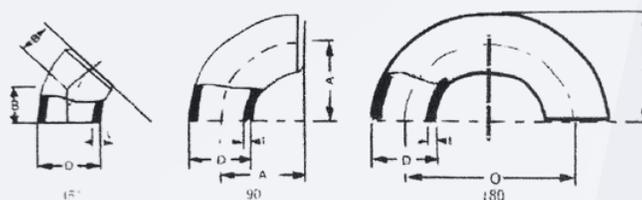
ANSI B36.10

in inches

Nominal Pipe Size	Outside Dia.	Nominal Wall Thickness					
		Std. Wall	Sch. 40	Extra Strong	Sch. 80	Sch. 160	XX. Strong
1/2	0.84	0.109	0.109	0.147	0.147	0.188	0.294
3/4	1.05	0.113	0.113	0.154	0.154	0.219	0.308
1	1.315	0.133	0.133	0.179	0.179	0.250	0.358
1-1/4	1.660	0.140	0.140	0.191	0.191	0.250	0.382
1-1/2	1.900	0.145	0.145	0.200	0.200	0.281	0.400
2	2.375	0.154	0.154	0.218	0.218	0.343	0.436
2-1/2	2.875	0.203	0.203	0.276	0.270	0.375	0.552
3	3.500	0.216	0.216	0.300	0.300	0.438	0.600
3-1/2	4.000	0.226	0.226	0.318	0.318	0.500	0.636
4	4.500	0.237	0.237	0.337	0.337	0.531	0.674
5	5.563	0.258	0.258	0.375	0.375	0.625	0.750
6	6.625	0.280	0.280	0.432	0.432	0.718	0.864
8	8.625	0.322	0.322	0.500	0.500	0.906	0.875
10	10.750	0.365	0.365	0.500	0.593	1.125	1.000
12	12.750	0.375	0.406	0.500	0.687	1.312	1.000
14	14.000	0.375	0.438	0.500	0.750	1.406	—
16	16.000	0.375	0.500	0.500	0.843	1.593	—
18	18.000	0.375	0.562	0.500	0.937	1.781	—
20	20.000	0.375	0.593	0.500	1.031	1.968	—
24	24.000	0.375	0.687	0.500	1.218	—	—

STEEL BUTTWELDING FITTINGS

DIMENSION OF WELDING FITTINGS



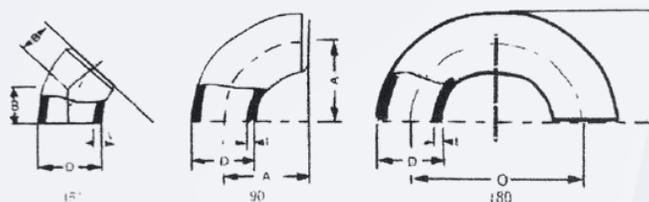
ANSI B36.10

in mm

Nominal Pipe Size	Outside Dia.	Nominal Wall Thickness					
		Std. Wall	Sch. 40	Extra Strong	Sch. 80	Sch. 160	XX. Strong
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	33.40	3.38	3.38	4.55	4.55	6.35	9.09
1-1/4	42.16	3.56	3.56	4.85	4.85	6.35	9.70
1-1/2	48.26	3.68	3.68	5.08	5.08	7.14	10.16
2	60.32	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	9.52	14.02
3	88.90	5.49	5.49	7.62	7.62	11.13	15.24
3-1/2	101.60	5.74	5.74	8.08	8.08	12.70	16.15
4	114.30	6.02	6.02	8.56	8.56	13.49	17.12
5	141.30	6.55	6.55	9.52	9.52	15.87	19.05
6	168.27	7.11	7.11	10.97	10.97	18.24	21.95
8	219.07	8.18	8.18	12.70	12.70	23.01	22.22
10	273.05	9.27	9.27	12.70	15.06	28.57	25.40
12	323.85	9.52	10.31	12.70	17.45	33.32	25.40
14	355.60	9.52	11.12	12.70	19.05	35.71	—
16	406.40	9.52	12.70	12.70	21.41	40.46	—
18	457.20	9.52	14.27	12.70	23.80	45.24	—
20	508.00	9.52	15.06	12.70	26.19	49.99	—
24	609.60	9.52	17.45	12.70	30.94	—	—

STEEL BUTTWELDING FITTINGS

WEIGHT

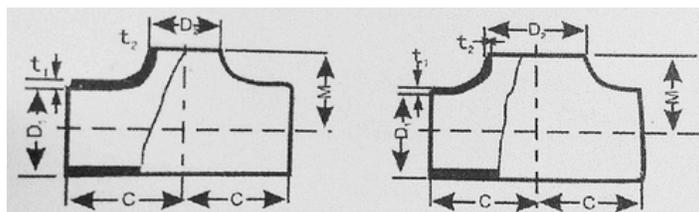


in kg

Nominal Pipe Size	Elbows (Long Radius)								
	STD			S40			S80		
	90°	STD 45°	STD 180°	S40 90°	S40 45°	S40 180°	S80 90°	S80 45°	S80 180°
1/2	0.076	0.038	0.152	0.076	0.038	0.152	0.097	0.048	0.194
3/4	0.075	0.036	0.150	0.075	0.036	0.150	0.098	0.047	0.196
1	0.150	0.106	0.300	0.150	0.106	0.300	0.194	0.137	0.388
1-1/4	0.254	0.163	0.508	0.254	0.163	0.508	0.335	0.215	0.670
1-1/2	0.364	0.218	0.728	0.364	0.218	0.728	0.486	0.292	0.972
2	0.651	0.361	1.30	0.651	0.361	1.30	0.895	0.497	1.79
2-1/2	1.29	0.728	2.58	1.29	0.728	2.58	1.71	0.961	3.42
3	2.03	1.09	4.06	2.03	1.09	4.06	2.74	1.47	5.48
3-1/2	2.84	1.47	5.68	2.84	1.47	5.68	3.90	2.02	7.80
4	3.85	1.94	7.70	3.85	1.94	7.70	5.34	2.69	10.7
5	6.51	3.27	13.0	6.51	3.27	13.0	9.26	4.65	18.5
6	10.1	5.10	20.2	10.1	5.10	20.2	15.3	7.69	30.6
8	20.4	10.2	40.8	20.4	10.2	40.8	30.9	15.6	61.8
10	36.1	18.1	72.2	36.1	18.1	72.2	57.3	28.8	114.
12	53.0	26.7	106.	57.2	28.8	107	94.7	47.6	189.
14	68.1	34.2	136.	79.1	39.8	158	132.	66.6	264.
16	89.2	44.9	178.	118.	59.4	236	195.	97.9	390.
18	113.	56.9	226.	168.	84.5	336	274.	138.	548.
20	140.	70.5	280.	219.	110.	438	372.	187.	744.
24	202.	102.	404.	36.6	184.	732	634.	319.	—

STEEL BUTTWELDING FITTINGS

WEIGHT



in kg

Nominal Pipe Size	Elbows (Short Radius)			Tees		Reducers		Caps	
	STD	S40	S80	STD	XS	STD	XS	STD	XS
	90°	90°	90°						
1/2	-	-	-	0.085	0.107	-	-	0.036	0.044
3/4	-	-	-	0.125	0.162	0.059	0.075	0.049	0.062
1	0.100	0.100	0.129	0.250	0.318	0.116	0.147	0.109	0.144
1-1/4	0.169	0.169	0.223	0.421	0.554	0.157	0.206	0.145	0.197
1-1/2	0.242	0.242	0.324	0.603	0.805	0.243	0.324	0.171	0.236
2	0.434	0.434	0.597	0.872	1.19	0.372	0.508	0.234	0.330
2-1/2	0.861	0.864	1.14	1.74	2.28	0.723	0.945	0.420	0.565
3	1.35	1.35	1.83	2.41	3.25	0.933	1.25	0.664	0.917
3-1/2	1.89	1.87	2.60	3.17	4.39	1.28	1.77	0.958	1.36
4	2.57	2.57	3.56	4.12	5.76	1.53	2.14	1.17	1.68
5	4.34	4.85	6.17	6.53	9.20	2.50	3.51	1.90	2.73
6	6.77	6.77	10.2	9.58	14.5	3.57	5.38	2.83	4.38
8	13.6	14.5	20.6	17.9	27.1	5.70	8.61	5.11	7.91
10	24.1	25.4	38.2	30.4	41.0	9.58	12.9	8.92	12.2
12	35.3	38.2	63.1	43.6	57.7	13.6	18.0	13.0	17.4
14	45.4	52.8	88.3	53.5	70.9	25.4	33.6	15.9	21.2
16	59.5	78.7	130.	66.1	87.7	31.0	41.1	20.0	26.7
18	75.5	112.	183.	83.9	111.	37.8	50.1	25.5	34.1
20	93.4	146.	248.	104.	138.	56.4	74.9	31.8	42.5
24	135.	244.	423	139.	185	65.7	87.1	44.5	60.1