

## Approximate Weights of Buttwelding Fittings - LR 90 Elbows

NPS	DIN S3 3D	DIN S3 5D	SGP/LG	Sch5/5s	Sch10s	Sch40s	Sch80s	Sch10	Sch20	Sch30
1/2	0.04	0.07	0.08	0.06	0.06	0.08	0.10	0.06	-	0.06
3/4	0.07	0.13	0.10	0.07	0.07	0.11	0.14	0.07	-	0.07
1	0.12	0.23	0.15	0.08	0.14	0.16	0.19	0.14	-	0.14
1 1/4	0.19	0.37	0.26	0.12	0.19	0.25	0.35	0.19	-	0.21
1 1/2	0.26	0.50	0.35	0.17	0.27	0.37	0.49	0.27	-	0.31
2	0.49	0.87	0.64	0.29	0.47	0.66	0.87	0.47	-	0.54
2 1/2	0.78	1.44	1.12	0.54	0.78	1.32	1.77	0.78	-	1.22
3	1.22	2.18	1.58	0.80	1.13	2.02	2.81	1.13	-	1.75
3 1/2	-	-	2.11	1.05	1.49	2.91	3.96	1.49	-	2.43
4	2.36	4.17	2.91	1.36	1.94	3.88	5.45	1.94	-	3.07
5	4.01	6.94	4.49	2.75	3.36	6.62	9.68	3.36	-	-
6	6.53	11.1	7.09	3.94	4.81	10.6	15.9	4.81	-	-
8	15.8	26.5	14.4	6.87	9.27	20.3	31.7	9.27	15.9	17.6
10	24.8	42.3	25.4	13.1	16.1	37.0	49.3	16.1	24.7	30.8
12	39.8	67.5	38.1	21.7	25.0	53.7	71.3	25.0	36.1	47.6
14	57.5	91.6	56.7	27.9	33.6	69.6	91.6	46.7	58.1	69.6
16	82.6	132	74.3	38.6	43.9	91.6	121	60.8	75.7	91.6
18	119	194	94.2	48.9	55.7	116	153	77.5	96.9	136
20	161	264	116	68.9	79.6	143	188	96.0	143	188
22	-	-	141	83.3	96.5	173	229	115	173	229
24	265	434	168	114	132	206	274	138	206	309
26	-	-	198	-	-	-	-	-	322	-
28	365	-	230	-	-	-	-	-	369	-
30	-	-	264	-	-	-	-	270	423	536
32	461	-	301	-	-	-	-	-	466	-
34	-	-	340	-	-	-	-	-	528	-
36	585	-	380	-	-	-	-	-	590	-
38	-	-	425	-	-	-	-	-	-	-
40	726	-	471	-	-	-	-	-	-	-
42	-	-	518	-	-	-	-	-	-	-
44	-	-	570	-	-	-	-	-	-	-
46	-	-	623	-	-	-	-	-	-	-
48	1048	-	677	-	-	-	-	-	-	-

NPS	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
1/2	0.08	0.08	-	0.10	0.10	-	-	-	-	-
3/4	0.11	0.11	-	0.14	0.14	-	-	-	-	-
1	0.16	0.16	-	0.19	0.19	-	-	-	0.25	0.33
1 1/4	0.25	0.25	-	0.35	0.35	-	-	-	0.43	0.58
1 1/2	0.37	0.37	-	0.49	0.49	-	-	-	0.66	0.87
2	0.66	0.66	-	0.87	0.87	-	-	-	1.32	1.67
2 1/2	1.32	1.32	-	1.77	1.77	-	-	-	2.29	3.08
3	2.02	2.02	-	2.81	2.81	-	-	-	3.88	5.02
3 1/2	2.91	2.91	-	3.96	3.96	-	-	-	-	7.22
4	3.88	3.88	-	5.45	5.45	-	6.87	-	8.19	9.68
5	6.62	6.62	-	9.68	9.68	-	12.3	-	15.0	17.6
6	10.6	10.6	-	15.9	15.9	-	19.4	-	24.7	29.1
8	20.3	20.3	25.6	31.7	31.7	37.0	44.0	48.4	53.7	52.9
10	37.0	37.0	49.3	49.3	58.1	69.6	81.0	94.3	105	101
12	53.7	58.1	80.1	71.3	96.9	117	137	153	175	142
14	69.6	71.3	108	91.6	136	163	182	212	240	-
16	91.6	121	157	121	198	238	278	329	357	-
18	116	172	225	153	279	337	380	438	484	-
20	143	223	302	188	380	453	532	618	678	-
22	173	-	430	229	500	-	-	-	-	-
24	206	373	518	274	647	771	877	1008	1119	-
26	242	-	-	322	-	-	-	-	-	-
28	275	-	-	369	-	-	-	-	-	-
30	324	-	-	423	-	-	-	-	-	-
32	349	634	-	466	-	-	-	-	-	-
34	396	716	-	528	-	-	-	-	-	-
36	442	877	-	590	-	-	-	-	-	-
38	495	-	-	658	-	-	-	-	-	-
40	547	-	-	729	-	-	-	-	-	-
42	603	-	-	803	-	-	-	-	-	-
44	663	-	-	885	-	-	-	-	-	-
46	726	-	-	966	-	-	-	-	-	-
48	790	-	-	1051	-	-	-	-	-	-

### Approximate Weights of Buttwelding Fittings - LR 45 Elbows

NPS	DIN S3 3D	DIN S3 5D	SGP/LG	Sch5/5s	Sch10s	Sch40s	Sch80s	Sch10	Sch20	Sch30
1/2	0.02	0.04	0.04	0.03	0.03	0.04	0.05	0.03	-	0.03
2/3	0.04	0.07	0.05	0.04	0.04	0.06	0.07	0.04	-	0.04
1	0.06	0.12	0.08	0.04	0.07	0.08	0.10	0.07	-	0.07
1 1/4	0.10	0.19	0.13	0.06	0.10	0.13	0.18	0.10	-	0.11
1 1/2	0.13	0.25	0.18	0.09	0.14	0.19	0.25	0.14	-	0.16
2	0.25	0.44	0.32	0.15	0.24	0.34	0.45	0.24	-	0.28
2 1/2	0.39	0.72	0.60	0.28	0.40	0.68	0.91	0.40	-	0.63
3	0.61	1.09	0.79	0.41	0.58	1.04	1.45	0.58	-	0.90
3 1/2	-	-	1.06	0.54	0.77	1.50	2.04	0.77	-	1.25
4	1.18	2.09	1.46	0.70	1.00	2.00	2.81	1.00	-	1.58
5	2.01	3.47	2.25	1.42	1.73	3.41	4.99	1.73	-	-
6	3.27	5.55	3.55	2.03	2.48	5.45	8.17	2.48	-	-
8	7.90	13.3	7.20	3.54	4.78	10.4	16.3	4.78	8.17	9.08
10	12.4	21.2	12.7	6.75	8.30	19.1	25.4	8.30	12.7	15.9
12	19.9	33.8	19.0	11.2	12.9	27.7	36.8	12.9	18.6	24.5
14	28.8	45.8	28.4	14.4	17.3	35.9	47.2	24.1	30.0	35.9
16	41.3	66.0	37.2	19.9	22.7	47.2	62.2	31.3	39.0	47.2
18	59.5	97.0	47.1	25.2	28.7	59.9	79.0	40.0	49.9	69.9
20	80.5	132	58.3	35.5	41.1	73.6	97.2	49.5	73.6	97.2
22	-	-	70.5	43.0	49.8	89.0	118	59.5	89.0	118
24	133	217	84.1	59.0	68.0	106	141	71.3	106	159
26	-	-	99.0	-	-	-	-	-	166	-
28	183	-	115	-	-	-	-	-	190	-
30	-	-	132	-	-	-	-	139	218	276
32	231	-	150	-	-	-	-	-	240	-
34	-	-	170	-	-	-	-	-	272	-
36	293	-	190	-	-	-	-	-	304	-
38	-	-	212	-	-	-	-	-	-	-
40	363	-	235	-	-	-	-	-	-	-
42	-	-	259	-	-	-	-	-	-	-
44	-	-	285	-	-	-	-	-	-	-
46	-	-	312	-	-	-	-	-	-	-
48	524	-	339	-	-	-	-	-	-	-

NPS	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
1/2	0.04	0.04	-	0.05	0.05	-	-	-	-	-
3/4	0.06	0.06	-	0.07	0.07	-	-	-	-	-
1	0.08	0.08	-	0.10	0.10	-	-	-	0.13	0.17
1 1/4	0.13	0.13	-	0.18	0.18	-	-	-	0.22	0.30
1 1/2	0.19	0.19	-	0.25	0.25	-	-	-	0.34	0.45
2	0.34	0.34	-	0.45	0.45	-	-	-	0.68	0.86
2 1/2	0.68	0.68	-	0.91	0.91	-	-	-	1.18	1.59
3	1.04	1.04	-	1.45	1.45	-	-	-	2.00	2.59
3 1/2	1.50	1.50	-	2.04	2.04	-	-	-	-	3.72
4	2.00	2.00	-	2.81	2.81	-	3.54	-	4.22	4.99
5	3.41	3.41	-	4.99	4.99	-	6.36	-	7.72	9.08
6	5.45	5.45	-	8.17	8.17	-	9.99	-	12.7	15.0
8	10.4	10.4	13.2	16.3	16.3	19.1	22.7	25.0	27.7	27.2
10	19.1	19.1	25.4	25.4	30.0	35.9	41.8	48.6	54.0	52.2
12	27.7	30.0	41.3	36.8	49.9	60.4	70.8	79.0	90.4	73.1
14	35.9	36.8	55.8	47.2	69.9	84.0	94.0	109	124	-
16	47.2	62.2	80.8	62.2	102	123	143	169	184	-
18	59.9	88.5	116	79.0	144	174	196	226	250	-
20	73.6	115	156	97.2	196	233	274	319	350	-
22	89.0	-	222	118	258	-	-	-	-	-
24	106	192	267	141	334	397	452	520	577	-
26	125	-	-	166	-	-	-	-	-	-
28	142	-	-	190	-	-	-	-	-	-
30	167	-	-	218	-	-	-	-	-	-
32	180	327	-	240	-	-	-	-	-	-
34	204	369	-	272	-	-	-	-	-	-
36	228	452	-	304	-	-	-	-	-	-
38	255	-	-	339	-	-	-	-	-	-
40	282	-	-	376	-	-	-	-	-	-
42	311	-	-	414	-	-	-	-	-	-
44	342	-	-	456	-	-	-	-	-	-
46	374	-	-	498	-	-	-	-	-	-
48	407	-	-	542	-	-	-	-	-	-

### Approximate Weights of Butt Welding Fittings - LR 180 Returns

NPS	DIN S3 3D	DIN S3 5D	SGP/LG	Sch5/5s	Sch10s	Sch40s	Sch80s	Sch10	Sch20	Sch30
1/2	0.08	0.14	0.16	0.12	0.12	0.16	0.21	0.12	-	0.12
3/4	0.14	0.27	0.21	0.14	0.14	0.23	0.29	0.14	-	0.14
1	0.25	0.47	0.31	0.16	0.29	0.33	0.39	0.29	-	0.29
1 1/4	0.39	0.76	0.54	0.25	0.39	0.52	0.72	0.39	-	0.43
1 1/2	0.54	1.03	0.72	0.35	0.56	0.76	1.01	0.56	-	0.64
2	1.01	1.79	1.32	0.60	0.97	1.36	1.79	0.97	-	1.11
2 1/2	1.61	2.97	2.31	1.11	1.61	2.72	3.65	1.61	-	2.51
3	2.51	4.49	3.25	1.65	2.33	4.16	5.79	2.33	-	3.61
3 1/2	-	-	4.35	2.16	3.07	5.99	8.16	3.07	-	5.01
4	4.86	8.59	5.99	2.80	4.00	7.99	11.2	4.00	-	6.32
5	8.26	14.3	9.25	5.67	6.92	13.6	19.9	6.92	-	-
6	13.5	22.9	14.6	8.12	9.91	21.8	32.7	9.91	-	-
8	32.6	54.6	29.7	14.2	19.1	41.7	65.3	19.1	32.7	36.3
10	51.1	87.1	52.3	27.0	33.2	76.2	102	33.2	50.8	63.5
12	82.0	139	78.5	44.8	51.6	111	147	51.6	74.4	98.0
14	118	189	117	57.6	69.1	143	189	96.2	120	143
16	170	272	153	79.5	90.5	189	249	125	156	189
18	245	400	194	101	115	240	316	160	200	279
20	332	544	239	142	164	294	388	198	294	388
22	-	-	290	172	199	356	472	238	356	472
24	546	894	346	236	272	425	564	285	425	637
26	-	-	408	-	-	-	-	-	663	-
28	752	-	474	-	-	-	-	-	759	-
30	-	-	544	-	-	-	-	555	871	1103
32	950	-	620	-	-	-	-	-	959	-
34	-	-	700	-	-	-	-	-	1087	-
36	1205	-	783	-	-	-	-	-	1215	-
38	-	-	876	-	-	-	-	-	-	-
40	1496	-	970	-	-	-	-	-	-	-
42	-	-	1067	-	-	-	-	-	-	-
44	-	-	1174	-	-	-	-	-	-	-
46	-	-	1283	-	-	-	-	-	-	-
48	2159	-	1395	-	-	-	-	-	-	-

NPS	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
1/2	0.16	0.16	-	0.21	0.21	-	-	-	-	-
3/4	0.23	0.23	-	0.29	0.29	-	-	-	-	-
1	0.33	0.33	-	0.39	0.39	-	-	-	0.52	0.68
1 1/4	0.52	0.52	-	0.72	0.72	-	-	-	0.89	1.19
1 1/2	0.76	0.76	-	1.01	1.01	-	-	-	1.36	1.79
2	1.36	1.36	-	1.79	1.79	-	-	-	2.72	3.44
2 1/2	2.72	2.72	-	3.65	3.65	-	-	-	4.72	6.34
3	4.16	4.16	-	5.79	5.79	-	-	-	7.99	10.3
3 1/2	5.99	5.99	-	8.16	8.16	-	-	-	-	14.9
4	7.99	7.99	-	11.2	11.2	-	14.2	-	16.9	19.9
5	13.6	13.6	-	19.9	19.9	-	25.4	-	30.9	36.3
6	21.8	21.8	-	32.7	32.7	-	39.9	-	50.8	59.9
8	41.7	41.7	52.6	65.3	65.3	76.2	90.7	99.8	111	109
10	76.2	76.2	102	102	120	143	167	194	216	209
12	111	120	165	147	200	241	283	316	361	292
14	143	147	223	189	279	336	376	437	495	-
16	189	249	323	249	408	490	573	677	735	-
18	240	354	463	316	575	695	782	902	998	-
20	294	459	622	388	782	933	1096	1274	1397	-
22	356	-	886	472	1030	-	-	-	-	-
24	425	767	1067	564	1334	1588	1807	2077	2304	-
26	499	-	-	663	-	-	-	-	-	-
28	567	-	-	759	-	-	-	-	-	-
30	667	-	-	871	-	-	-	-	-	-
32	719	1307	-	959	-	-	-	-	-	-
34	815	1475	-	1087	-	-	-	-	-	-
36	911	1806	-	1215	-	-	-	-	-	-
38	1019	-	-	1355	-	-	-	-	-	-
40	1127	-	-	1503	-	-	-	-	-	-
42	1243	-	-	1655	-	-	-	-	-	-
44	1367	-	-	1822	-	-	-	-	-	-
46	1495	-	-	1990	-	-	-	-	-	-
48	1627	-	-	2166	-	-	-	-	-	-

### Approximate Weights of Buttwelding Fittings - SR 90 Elbows

NPS	SGP/LG	Sch5/5s	Sch10s	Sch40s	Sch80s	Sch10	Sch20	Sch30	STD
1/2	-	0.04	0.04	0.05	0.07	0.04	-	0.04	0.05
3/4	-	0.05	0.05	0.07	0.09	0.05	-	0.05	0.07
1	0.10	0.05	0.09	0.11	0.13	0.09	-	0.09	0.11
1¼	0.17	0.08	0.13	0.17	0.23	0.13	-	0.14	0.17
1½	0.24	0.11	0.18	0.25	0.33	0.18	-	0.21	0.25
2	0.43	0.19	0.31	0.44	0.58	0.31	-	0.36	0.44
2½	0.75	0.36	0.52	0.88	1.18	0.52	-	0.81	0.88
3	1.05	0.53	0.75	1.35	1.87	0.75	-	1.17	1.35
3½	1.41	0.70	0.99	1.94	2.64	0.99	-	1.62	1.94
4	1.94	0.91	1.29	2.59	3.63	1.29	-	2.05	2.59
5	2.99	1.83	2.24	4.41	6.45	2.24	-	-	4.41
6	4.73	2.63	3.21	7.05	10.6	3.21	-	-	7.05
8	9.61	4.58	6.18	13.5	21.1	6.18	10.6	11.8	13.5
10	16.9	8.73	10.7	24.7	32.9	10.7	16.4	20.6	24.7
12	25.4	14.5	16.7	35.8	47.6	16.7	24.1	31.7	35.8
14	37.8	18.6	22.4	46.4	61.1	31.1	38.8	46.4	46.4
16	49.5	25.7	29.3	61.1	80.5	40.5	50.5	61.1	61.1
18	62.8	32.6	37.1	77.5	102	51.7	64.6	90.4	77.5
20	77.7	45.9	53.1	95.1	126	64.0	95.1	126	95.1
22	94.1	55.6	64.4	115	153	76.9	115	153	115
24	112	76.3	88.0	137	183	92.2	137	206	137
26	132	-	-	-	-	-	215	-	161
28	154	-	-	-	-	-	246	-	184
30	176	-	-	-	-	180	282	357	216
32	201	-	-	-	-	-	310	-	233
34	227	-	-	-	-	-	352	-	264
36	253	-	-	-	-	-	393	-	295
38	283	-	-	-	-	-	-	-	330
40	314	-	-	-	-	-	-	-	365
42	346	-	-	-	-	-	-	-	402
44	380	-	-	-	-	-	-	-	442
46	415	-	-	-	-	-	-	-	484
48	452	-	-	-	-	-	-	-	526

NPS	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
1/2	0.05	-	0.07	0.07	-	-	-	-	-
3/4	0.07	-	0.09	0.09	-	-	-	-	-
1	0.11	-	0.13	0.13	-	-	-	0.17	0.22
1¼	0.17	-	0.23	0.23	-	-	-	0.29	0.39
1½	0.25	-	0.33	0.33	-	-	-	0.44	0.58
2	0.44	-	0.58	0.58	-	-	-	0.88	1.11
2½	0.88	-	1.18	1.18	-	-	-	1.53	2.05
3	1.35	-	1.87	1.87	-	-	-	2.59	3.35
3½	1.94	-	2.64	2.64	-	-	-	-	4.81
4	2.59	-	3.63	3.63	-	4.58	-	5.46	6.45
5	4.41	-	6.45	6.45	-	8.23	-	9.99	11.8
6	7.05	-	10.6	10.6	-	12.9	-	16.4	19.4
8	13.5	17.0	21.1	21.1	24.7	29.4	32.3	35.8	35.2
10	24.7	32.9	32.9	38.8	46.4	54.0	62.8	69.9	67.5
12	38.8	53.4	47.6	64.6	78.1	91.6	102	117	94.5
14	47.6	72.2	61.1	90.4	109	122	142	160	-
16	80.5	105	80.5	132	159	186	219	238	-
18	115	150	102	186	225	253	292	323	-
20	149	201	126	253	302	355	412	452	-
22	-	287	153	333	-	-	-	-	-
24	248	345	183	432	514	585	672	746	-
26	-	-	215	-	-	-	-	-	-
28	-	-	246	-	-	-	-	-	-
30	-	-	282	-	-	-	-	-	-
32	423	-	310	-	-	-	-	-	-
34	477	-	352	-	-	-	-	-	-
36	585	-	393	-	-	-	-	-	-
38	-	-	438	-	-	-	-	-	-
40	-	-	486	-	-	-	-	-	-
42	-	-	535	-	-	-	-	-	-
44	-	-	590	-	-	-	-	-	-
46	-	-	644	-	-	-	-	-	-
48	-	-	701	-	-	-	-	-	-

### Approximate Weights of Buttwelding Fittings - SR 45 Elbows

NPS	SGP/LG	Sch5/5s	Sch10s	Sch40s	Sch80s	Sch10	Sch20	Sch30	STD
1/2	-	0.02	0.02	0.03	0.03	0.02	-	0.02	0.03
3/4	-	0.03	0.03	0.04	0.05	0.03	-	0.03	0.04
1	0.05	0.03	0.05	0.05	0.07	0.05	-	0.05	0.05
1 1/4	0.09	0.04	0.07	0.09	0.12	0.07	-	0.07	0.09
1 1/2	0.12	0.06	0.09	0.13	0.17	0.09	-	0.11	0.13
2	0.22	0.10	0.16	0.23	0.30	0.16	-	0.19	0.23
2 1/4	0.38	0.19	0.27	0.45	0.61	0.27	-	0.42	0.45
3	0.53	0.27	0.39	0.69	0.97	0.39	-	0.60	0.69
3 1/4	0.71	0.36	0.51	1.00	1.36	0.51	-	0.83	1.00
4	0.97	0.47	0.67	1.33	1.87	0.67	-	1.05	1.33
5	1.50	0.95	1.15	2.27	3.33	1.15	-	-	2.27
6	2.37	1.35	1.65	3.63	5.45	1.65	-	-	3.63
8	4.81	2.36	3.19	6.96	10.9	3.19	5.45	6.05	6.96
10	8.45	4.50	5.53	12.7	17.0	5.53	8.47	10.6	12.7
12	12.7	7.47	8.60	18.5	24.5	8.60	12.4	16.4	18.5
14	18.9	9.60	11.5	23.9	31.5	16.0	20.0	23.9	23.9
16	24.8	13.3	15.1	31.5	41.5	20.9	26.0	31.5	31.5
18	31.4	16.8	19.1	40.0	52.7	26.6	33.3	46.6	40.0
20	38.9	23.7	27.4	49.0	64.8	33.0	49.0	64.8	49.0
22	47.1	28.6	33.2	59.3	78.7	39.7	59.3	78.7	59.3
24	56.0	39.3	45.3	70.8	94.1	47.5	70.8	106	71
26	66.0	-	-	-	-	-	111	-	83
28	77.0	-	-	-	-	-	127	-	95
30	88.0	-	-	-	-	92.6	145	184	111
32	101	-	-	-	-	-	160	-	120
34	114	-	-	-	-	-	181	-	136
36	127	-	-	-	-	-	203	-	152
38	142	-	-	-	-	-	-	-	170
40	157	-	-	-	-	-	-	-	188
42	173	-	-	-	-	-	-	-	207
44	190	-	-	-	-	-	-	-	228
46	208	-	-	-	-	-	-	-	249
48	226	-	-	-	-	-	-	-	271

NPS	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
1/2	0.03	-	0.03	0.03	-	-	-	-	-
3/4	0.04	-	0.05	0.05	-	-	-	-	-
1	0.05	-	0.07	0.07	-	-	-	0.09	0.11
1 1/4	0.09	-	0.12	0.12	-	-	-	0.15	0.20
1 1/2	0.13	-	0.17	0.17	-	-	-	0.23	0.30
2	0.23	-	0.30	0.30	-	-	-	0.45	0.57
2 1/2	0.45	-	0.61	0.61	-	-	-	0.79	1.06
3	0.69	-	0.97	0.97	-	-	-	1.33	1.73
3 1/2	1.00	-	1.36	1.36	-	-	-	-	2.48
4	1.33	-	1.87	1.87	-	2.36	-	2.81	3.33
5	2.27	-	3.33	3.33	-	4.24	-	5.15	6.05
6	3.63	-	5.45	5.45	-	6.66	-	8.47	10.0
8	6.96	8.78	10.9	10.9	12.7	15.1	16.7	18.5	18.2
10	12.7	17.0	17.0	20.0	23.9	27.9	32.4	36.0	34.8
12	20.0	27.5	24.5	33.3	40.3	47.2	52.7	60.2	48.7
14	24.5	37.2	31.5	46.6	56.0	62.7	72.9	82.6	-
16	41.5	53.9	41.5	68.1	81.7	95.6	113	123	-
18	59.0	77.2	52.7	96.0	116	130	150	166	-
20	76.6	104	64.8	130	156	183	212	233	-
22	-	148	78.7	172	-	-	-	-	-
24	128	178	94.1	222	265	301	347	384	-
26	-	-	111	-	-	-	-	-	-
28	-	-	127	-	-	-	-	-	-
30	-	-	145	-	-	-	-	-	-
32	218	-	160	-	-	-	-	-	-
34	246	-	181	-	-	-	-	-	-
36	301	-	203	-	-	-	-	-	-
38	-	-	226	-	-	-	-	-	-
40	-	-	251	-	-	-	-	-	-
42	-	-	276	-	-	-	-	-	-
44	-	-	304	-	-	-	-	-	-
46	-	-	332	-	-	-	-	-	-
48	-	-	361	-	-	-	-	-	-

## Approximate Weights of Butt Welding Fittings - SR 180 Returns

NPS	SGP/LG	Sch5/5s	Sch10s	Sch40s	Sch80s	Sch10	Sch20	Sch30	STD
1/2	-	0.08	0.08	0.11	0.14	0.08	-	0.08	0.11
3/4	-	0.09	0.09	0.15	0.19	0.09	-	0.09	0.15
1	0.21	0.11	0.19	0.22	0.26	0.19	-	0.19	0.22
1 1/4	0.35	0.17	0.26	0.35	0.48	0.26	-	0.29	0.35
1 1/2	0.49	0.23	0.37	0.51	0.67	0.37	-	0.43	0.51
2	0.89	0.40	0.65	0.91	1.19	0.65	-	0.74	0.91
2 1/2	1.55	0.74	1.07	1.81	2.43	1.07	-	1.67	1.81
3	2.16	1.10	1.55	2.77	3.86	1.55	-	2.41	2.77
3 1/2	2.90	1.44	2.05	3.99	5.44	2.05	-	3.34	3.99
4	4.00	1.87	2.67	5.33	7.49	2.67	-	4.21	5.33
5	6.16	3.78	4.61	9.09	13.3	4.61	-	-	9.09
6	9.74	5.41	6.61	14.5	21.8	6.61	-	-	14.5
8	19.8	9.43	12.7	27.8	43.5	12.7	21.8	24.2	27.8
10	34.8	18.0	22.1	50.8	67.7	22.1	33.9	42.3	50.8
12	52.3	29.8	34.4	73.8	98.0	34.4	49.6	65.3	73.8
14	77.9	38.4	46.1	95.6	126	64.1	79.8	95.6	95.6
16	102	53.0	60.4	126	166	83.5	104	126	126
18	129	67.1	76.5	160	210	106	133	186	160
20	160	94.6	109	196	259	132	196	259	196
22	194	114	133	237	314	158	237	314	237
24	231	157	181	283	376	190	283	425	283
26	272	-	-	-	-	-	442	-	333
28	317	-	-	-	-	-	506	-	378
30	363	-	-	-	-	370	581	735	445
32	414	-	-	-	-	-	639	-	480
34	468	-	-	-	-	-	725	-	544
36	521	-	-	-	-	-	810	-	607
38	583	-	-	-	-	-	-	-	679
40	647	-	-	-	-	-	-	-	751
42	713	-	-	-	-	-	-	-	829
44	783	-	-	-	-	-	-	-	911
46	855	-	-	-	-	-	-	-	996
48	931	-	-	-	-	-	-	-	1084

NPS	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
1/2	0.11	-	0.14	0.14	-	-	-	-	-
3/4	0.15	-	0.19	0.19	-	-	-	-	-
1	0.22	-	0.26	0.26	-	-	-	0.35	0.45
1 1/4	0.35	-	0.48	0.48	-	-	-	0.59	0.79
1 1/2	0.51	-	0.67	0.67	-	-	-	0.91	1.19
2	0.91	-	1.19	1.19	-	-	-	1.81	2.29
2 1/2	1.81	-	2.43	2.43	-	-	-	3.15	4.23
3	2.77	-	3.86	3.86	-	-	-	5.33	6.89
3 1/2	3.99	-	5.44	5.44	-	-	-	-	9.91
4	5.33	-	7.49	7.49	-	9.43	-	11.3	13.3
5	9.09	-	13.3	13.3	-	17.0	-	20.6	24.2
6	14.5	-	21.8	21.8	-	26.6	-	33.9	39.9
8	27.8	35.1	43.5	43.5	50.8	60.5	66.5	73.8	72.6
10	50.8	67.7	67.7	79.8	95.6	111	129	144	139
12	79.8	110	98.0	133	161	189	210	241	195
14	98.0	149	126	186	224	250	292	330	-
16	166	215	166	272	327	382	451	490	-
18	236	308	210	383	463	521	601	665	-
20	306	415	259	521	622	731	849	931	-
22	-	591	314	687	-	-	-	-	-
24	512	711	376	889	1058	1205	1385	1536	-
26	-	-	442	-	-	-	-	-	-
28	-	-	506	-	-	-	-	-	-
30	-	-	581	-	-	-	-	-	-
32	871	-	639	-	-	-	-	-	-
34	983	-	725	-	-	-	-	-	-
36	1204	-	810	-	-	-	-	-	-
38	-	-	903	-	-	-	-	-	-
40	-	-	1002	-	-	-	-	-	-
42	-	-	1103	-	-	-	-	-	-
44	-	-	1215	-	-	-	-	-	-
46	-	-	1327	-	-	-	-	-	-
48	-	-	1444	-	-	-	-	-	-

## Approximate Weights of Buttwelding Fittings - Straight Tees

NPS	DIN S3	SGP/LG	Sch5s	Sch10s	Sch40s	Sch80s	Sch5	Sch10	Sch20	Sch30
1/2	0.09	0.09	0.11	0.13	0.16	0.22	0.11	0.13	-	0.14
3/4	0.15	0.13	0.13	0.16	0.20	0.27	0.13	0.16	-	0.17
1	0.29	0.24	0.18	0.31	0.34	0.46	0.18	0.31	-	0.29
1 1/4	0.42	0.42	0.30	0.51	0.59	0.80	0.30	0.51	-	0.49
1 1/2	0.60	0.58	0.45	0.76	0.91	1.26	0.45	0.76	-	0.78
2	0.83	0.86	0.73	1.24	1.59	2.26	0.73	1.24	-	1.29
2 1/2	1.25	1.42	1.22	1.77	2.72	3.70	1.22	1.77	-	2.53
3	1.85	1.87	1.34	1.94	3.18	4.42	1.34	1.94	-	2.77
3 1/2	-	2.37	1.64	2.37	4.09	5.77	1.64	2.37	-	3.39
4	3.10	3.13	2.13	3.05	5.45	7.74	2.13	3.05	-	4.31
5	4.80	4.53	4.48	5.43	9.53	13.8	4.48	5.43	-	-
6	7.00	6.84	6.64	8.18	15.4	23.8	6.64	8.18	-	-
8	14.9	12.8	9.24	12.7	25.0	38.7	9.24	12.7	21.2	23.7
10	22.0	21.8	15.4	19.3	38.6	52.9	15.4	19.3	28.9	35.9
12	35.0	32.0	25.1	28.9	54.5	72.5	25.1	28.9	39.8	52.8
14	60.0	44.7	34.5	41.2	74.9	99.6	34.5	54.7	68.2	74.9
16	82.0	55.2	42.5	48.7	88.5	117.7	42.5	64.6	80.6	88.5
18	131	70.0	54.3	62.2	113	150	54.3	83.0	103	132
20	160	86.6	85.4	99.4	155	207	85.4	113	155	207
22	-	106	103	120	188	250	103	137	188	250
24	242	116	153	175	240	319	153	175	240	360
26	-	147	-	-	-	-	-	290	465	-
28	394	165	-	-	-	-	-	330	529	665
30	-	190	351	438	481	640	351	399	640	804
32	517	217	-	-	-	-	-	434	695	873
34	-	246	-	-	-	-	-	491	786	987
36	670	276	-	-	-	-	-	561	900	1130
38	-	308	-	-	-	-	-	-	-	-
40	1018	342	-	-	-	-	-	-	-	-
42	-	352	-	-	-	-	-	-	-	-
44	-	396	-	-	-	-	-	-	-	-
46	-	434	-	-	-	-	-	-	-	-
48	1445	474	-	-	-	-	-	-	-	-

NPS	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
1/2	0.16	0.16	-	0.22	0.22	-	-	-	0.28	0.40
3/4	0.20	0.20	-	0.27	0.27	-	-	-	0.39	0.51
1	0.34	0.34	-	0.46	0.46	-	-	-	0.64	0.85
1 1/4	0.59	0.59	-	0.80	0.80	-	-	-	1.05	1.49
1 1/2	0.91	0.91	-	1.26	1.26	-	-	-	1.77	2.34
2	1.59	1.59	-	2.26	2.26	-	-	-	3.31	4.18
2 1/2	2.72	2.72	-	3.70	3.70	-	-	-	5.03	6.88
3	3.18	3.18	-	4.42	4.42	-	-	-	6.01	8.20
3 1/2	4.09	4.09	-	5.77	5.77	-	-	-	-	-
4	5.45	5.45	-	7.74	7.74	-	10.1	-	11.3	14.4
5	9.53	9.53	-	13.8	13.8	-	18.5	-	21.4	25.7
6	15.4	15.4	-	23.8	23.8	-	28.9	-	36.9	44.3
8	25.0	25.0	31.5	38.7	38.7	45.9	51.9	58.4	65.4	63.2
10	38.6	38.6	52.9	52.9	62.9	76.0	83.0	98.4	107	98.4
12	54.5	58.8	81.7	72.5	99.7	114	135	147	172	135
14	74.9	87.6	118	99.6	139	175	203	225	252	-
16	88.5	118	155	118	185	227	259	305	338	-
18	113	170	210	150	263	313	373	424	483	-
20	155	245	312	207	397	477	559	652	733	-
22	188	-	408	250	524	620	733	846	959	-
24	240	439	575	319	724	880	1043	1187	1347	-
26	350	-	-	465	-	-	-	-	-	-
28	398	-	-	529	-	-	-	-	-	-
30	481	-	-	640	-	-	-	-	-	-
32	523	956	-	695	-	-	-	-	-	-
34	591	1082	-	786	-	-	-	-	-	-
36	676	1353	-	900	-	-	-	-	-	-
38	926	-	-	1232	-	-	-	-	-	-
40	1028	-	-	1367	-	-	-	-	-	-
42	1317	-	-	1752	-	-	-	-	-	-
44	1357	-	-	1805	-	-	-	-	-	-
46	1410	-	-	1875	-	-	-	-	-	-
48	1460	-	-	1942	-	-	-	-	-	-

## Approximate Weights of Buttwelding Fittings - Caps

NPS	DIN S3	SGP/LG	Sch5s	Sch10s	Sch40s	Sch80s	Sch5	Sch10	Sch20	Sch30
1/2	0.06	0.03	0.02	0.03	0.03	0.05	0.02	0.03	-	0.03
3/4	0.07	0.04	0.03	0.04	0.06	0.09	0.03	0.04	-	0.05
1	0.09	0.08	0.05	0.09	0.10	0.13	0.05	0.09	-	0.09
1 1/4	0.11	0.11	0.07	0.11	0.14	0.18	0.07	0.11	-	0.12
1 1/2	0.20	0.15	0.08	0.13	0.17	0.22	0.08	0.13	-	0.15
2	0.28	0.23	0.10	0.17	0.23	0.31	0.10	0.17	-	0.19
2 1/2	0.34	0.34	0.16	0.23	0.37	0.45	0.16	0.23	-	0.34
3	0.53	0.51	0.25	0.37	0.64	0.86	0.25	0.37	-	0.56
3 1/2	-	0.70	0.34	0.56	0.95	1.32	0.34	0.56	-	0.79
4	1.00	0.88	0.41	0.59	1.14	1.59	0.41	0.59	-	0.90
5	1.14	1.29	0.81	0.99	1.91	2.63	0.81	0.99	-	-
6	2.65	1.99	1.13	1.39	2.91	4.27	1.13	1.39	-	-
8	5.55	3.61	1.76	2.38	4.99	7.72	1.76	2.38	4.09	4.54
10	8.00	6.33	3.35	4.13	9.08	11.8	3.35	4.13	6.36	7.72
12	9.90	9.43	5.54	6.39	13.2	17.3	5.54	6.39	9.08	11.8
14	13.5	13.2	6.62	7.99	15.9	20.4	6.62	10.7	13.2	15.9
16	18.2	16.6	8.82	10.1	20.4	26.3	8.82	13.5	16.8	20.4
18	26.0	21.2	11.3	12.9	25.9	33.6	11.3	17.2	21.8	30.4
20	38.0	26.4	16.0	18.5	32.2	42.7	16.0	21.5	32.2	42.7
22	-	31.5	19.5	22.6	37.7	49.9	19.5	26.3	-	-
24	59.0	36.6	26.2	30.1	46.3	59.5	26.2	30.1	46.3	66.7
26	-	41.0	-	-	-	-	-	-	66.3	-
28	74.5	45.5	-	-	-	-	-	-	75.0	-
30	-	50.3	-	-	-	-	-	-	84.4	99.0
32	90.7	55.4	-	-	-	-	-	-	91.2	-
34	-	62.3	-	-	-	-	-	-	100	-
36	108	68.0	-	-	-	-	-	-	109	-
38	-	79.0	-	-	-	-	-	-	-	-
40	136	95.0	-	-	-	-	-	-	-	-
42	-	92.0	-	-	-	-	-	-	-	-
44	-	103	-	-	-	-	-	-	-	-
46	-	111	-	-	-	-	-	-	-	-
48	190	118	-	-	-	-	-	-	-	-

NPS	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
1/2	0.03	0.03	-	0.05	0.05	-	-	-	-	-
3/4	0.06	0.06	-	0.09	0.09	-	-	-	-	-
1	0.10	0.10	-	0.13	0.13	-	-	-	0.16	0.20
1 1/4	0.14	0.14	-	0.18	0.18	-	-	-	0.22	0.29
1 1/2	0.17	0.17	-	0.22	0.22	-	-	-	0.29	0.36
2	0.23	0.23	-	0.31	0.31	-	-	-	0.50	0.59
2 1/2	0.37	0.37	-	0.45	0.45	-	-	-	0.82	1.00
3	0.64	0.64	-	0.86	0.86	-	-	-	1.41	1.77
3 1/2	0.95	0.95	-	1.32	1.32	-	-	-	-	2.63
4	1.14	1.14	-	1.59	1.59	-	2.32	-	2.72	3.18
5	1.91	1.91	-	2.63	2.63	-	3.90	-	4.54	5.45
6	2.91	2.91	-	4.27	4.27	-	5.90	-	7.26	8.63
8	4.99	4.99	6.36	7.72	7.72	10.9	12.7	14.1	15.4	15.0
10	9.08	9.08	11.8	11.8	16.3	20.0	22.3	25.9	28.6	-
12	13.2	14.5	22.3	17.3	26.8	32.2	36.8	40.9	45.4	-
14	15.9	18.6	27.7	20.4	34.5	38.6	49.9	54.5	59.0	-
16	20.4	26.3	38.1	26.3	47.7	54.5	63.6	74.9	81.7	-
18	25.9	41.8	54.9	33.6	67.7	90.8	104	109	116	-
20	32.2	54.9	73.6	42.7	91.3	125	136	159	191	-
22	37.7	-	-	49.9	-	-	-	-	-	-
24	46.3	93.1	128	59.5	155	166	195	216	241	-
26	49.9	-	-	66.3	-	-	-	-	-	-
28	56.2	-	-	75.0	-	-	-	-	-	-
30	62.2	-	-	84.4	-	-	-	-	-	-
32	68.4	-	-	91.2	-	-	-	-	-	-
34	75.0	-	-	100	-	-	-	-	-	-
36	82.0	-	-	109	-	-	-	-	-	-
38	95.0	-	-	126	-	-	-	-	-	-
40	102	-	-	137	-	-	-	-	-	-
42	110	-	-	147	-	-	-	-	-	-
44	126	-	-	167	-	-	-	-	-	-
46	134	-	-	179	-	-	-	-	-	-
48	143	-	-	191	-	-	-	-	-	-



## Approximate Weights of Buttwelding Fittings - Lap Joint Stub Ends

NPS	JIS				ASME Long							
	S5s	S10s	S20s	S40s	S5s	S10s	S40s	S80s	STD	S40	XS	S80
1/2	0.04	0.05	0.07	0.07	0.08	0.11	0.14	0.15	0.14	0.14	0.15	0.15
3/4	0.05	0.07	0.08	0.09	0.10	0.13	0.18	0.20	0.18	0.18	0.20	0.20
1	0.10	0.17	0.18	0.20	0.15	0.25	0.30	0.39	0.30	0.30	0.39	0.39
1 1/4	0.13	0.21	0.23	0.27	0.19	0.32	0.41	0.54	0.41	0.41	0.54	0.54
1 1/2	0.14	0.24	0.25	0.31	0.24	0.41	0.54	0.68	0.54	0.54	0.68	0.68
2	0.18	0.30	0.38	0.42	0.42	0.71	1.00	1.36	1.00	1.00	1.36	1.36
2 1/2	0.30	0.43	0.49	0.73	0.65	0.94	1.59	2.09	1.59	1.59	2.09	2.09
3	0.34	0.48	0.64	0.87	0.82	1.18	2.13	2.86	2.13	2.13	2.86	2.86
3 1/2	-	-	-	-	0.92	1.33	2.50	3.00	2.50	2.50	3.00	3.00
4	0.43	0.61	0.81	1.21	1.11	1.61	3.18	4.22	3.18	3.18	4.22	4.22
5	0.72	0.87	1.28	1.68	2.30	2.83	5.45	7.72	5.45	5.45	7.72	7.72
6	0.88	1.07	1.57	2.21	2.65	3.26	6.81	10.4	6.81	6.81	10.4	10.4
8	1.36	1.94	3.12	3.92	3.54	4.80	10.4	15.9	10.4	10.4	15.9	15.9
10	2.15	2.53	4.08	5.80	6.66	8.21	18.2	24.5	18.2	18.2	24.5	28.6
12	2.89	3.25	4.67	7.34	9.25	10.7	22.3	30.0	22.3	23.6	30.0	39.5
14	-	-	-	-	-	-	29.1	40.4	29.1	33.1	40.4	55.8
16	-	-	-	-	-	-	32.7	43.6	32.7	44.0	43.6	73.1
18	-	-	-	-	-	-	38.6	50.9	38.6	57.2	50.9	93.1
20	-	-	-	-	-	-	42.7	56.8	42.7	66.7	56.8	114
22	-	-	-	-	-	-	47.7	63.1	47.7	-	63.1	141
24	-	-	-	-	-	-	51.3	68.6	51.3	93.1	68.6	163

NPS	ASME Short & MSS								JPI			
	S5s	S10s	S40s	S80s	STD	S40	XS	S80	S5s	S10s	S20s	S40s
1/2	0.07	0.09	0.12	0.13	0.12	0.12	0.13	0.13	0.04	0.06	0.06	0.07
3/4	0.08	0.11	0.15	0.17	0.15	0.15	0.17	0.17	0.06	0.08	0.09	0.10
1	0.10	0.16	0.19	0.25	0.19	0.19	0.25	0.25	0.08	0.13	0.14	0.16
1 1/4	0.12	0.20	0.26	0.34	0.26	0.26	0.34	0.34	0.10	0.17	0.19	0.22
1 1/2	0.17	0.29	0.38	0.48	0.38	0.38	0.48	0.48	0.12	0.21	0.23	0.27
2	0.23	0.38	0.54	0.73	0.54	0.54	0.73	0.73	0.20	0.33	0.43	0.47
2 1/2	0.33	0.47	0.80	1.05	0.80	0.80	1.05	1.05	0.31	0.44	0.53	0.74
3	0.44	0.63	1.13	1.52	1.13	1.13	1.52	1.52	0.40	0.57	0.76	1.01
3 1/2	0.54	0.79	1.48	1.78	1.48	1.48	1.78	1.78	-	-	-	-
4	0.63	0.92	1.81	2.40	1.81	1.81	2.40	2.40	0.60	0.87	1.12	1.68
5	1.07	1.32	2.54	3.60	2.54	2.54	3.60	3.60	0.98	1.21	1.73	2.28
6	1.45	1.78	3.72	5.70	3.72	3.72	5.70	5.70	1.34	1.64	2.41	3.37
8	2.00	2.71	5.89	8.96	5.89	5.89	8.96	8.96	1.95	2.78	4.47	5.61
10	3.82	4.71	10.4	14.1	10.4	10.4	14.1	16.4	3.51	4.13	6.65	9.45
12	6.22	7.17	15.0	20.1	15.0	15.9	20.1	26.5	5.81	6.52	9.38	14.7
14	-	-	15.5	21.5	15.5	17.6	21.5	29.7	-	-	-	-
16	-	-	18.0	24.0	18.0	24.2	24.0	40.2	-	-	-	-
18	-	-	21.0	27.7	21.0	31.1	27.7	50.6	-	-	-	-
20	-	-	23.3	31.0	23.3	36.4	31.0	62.2	-	-	-	-
22	-	-	25.0	33.0	25.0	-	33.0	73.7	-	-	-	-
24	-	-	28.4	38.0	28.4	51.5	38.0	90.3	-	-	-	-

## Approximate Weights of Buttwelding Fittings - Reducing Tees

NPS	DIN S3	SGP	Sch5s	Sch10s	Sch40s	Sch80s	Sch5	Sch10	Sch20	Sch30
3/4 x 1/2	0.13	0.12	0.14	0.19	0.23	0.31	0.14	0.19	-	0.19
1 x 3/4	0.26	0.23	0.23	0.38	0.42	0.57	0.23	0.38	-	0.36
1 x 1/2	0.25	0.22	0.22	0.36	0.40	0.54	0.22	0.36	-	0.34
1 1/4 x 1	0.41	0.39	0.35	0.58	0.68	0.92	0.35	0.58	-	0.56
1 1/4 x 3/4	0.40	0.37	0.35	0.58	0.68	0.92	0.35	0.58	-	0.56
1 1/4 x 1/2	0.39	0.36	0.35	0.58	0.68	0.92	0.35	0.58	-	0.56
1 1/2 x 1 1/4	0.58	0.56	0.50	0.85	1.02	1.41	0.50	0.85	-	0.88
1 1/2 x 1	0.57	0.53	0.49	0.82	0.99	1.37	0.49	0.82	-	0.85
1 1/2 x 3/4	0.55	0.51	0.48	0.81	0.97	1.34	0.48	0.81	-	0.83
1 1/2 x 1/2	-	0.49	0.45	0.76	0.91	1.26	0.45	0.76	-	0.78
2 x 1 1/2	0.79	0.80	0.78	1.33	1.70	2.41	0.78	1.33	-	1.38
2 x 1 1/4	0.76	0.77	0.75	1.27	1.63	2.31	0.75	1.27	-	1.32
2 x 1	0.72	0.73	0.73	1.24	1.59	2.26	0.73	1.24	-	1.29
2 x 3/4	0.71	0.70	0.68	1.15	1.48	2.10	0.68	1.15	-	1.20
2 x 1/2	-	0.69	0.64	1.09	1.40	1.99	0.64	1.09	-	1.13
2 1/2 x 2	1.20	1.31	1.22	1.77	2.72	3.70	1.22	1.77	-	2.53
2 1/2 x 1 1/2	1.16	1.25	1.13	1.63	2.50	3.40	1.13	1.63	-	2.33
2 1/2 x 1 1/4	1.12	1.22	1.07	1.55	2.38	3.24	1.07	1.55	-	2.21
2 1/2 x 1	1.10	1.18	1.02	1.48	2.27	3.09	1.02	1.48	-	2.11
2 1/2 x 3/4	-	1.16	0.99	1.43	2.20	2.99	0.99	1.43	-	2.05
2 1/2 x 1/2	-	1.15	0.96	1.38	2.13	2.90	0.96	1.38	-	1.98
3 x 2 1/2	1.83	1.79	1.29	1.87	3.06	4.25	1.29	1.87	-	2.66
3 x 2	1.80	1.68	1.24	1.80	2.95	4.10	1.24	1.80	-	2.57
3 x 1 1/2	1.70	1.62	1.19	1.73	2.84	3.95	1.19	1.73	-	2.47
3 x 1 1/4	1.68	1.60	1.17	1.70	2.79	3.88	1.17	1.70	-	2.43
3 x 1	-	1.56	1.16	1.68	2.75	3.82	1.16	1.68	-	2.39
3 x 3/4	-	1.52	1.14	1.65	2.71	3.77	1.14	1.65	-	2.36
3 x 1/2	-	1.50	1.12	1.63	2.67	3.71	1.12	1.63	-	2.32
3 1/2 x 3	-	2.29	1.60	2.32	4.00	5.64	1.60	2.32	-	3.32

NPS	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
3/4 x 1/2	0.23	0.23	-	0.31	0.31	-	-	-	0.45	0.58
1 x 3/4	0.42	0.42	-	0.57	0.57	-	-	-	0.79	1.05
1 x 1/2	0.40	0.40	-	0.54	0.54	-	-	-	0.75	1.00
1 1/4 x 1	0.68	0.68	-	0.92	0.92	-	-	-	1.21	1.72
1 1/4 x 3/4	0.68	0.68	-	0.92	0.92	-	-	-	1.21	1.72
1 1/4 x 1/2	0.68	0.68	-	0.92	0.92	-	-	-	1.21	1.72
1 1/2 x 1 1/4	1.02	1.02	-	1.41	1.41	-	-	-	1.98	2.62
1 1/2 x 1	0.99	0.99	-	1.37	1.37	-	-	-	1.92	2.54
1 1/2 x 3/4	0.97	0.97	-	1.34	1.34	-	-	-	1.88	2.49
1 1/2 x 1/2	0.91	0.91	-	1.26	1.26	-	-	-	1.77	2.34
2 x 1 1/2	1.70	1.70	-	2.41	2.41	-	-	-	3.54	4.47
2 x 1 1/4	1.63	1.63	-	2.31	2.31	-	-	-	3.39	4.29
2 x 1	1.59	1.59	-	2.26	2.26	-	-	-	3.31	4.18
2 x 3/4	1.48	1.48	-	2.10	2.10	-	-	-	3.08	3.89
2 x 1/2	1.40	1.40	-	1.99	1.99	-	-	-	2.91	3.68
2 1/2 x 2	2.72	2.72	-	3.70	3.70	-	-	-	5.03	6.88
2 1/2 x 1 1/2	2.50	2.50	-	3.40	3.40	-	-	-	4.63	6.33
2 1/2 x 1 1/4	2.38	2.38	-	3.24	3.24	-	-	-	4.40	6.02
2 1/2 x 1	2.27	2.27	-	3.09	3.09	-	-	-	4.20	5.74
2 1/2 x 3/4	2.20	2.20	-	2.99	2.99	-	-	-	4.07	5.57
2 1/2 x 1/2	2.13	2.13	-	2.90	2.90	-	-	-	3.94	5.39
3 x 2 1/2	3.06	3.06	-	4.25	4.25	-	-	-	5.78	7.89
3 x 2	2.95	2.95	-	4.10	4.10	-	-	-	5.58	7.61
3 x 1 1/2	2.84	2.84	-	3.95	3.95	-	-	-	5.37	7.33
3 x 1 1/4	2.79	2.79	-	3.88	3.88	-	-	-	5.27	7.20
3 x 1	2.75	2.75	-	3.82	3.82	-	-	-	5.20	7.10
3 x 3/4	2.71	2.71	-	3.77	3.77	-	-	-	5.12	6.99
3 x 1/2	2.67	2.67	-	3.71	3.71	-	-	-	5.05	6.89
3 1/2 x 3	4.00	4.00	-	5.64	5.64	-	-	-	-	-

## Approximate Weights of Butt Welding Fittings - Reducing Tees

NPS	DIN S3	SGP	Sch5s	Sch10s	Sch40s	Sch80s	Sch5	Sch10	Sch20	Sch30
3 1/2 x 2 1/2	-	2.21	1.54	2.24	3.86	5.44	1.54	2.24	-	3.20
3 1/2 x 2	-	2.09	1.51	2.19	3.77	5.32	1.51	2.19	-	3.13
3 1/2 x 1 1/2	-	2.03	1.45	2.11	3.63	5.12	1.45	2.11	-	3.01
3 1/2 x 1 1/4	-	2.00	1.42	2.06	3.55	5.01	1.42	2.06	-	2.95
4 x 3 1/2	-	3.00	2.09	3.00	5.36	7.61	2.09	3.00	-	4.23
4 x 3	3.00	2.92	2.06	2.95	5.27	7.48	2.06	2.95	-	4.16
4 x 2 1/2	2.90	2.84	2.00	2.87	5.13	7.28	2.00	2.87	-	4.05
4 x 2	2.85	2.72	1.99	2.86	5.11	7.26	1.99	2.86	-	4.04
4 x 1 1/2	2.80	2.66	1.97	2.83	5.06	7.19	1.97	2.83	-	4.00
4 x 1 1/4	-	2.60	1.95	2.80	5.00	7.10	1.95	2.80	-	3.95
4 x 1	-	2.55	1.93	2.77	4.94	7.01	1.93	2.77	-	3.90
5 x 4	4.70	4.30	4.48	5.43	9.53	13.8	4.48	5.43	-	-
5 x 3 1/2	-	4.17	4.38	5.31	9.31	13.5	4.38	5.31	-	-
5 x 3	4.60	4.08	4.27	5.18	9.08	13.2	4.27	5.18	-	-
5 x 2 1/2	4.60	4.00	4.16	5.04	8.85	12.8	4.16	5.04	-	-
5 x 2	4.50	3.90	4.06	4.92	8.63	12.5	4.06	4.92	-	-
5 x 1 1/2	-	3.60	4.00	4.86	8.52	12.4	4.00	4.86	-	-
5 x 1 1/4	-	3.30	3.95	4.79	8.41	12.2	3.95	4.79	-	-
6 x 5	6.90	6.45	6.73	8.30	15.7	24.1	6.73	8.30	-	-
6 x 4	6.70	6.23	6.54	8.06	15.2	23.4	6.54	8.06	-	-
6 x 3 1/2	-	6.09	6.44	7.94	15.0	23.1	6.44	7.94	-	-
6 x 3	6.60	6.01	6.35	7.82	14.8	22.7	6.35	7.82	-	-
6 x 2 1/2	6.50	5.92	6.25	7.70	14.5	22.4	6.25	7.70	-	-
6 x 2	-	5.80	6.15	7.58	14.3	22.0	6.15	7.58	-	-
8 x 6	14.4	11.9	9.07	12.5	24.5	38.0	9.07	12.5	20.8	23.3
8 x 5	13.6	11.5	8.90	12.3	24.1	37.3	8.90	12.3	20.5	22.9
8 x 4	13.1	11.3	8.69	12.0	23.5	36.4	8.69	12.0	20.0	22.3
8 x 3 1/2	-	11.0	8.52	11.8	23.0	35.7	8.52	11.8	19.6	21.9
8 x 3	12.8	10.8	8.44	11.6	22.8	35.3	8.44	11.6	19.4	21.7

NPS	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
3 1/2 x 2 1/2	3.86	3.86	-	5.44	5.44	-	-	-	-	-
3 1/2 x 2	3.77	3.77	-	5.32	5.32	-	-	-	-	-
3 1/2 x 1 1/2	3.63	3.63	-	5.12	5.12	-	-	-	-	-
3 1/2 x 1 1/4	3.55	3.55	-	5.01	5.01	-	-	-	-	-
4 x 3 1/2	5.36	5.36	-	7.61	7.61	-	9.92	-	11.2	14.2
4 x 3	5.27	5.27	-	7.48	7.48	-	9.75	-	11.0	13.9
4 x 2 1/2	5.13	5.13	-	7.28	7.28	-	9.49	-	10.7	13.5
4 x 2	5.11	5.11	-	7.26	7.26	-	9.45	-	10.6	13.5
4 x 1 1/2	5.06	5.06	-	7.19	7.19	-	9.36	-	10.5	13.4
4 x 1 1/4	5.00	5.00	-	7.10	7.10	-	9.25	-	10.4	13.2
4 x 1	4.94	4.94	-	7.01	7.01	-	9.14	-	10.3	13.0
5 x 4	9.53	9.53	-	13.8	13.8	-	18.5	-	21.4	25.7
5 x 3 1/2	9.31	9.31	-	13.5	13.5	-	18.1	-	21.0	25.1
5 x 3	9.08	9.08	-	13.2	13.2	-	17.6	-	20.4	24.5
5 x 2 1/2	8.85	8.85	-	12.8	12.8	-	17.2	-	19.9	23.9
5 x 2	8.63	8.63	-	12.5	12.5	-	16.7	-	19.4	23.3
5 x 1 1/2	8.52	8.52	-	12.4	12.4	-	16.5	-	19.2	23.0
5 x 1 1/4	8.41	8.41	-	12.2	12.2	-	16.3	-	18.9	22.7
6 x 5	15.7	15.7	-	24.1	24.1	-	29.3	-	37.4	44.9
6 x 4	15.2	15.2	-	23.4	23.4	-	28.4	-	36.4	43.7
6 x 3 1/2	15.0	15.0	-	23.1	23.1	-	28.0	-	35.8	43.0
6 x 3	14.8	14.8	-	22.7	22.7	-	27.6	-	35.3	42.4
6 x 2 1/2	14.5	14.5	-	22.4	22.4	-	27.2	-	34.7	41.7
6 x 2	14.3	14.3	-	22.0	22.0	-	26.7	-	34.2	41.0
8 x 6	24.5	24.5	30.9	38.0	38.0	45.1	51.0	57.4	64.2	62.0
8 x 5	24.1	24.1	30.3	37.3	37.3	44.3	50.0	56.3	63.0	60.9
8 x 4	23.5	23.5	29.6	36.4	36.4	43.2	48.9	55.0	61.5	59.4
8 x 3 1/2	23.0	23.0	29.0	35.7	35.7	42.4	47.9	53.9	60.4	58.3
8 x 3	22.8	22.8	28.7	35.3	35.3	42.0	47.4	53.4	59.7	57.7

## Approximate Weights of Buttwelding Fittings - Reducing Tees

NPS	DIN S3	SGP	Sch5s	Sch10s	Sch40s	Sch80s	Sch5	Sch10	Sch20	Sch30
10 × 8	20.3 *	20.4	15.3	19.2	38.4	52.6	15.3	19.2	28.8	35.7
10 × 6	19.5	19.5	15.1	18.8	37.7	51.6	15.1	18.8	28.3	35.0
10 × 5	19.0	19.2	14.7	18.4	36.8	50.4	14.7	18.4	27.6	34.2
10 × 4	18.6	18.9	14.5	18.2	36.3	49.8	14.5	18.2	27.2	33.8
10 × 3	-	18.5	14.4	18.0	36.0	49.3	14.4	18.0	27.0	33.5
12 × 10	34.1	30.4	24.9	28.6	54.0	71.9	24.9	28.6	39.4	52.4
12 × 8	33.7	29.0	24.4	28.2	53.1	70.7	24.4	28.2	38.8	51.5
12 × 6	33.0	28.1	23.8	27.4	51.8	68.8	23.8	27.4	37.8	50.2
12 × 5	32.6	27.8	23.0	26.5	49.9	66.4	23.0	26.5	36.5	48.4
12 × 4	-	27.4	22.6	26.1	49.2	65.4	22.6	26.1	35.9	47.7
14 × 12	58.0	42.7	33.4	40.0	72.6	96.6	33.4	53.0	66.1	72.6
14 × 10	57.0	41.2	33.0	39.5	71.7	95.4	33.0	52.4	65.3	71.7
14 × 8	55.0	40.0	32.4	38.7	70.4	93.6	32.4	51.4	64.0	70.4
14 × 6	54.0	39.0	31.5	37.7	68.5	91.1	31.5	50.0	62.3	68.5
14 × 5	-	37.8	30.8	36.9	67.0	89.1	30.8	48.9	61.0	67.0
16 × 14	81.0	54.2	42.3	48.4	88.1	117	42.3	64.3	80.2	88.1
16 × 12	80.0	52.7	41.6	47.7	86.7	115	41.6	63.3	78.9	86.7
16 × 10	78.0	51.2	40.5	46.4	84.4	112	40.5	61.6	76.8	84.4
16 × 8	76.0	49.4	39.2	45.0	81.7	109	39.2	59.7	74.4	81.7
16 × 6	74.0	48.5	37.7	43.2	78.5	104	37.7	57.3	71.5	78.5
18 × 16	128	67.9	52.5	60.2	109	146	52.5	79.9	99.6	128
18 × 14	125	66.9	51.4	58.9	107	143	51.4	78.2	97.5	125
18 × 12	123	65.4	50.1	57.4	104	139	50.1	76.2	95.0	122
18 × 10	121	63.4	48.4	55.4	101	134	48.4	73.6	91.7	118
18 × 8	118	62.0	46.0	52.7	96	127	46.0	69.9	87.2	112
20 × 18	157	84.2	84.9	98.8	154	205	84.9	113	154	205
20 × 16	155	82.1	84.4	98.2	153	204	84.4	112	153	204
20 × 14	153	81.1	83.9	97.6	153	203	83.9	111	153	203
20 × 12	152	79.2	83.4	97.1	152	202	83.4	111	152	202

NPS	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
10 × 8	38.4	38.4	52.6	52.6	62.5	75.6	82.5	97.8	106	97.8
10 × 6	37.7	37.7	51.6	51.6	61.4	74.2	81.0	96.1	104	96.1
10 × 5	36.8	36.8	50.4	50.4	59.9	72.4	79.1	93.8	102	93.8
10 × 4	36.3	36.3	49.8	49.8	59.2	71.6	78.1	92.6	101	92.6
10 × 3	36.0	36.0	49.3	49.3	58.7	70.9	77.4	91.8	100	91.8
12 × 10	54.0	58.4	81.1	71.9	98.9	113	134	146	170	134
12 × 8	53.1	57.4	79.7	70.7	97.2	111	132	143	167	132
12 × 6	51.8	55.9	77.6	68.8	94.7	108	128	140	163	128
12 × 5	49.9	53.9	74.9	66.4	91.4	104	124	135	157	124
12 × 4	49.2	53.1	73.8	65.4	90.0	103	122	133	155	122
14 × 12	72.6	85.0	115	96.6	135	169	197	218	245	-
14 × 10	71.7	83.9	113	95.4	133	167	194	215	242	-
14 × 8	70.4	82.3	111	93.6	131	164	191	211	237	-
14 × 6	68.5	80.2	108	91.1	127	160	186	206	231	-
14 × 5	67.0	78.4	106	89.1	125	156	182	201	226	-
16 × 14	88.1	117	154	117	184	225	257	304	336	-
16 × 12	86.7	115	152	115	181	222	253	299	331	-
16 × 10	84.4	112	148	112	176	216	247	291	323	-
16 × 8	81.7	109	143	109	171	209	239	282	312	-
16 × 6	78.5	104	137	104	164	201	229	271	300	-
18 × 16	109	164	204	146	255	303	361	410	467	-
18 × 14	107	161	199	143	250	297	354	402	457	-
18 × 12	104	157	194	139	243	289	345	392	446	-
18 × 10	101	151	187	134	235	279	333	378	430	-
18 × 8	96	144	178	127	223	265	316	359	409	-
20 × 18	154	244	310	205	395	474	556	648	729	-
20 × 16	153	242	308	204	393	471	552	644	724	-
20 × 14	153	241	307	203	391	468	549	641	720	-
20 × 12	152	240	305	202	388	466	546	637	716	-

### Approximate Weights of Buttwelding Fittings - Reducing Tees

NPS	DIN S3	SGP/LG	Sch5s	Sch10s	Sch40s	Sch80s	Sch5	Sch10	Sch20	Sch30
20 × 10	150	78	83	96	151	200	83	110	151	200
20 × 8	148	76	82	96	150	199	82	109	150	199
22 × 20	-	103	103	120	187	249	103	137	187	249
22 × 18	-	101	102	119	186	248	102	136	186	248
22 × 16	-	99	102	119	185	246	102	135	185	246
22 × 14	-	97	101	118	184	245	101	135	184	245
22 × 12	-	-	101	117	183	244	101	134	183	244
22 × 10	-	-	100	117	183	243	100	133	183	243
24 × 22	-	115	153	174	238	317	153	174	238	358
24 × 20	240	114	152	173	237	315	152	173	237	355
24 × 18	239	111	151	172	236	313	151	172	236	353
24 × 16	237	106	150	171	234	312	150	171	234	351
24 × 14	234	102	149	170	233	310	149	170	233	349
24 × 12	231	99	148	169	232	308	148	169	232	347
24 × 10	230	-	147	168	230	306	147	168	230	345
26 × 24	-	144	-	-	-	-	-	286	459	-
26 × 22	-	141	-	-	-	-	-	285	456	-
26 × 20	-	138	-	-	-	-	-	283	453	-
26 × 18	-	135	-	-	-	-	-	281	450	-
26 × 16	-	163	-	-	-	-	-	279	447	-
26 × 14	-	-	-	-	-	-	-	277	444	-
26 × 12	-	-	-	-	-	-	-	275	441	-
28 × 26	-	160	-	-	-	-	-	326	523	656
28 × 24	385	157	-	-	-	-	-	323	517	650
28 × 22	-	154	-	-	-	-	-	320	513	645
28 × 20	379	-	-	-	-	-	-	318	509	640
28 × 18	377	-	-	-	-	-	-	316	507	636
28 × 16	374	-	-	-	-	-	-	314	503	631
28 × 14	371	-	-	-	-	-	-	311	499	626
28 × 12	368	-	-	-	-	-	-	309	495	621

NPS	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
20 × 10	151	238	303	200	386	463	543	633	711	-
20 × 8	150	237	301	199	384	460	539	629	707	-
22 × 20	187	-	406	249	522	617	730	842	954	-
22 × 18	186	-	404	248	519	614	726	838	949	-
22 × 16	185	-	402	246	517	611	722	834	945	-
22 × 14	184	-	400	245	514	608	719	829	940	-
22 × 12	183	-	398	244	512	605	715	825	935	-
22 × 10	183	-	396	243	509	602	712	821	931	-
24 × 22	238	436	572	317	720	875	1037	1180	1340	-
24 × 20	237	434	569	315	716	870	1031	1173	1332	-
24 × 18	236	431	566	313	712	865	1025	1166	1324	-
24 × 16	234	429	562	312	707	860	1019	1160	1317	-
24 × 14	233	426	559	310	703	855	1013	1153	1309	-
24 × 12	232	424	556	308	699	850	1007	1146	1301	-
24 × 10	230	421	552	306	695	845	1001	1139	1294	-
26 × 24	345	-	-	459	-	-	-	-	-	-
26 × 22	343	-	-	456	-	-	-	-	-	-
26 × 20	341	-	-	453	-	-	-	-	-	-
26 × 18	338	-	-	450	-	-	-	-	-	-
26 × 16	336	-	-	447	-	-	-	-	-	-
26 × 14	334	-	-	444	-	-	-	-	-	-
26 × 12	331	-	-	441	-	-	-	-	-	-
28 × 26	393	-	-	523	-	-	-	-	-	-
28 × 24	389	-	-	517	-	-	-	-	-	-
28 × 22	386	-	-	513	-	-	-	-	-	-
28 × 20	383	-	-	509	-	-	-	-	-	-
28 × 18	381	-	-	507	-	-	-	-	-	-
28 × 16	378	-	-	503	-	-	-	-	-	-
28 × 14	375	-	-	499	-	-	-	-	-	-
28 × 12	372	-	-	495	-	-	-	-	-	-

### Approximate Weights of Buttwelding Fittings - Reducing Tees

NPS	DIN S3	LG	Sch5s	Sch10s	Sch40s	Sch80s	Sch10	Sch20	Sch30	STD	Sch40	XS
30 × 28	-	188	349	435	478	636	397	636	798	478	-	636
30 × 26	-	185	346	432	474	631	394	631	792	474	-	631
30 × 24	-	182	343	428	470	625	390	625	785	470	-	625
30 × 22	-	179	340	423	465	619	386	619	777	465	-	619
30 × 20	-	-	336	419	461	613	382	613	770	461	-	613
30 × 18	-	-	333	415	456	607	379	607	762	456	-	607
30 × 16	-	-	329	410	451	600	374	600	753	451	-	600
30 × 14	-	-	327	408	448	596	372	596	748	448	-	596
30 × 12	-	-	325	405	445	592	369	592	743	445	-	592
30 × 10	-	-	323	402	442	588	367	588	738	442	-	588
32 × 30	-	213	-	-	-	-	431	690	867	519	950	690
32 × 28	511	209	-	-	-	-	428	686	862	516	944	686
32 × 26	-	208	-	-	-	-	426	682	857	513	939	682
32 × 24	505	205	-	-	-	-	423	678	852	510	933	678
32 × 22	-	-	-	-	-	-	421	674	847	507	928	674
32 × 20	499	-	-	-	-	-	418	670	842	504	922	670
32 × 18	496	-	-	-	-	-	416	666	837	501	917	666
32 × 16	493	-	-	-	-	-	413	662	832	498	911	662
32 × 14	490	-	-	-	-	-	411	658	827	495	906	658
34 × 32	-	243	-	-	-	-	487	781	980	587	1074	781
34 × 30	-	238	-	-	-	-	485	777	975	584	1069	777
34 × 28	-	236	-	-	-	-	482	773	970	581	1063	773
34 × 26	-	232	-	-	-	-	480	769	965	578	1058	769
34 × 24	-	-	-	-	-	-	477	765	960	575	1052	765
34 × 22	-	-	-	-	-	-	475	761	955	572	1047	761
34 × 20	-	-	-	-	-	-	472	757	950	569	1041	757
34 × 18	-	-	-	-	-	-	470	753	945	566	1036	753
34 × 16	-	-	-	-	-	-	467	749	940	563	1030	749
36 × 34	-	271	-	-	-	-	558	894	1122	672	1344	894
36 × 32	662	269	-	-	-	-	555	890	1117	669	1338	890
36 × 30	-	264	-	-	-	-	553	886	1112	666	1332	886
36 × 28	656	260	-	-	-	-	550	882	1107	663	1326	882
36 × 26	-	-	-	-	-	-	548	878	1102	660	1320	878
36 × 24	650	-	-	-	-	-	545	874	1097	657	1314	874
36 × 22	-	-	-	-	-	-	543	870	1092	654	1308	870
36 × 20	645	-	-	-	-	-	540	866	1087	651	1302	866
36 × 18	642	-	-	-	-	-	538	862	1082	648	1296	862
36 × 16	639	-	-	-	-	-	535	858	1077	645	1290	858
38 × 36	-	306	-	-	-	-	-	-	-	921	-	1225
38 × 34	-	302	-	-	-	-	-	-	-	917	-	1220
38 × 32	-	298	-	-	-	-	-	-	-	913	-	1214
38 × 30	-	292	-	-	-	-	-	-	-	909	-	1209
38 × 28	-	-	-	-	-	-	-	-	-	905	-	1204
38 × 26	-	-	-	-	-	-	-	-	-	901	-	1198
38 × 24	-	-	-	-	-	-	-	-	-	897	-	1193
38 × 22	-	-	-	-	-	-	-	-	-	893	-	1188
38 × 20	-	-	-	-	-	-	-	-	-	889	-	1182
38 × 18	-	-	-	-	-	-	-	-	-	885	-	1177
40 × 38	-	340	-	-	-	-	-	-	-	1023	-	1361
40 × 36	1009	335	-	-	-	-	-	-	-	1019	-	1355
40 × 34	-	331	-	-	-	-	-	-	-	1015	-	1350
40 × 32	1001	326	-	-	-	-	-	-	-	1011	-	1345
40 × 30	-	-	-	-	-	-	-	-	-	1007	-	1339
40 × 28	993	-	-	-	-	-	-	-	-	1003	-	1334
40 × 26	-	-	-	-	-	-	-	-	-	999	-	1329

### Approximate Weights of Buttwelding Fittings - Reducing Tees

NPS	DIN S3	LG	Sch5s	Sch10s	Sch40s	Sch80s	Sch10	Sch20	Sch30	STD	Sch40	XS
40 × 24	985	-	-	-	-	-	-	-	-	995	-	1323
40 × 22	-	-	-	-	-	-	-	-	-	991	-	1318
40 × 20	977	-	-	-	-	-	-	-	-	987	-	1313
40 × 18	973	-	-	-	-	-	-	-	-	983	-	1307
42 × 40	-	350	-	-	-	-	-	-	-	1311	-	1744
42 × 38	-	348	-	-	-	-	-	-	-	1307	-	1738
42 × 36	-	346	-	-	-	-	-	-	-	1303	-	1733
42 × 34	-	341	-	-	-	-	-	-	-	1299	-	1728
42 × 32	-	-	-	-	-	-	-	-	-	1295	-	1722
42 × 30	-	-	-	-	-	-	-	-	-	1291	-	1717
42 × 28	-	-	-	-	-	-	-	-	-	1287	-	1712
42 × 26	-	-	-	-	-	-	-	-	-	1283	-	1706
42 × 24	-	-	-	-	-	-	-	-	-	1279	-	1701
42 × 22	-	-	-	-	-	-	-	-	-	1275	-	1696
42 × 20	-	-	-	-	-	-	-	-	-	1271	-	1690
42 × 18	-	-	-	-	-	-	-	-	-	1267	-	1685
42 × 16	-	-	-	-	-	-	-	-	-	1263	-	1680
44 × 42	-	394	-	-	-	-	-	-	-	1351	-	1797
44 × 40	-	389	-	-	-	-	-	-	-	1346	-	1790
44 × 38	-	385	-	-	-	-	-	-	-	1341	-	1784
44 × 36	-	380	-	-	-	-	-	-	-	1336	-	1777
44 × 34	-	-	-	-	-	-	-	-	-	1331	-	1770
44 × 32	-	-	-	-	-	-	-	-	-	1326	-	1764
44 × 30	-	-	-	-	-	-	-	-	-	1321	-	1757
44 × 28	-	-	-	-	-	-	-	-	-	1316	-	1750
44 × 26	-	-	-	-	-	-	-	-	-	1311	-	1744
44 × 24	-	-	-	-	-	-	-	-	-	1306	-	1737
44 × 22	-	-	-	-	-	-	-	-	-	1301	-	1730
44 × 20	-	-	-	-	-	-	-	-	-	1296	-	1724
46 × 44	-	432	-	-	-	-	-	-	-	1403	-	1866
46 × 42	-	427	-	-	-	-	-	-	-	1398	-	1859
46 × 40	-	423	-	-	-	-	-	-	-	1393	-	1853
46 × 38	-	420	-	-	-	-	-	-	-	1388	-	1846
46 × 36	-	-	-	-	-	-	-	-	-	1383	-	1839
46 × 34	-	-	-	-	-	-	-	-	-	1378	-	1833
46 × 32	-	-	-	-	-	-	-	-	-	1373	-	1826
46 × 30	-	-	-	-	-	-	-	-	-	1368	-	1819
46 × 28	-	-	-	-	-	-	-	-	-	1363	-	1813
46 × 26	-	-	-	-	-	-	-	-	-	1358	-	1806
46 × 24	-	-	-	-	-	-	-	-	-	1353	-	1799
46 × 22	-	-	-	-	-	-	-	-	-	1348	-	1793
48 × 46	-	472	-	-	-	-	-	-	-	1452	-	1931
48 × 44	-	470	-	-	-	-	-	-	-	1447	-	1925
48 × 42	-	462	-	-	-	-	-	-	-	1442	-	1918
48 × 40	1423	455	-	-	-	-	-	-	-	1437	-	1911
48 × 38	-	-	-	-	-	-	-	-	-	1432	-	1905
48 × 36	1413	-	-	-	-	-	-	-	-	1427	-	1898
48 × 34	-	-	-	-	-	-	-	-	-	1422	-	1891
48 × 32	1403	-	-	-	-	-	-	-	-	1417	-	1885
48 × 30	-	-	-	-	-	-	-	-	-	1412	-	1878
48 × 28	1393	-	-	-	-	-	-	-	-	1407	-	1871
48 × 26	-	-	-	-	-	-	-	-	-	1402	-	1865
48 × 24	1383	-	-	-	-	-	-	-	-	1397	-	1858
48 × 22	-	-	-	-	-	-	-	-	-	1392	-	1851

## Approximate Weights of Buttwelding Fittings - Con&Ecc Reducers

NPS	DIN S3	SGP	Sch5s	Sch10s	Sch40s	Sch80s	Sch5	Sch10	Sch20	Sch30
3/4 x 1/2	0.05	0.06	0.05	0.06	0.08	0.11	0.05	0.06	-	0.07
1 x 3/4	0.10	0.11	0.09	0.14	0.16	0.22	0.09	0.14	-	0.14
1 x 1/2	0.09	0.10	0.09	0.14	0.16	0.22	0.09	0.14	-	0.14
1 1/4 x 1	0.13	0.16	0.12	0.20	0.23	0.31	0.12	0.20	-	0.19
1 1/4 x 3/4	0.12	0.15	0.09	0.15	0.18	0.24	0.09	0.15	-	0.15
1 1/4 x 1/2	0.11	0.13	0.09	0.15	0.18	0.24	0.09	0.15	-	0.15
1 1/2 x 1 1/4	0.21	0.24	0.16	0.27	0.32	0.44	0.16	0.27	-	0.28
1 1/2 x 1	0.19	0.21	0.14	0.23	0.28	0.39	0.14	0.23	-	0.24
1 1/2 x 3/4	0.17	0.20	0.12	0.21	0.25	0.35	0.12	0.21	-	0.22
1 1/2 x 1/2	-	0.18	0.11	0.19	0.23	0.32	0.11	0.19	-	0.20
2 x 1 1/2	0.34	0.37	0.19	0.32	0.41	0.58	0.19	0.32	-	0.33
2 x 1 1/4	0.31	0.35	0.17	0.30	0.38	0.54	0.17	0.30	-	0.31
2 x 1	0.29	0.31	0.16	0.27	0.35	0.50	0.16	0.27	-	0.28
2 x 3/4	0.28	0.29	0.15	0.25	0.32	0.45	0.15	0.25	-	0.26
2 x 1/2	-	0.28	0.14	0.24	0.31	0.44	0.14	0.24	-	0.25
2 1/2 x 2	0.47	0.60	0.31	0.44	0.68	0.92	0.31	0.44	-	0.63
2 1/2 x 1 1/2	0.45	0.55	0.28	0.41	0.63	0.86	0.28	0.41	-	0.59
2 1/2 x 1 1/4	0.43	0.52	0.26	0.37	0.57	0.78	0.26	0.37	-	0.53
2 1/2 x 1	0.42	0.48	0.26	0.37	0.57	0.78	0.26	0.37	-	0.53
2 1/2 x 3/4	-	0.47	0.25	0.36	0.55	0.75	0.25	0.36	-	0.51
2 1/2 x 1/2	-	0.46	0.24	0.35	0.54	0.73	0.24	0.35	-	0.50
3 x 2 1/2	0.64	0.73	0.38	0.56	0.91	1.26	0.38	0.56	-	0.79
3 x 2	0.62	0.66	0.34	0.50	0.82	1.14	0.34	0.50	-	0.71
3 x 1 1/2	0.60	0.62	0.32	0.47	0.77	1.07	0.32	0.47	-	0.67
3 x 1 1/4	0.59	0.59	0.31	0.45	0.73	1.01	0.31	0.45	-	0.64
3 x 1	-	0.57	0.30	0.43	0.71	0.99	0.30	0.43	-	0.62
3 x 3/4	-	0.56	0.29	0.42	0.69	0.96	0.29	0.42	-	0.60
3 x 1/2	-	0.55	0.28	0.41	0.67	0.93	0.28	0.41	-	0.58

NPS	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
3/4 x 1/2	0.08	0.08	-	0.11	0.11	-	-	-	0.16	0.20
1 x 3/4	0.16	0.16	-	0.22	0.22	-	-	-	0.30	0.40
1 x 1/2	0.16	0.16	-	0.22	0.22	-	-	-	0.30	0.40
1 1/4 x 1	0.23	0.23	-	0.31	0.31	-	-	-	0.41	0.58
1 1/4 x 3/4	0.18	0.18	-	0.24	0.24	-	-	-	0.32	0.46
1 1/4 x 1/2	0.18	0.18	-	0.24	0.24	-	-	-	0.32	0.46
1 1/2 x 1 1/4	0.32	0.32	-	0.44	0.44	-	-	-	0.62	0.82
1 1/2 x 1	0.28	0.28	-	0.39	0.39	-	-	-	0.54	0.72
1 1/2 x 3/4	0.25	0.25	-	0.35	0.35	-	-	-	0.49	0.64
1 1/2 x 1/2	0.23	0.23	-	0.32	0.32	-	-	-	0.45	0.59
2 x 1 1/2	0.41	0.41	-	0.58	0.58	-	-	-	0.85	1.08
2 x 1 1/4	0.38	0.38	-	0.54	0.54	-	-	-	0.79	1.00
2 x 1	0.35	0.35	-	0.50	0.50	-	-	-	0.73	0.92
2 x 3/4	0.32	0.32	-	0.45	0.45	-	-	-	0.67	0.84
2 x 1/2	0.31	0.31	-	0.44	0.44	-	-	-	0.64	0.82
2 1/2 x 2	0.68	0.68	-	0.92	0.92	-	-	-	1.26	1.72
2 1/2 x 1 1/2	0.63	0.63	-	0.86	0.86	-	-	-	1.17	1.59
2 1/2 x 1 1/4	0.57	0.57	-	0.78	0.78	-	-	-	1.05	1.44
2 1/2 x 1	0.57	0.57	-	0.78	0.78	-	-	-	1.05	1.44
2 1/2 x 3/4	0.55	0.55	-	0.75	0.75	-	-	-	1.02	1.39
2 1/2 x 1/2	0.54	0.54	-	0.73	0.73	-	-	-	1.00	1.37
3 x 2 1/2	0.91	0.91	-	1.26	1.26	-	-	-	1.72	2.35
3 x 2	0.82	0.82	-	1.14	1.14	-	-	-	1.55	2.12
3 x 1 1/2	0.77	0.77	-	1.07	1.07	-	-	-	1.46	1.99
3 x 1 1/4	0.73	0.73	-	1.01	1.01	-	-	-	1.38	1.88
3 x 1	0.71	0.71	-	0.99	0.99	-	-	-	1.34	1.83
3 x 3/4	0.69	0.69	-	0.96	0.96	-	-	-	1.30	1.78
3 x 1/2	0.67	0.67	-	0.93	0.93	-	-	-	1.27	1.73



## Approximate Weights of Buttwelding Fittings - Con&Ecc Reducers

NPS	DIN S3	SGP	Sch5s	Sch10s	Sch40s	Sch80s	Sch5	Sch10	Sch20	Sch30
3 1/2 x 3	-	0.96	0.57	0.83	1.43	2.02	0.57	0.83	-	1.19
3 1/2 x 2 1/2	-	0.90	0.52	0.76	1.31	1.85	0.52	0.76	-	1.09
3 1/2 x 2	-	0.83	0.50	0.73	1.25	1.76	0.50	0.73	-	1.04
3 1/2 x 1 1/2	-	0.77	0.46	0.66	1.14	1.61	0.46	0.66	-	0.95
3 1/2 x 1 1/4	-	0.75	0.44	0.63	1.09	1.54	0.44	0.63	-	0.90
4 x 3 1/2	-	1.17	0.62	0.89	1.59	2.26	0.62	0.89	-	1.26
4 x 3	1.00	1.10	0.60	0.86	1.54	2.19	0.60	0.86	-	1.22
4 x 2 1/2	0.96	1.04	0.58	0.83	1.48	2.10	0.58	0.83	-	1.17
4 x 2	0.94	0.97	0.53	0.76	1.36	1.93	0.53	0.76	-	1.07
4 x 1 1/2	0.92	0.91	0.51	0.73	1.31	1.86	0.51	0.73	-	1.03
4 x 1 1/4	-	0.88	0.50	0.72	1.28	1.82	0.50	0.72	-	1.01
4 x 1	-	0.86	0.49	0.71	1.26	1.79	0.49	0.71	-	1.00
5 x 4	1.80	1.74	1.28	1.55	2.72	3.94	1.28	1.55	-	-
5 x 3 1/2	-	1.65	1.23	1.49	2.61	3.78	1.23	1.49	-	-
5 x 3	1.76	1.58	1.18	1.43	2.50	3.63	1.18	1.43	-	-
5 x 2 1/2	1.73	1.50	1.12	1.36	2.38	3.45	1.12	1.36	-	-
5 x 2	1.71	1.41	1.07	1.29	2.27	3.29	1.07	1.29	-	-
5 x 1 1/2	-	1.33	1.06	1.28	2.25	3.26	1.06	1.28	-	-
5 x 1 1/4	-	1.26	1.03	1.25	2.20	3.19	1.03	1.25	-	-
6 x 5	2.82	2.55	1.66	2.05	3.86	5.94	1.66	2.05	-	-
6 x 4	2.77	2.36	1.61	1.99	3.75	5.78	1.61	1.99	-	-
6 x 3 1/2	-	2.27	1.59	1.96	3.69	5.68	1.59	1.96	-	-
6 x 3	2.72	2.18	1.56	1.92	3.63	5.59	1.56	1.92	-	-
6 x 2 1/2	2.66	2.09	1.41	1.74	3.29	5.07	1.41	1.74	-	-
6 x 2	-	1.98	0.97	1.19	2.25	3.47	0.97	1.19	-	-
8 x 6	4.71	4.17	2.23	3.07	6.02	9.33	2.23	3.07	5.12	5.72
8 x 5	4.50	3.87	2.02	2.78	5.45	8.45	2.02	2.78	4.63	5.18
8 x 4	4.46	3.67	1.85	2.54	4.99	7.73	1.85	2.54	4.24	4.74

NPS	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
3 1/2 x 3	1.43	1.43	-	2.02	2.02	-	-	-	-	-
3 1/2 x 2 1/2	1.31	1.31	-	1.85	1.85	-	-	-	-	-
3 1/2 x 2	1.25	1.25	-	1.76	1.76	-	-	-	-	-
3 1/2 x 1 1/2	1.14	1.14	-	1.61	1.61	-	-	-	-	-
3 1/2 x 1 1/4	1.09	1.09	-	1.54	1.54	-	-	-	-	-
4 x 3 1/2	1.59	1.59	-	2.26	2.26	-	2.94	-	3.31	4.20
4 x 3	1.54	1.54	-	2.19	2.19	-	2.85	-	3.20	4.07
4 x 2 1/2	1.48	1.48	-	2.10	2.10	-	2.74	-	3.08	3.91
4 x 2	1.36	1.36	-	1.93	1.93	-	2.52	-	2.83	3.59
4 x 1 1/2	1.31	1.31	-	1.86	1.86	-	2.42	-	2.72	3.46
4 x 1 1/4	1.28	1.28	-	1.82	1.82	-	2.37	-	2.66	3.38
4 x 1	1.26	1.26	-	1.79	1.79	-	2.33	-	2.62	3.33
5 x 4	2.72	2.72	-	3.94	3.94	-	5.28	-	6.12	7.34
5 x 3 1/2	2.61	2.61	-	3.78	3.78	-	5.06	-	5.87	7.05
5 x 3	2.50	2.50	-	3.63	3.63	-	4.85	-	5.63	6.75
5 x 2 1/2	2.38	2.38	-	3.45	3.45	-	4.62	-	5.36	6.43
5 x 2	2.27	2.27	-	3.29	3.29	-	4.40	-	5.11	6.13
5 x 1 1/2	2.25	2.25	-	3.26	3.26	-	4.37	-	5.06	6.08
5 x 1 1/4	2.20	2.20	-	3.19	3.19	-	4.27	-	4.95	5.94
6 x 5	3.86	3.86	-	5.94	5.94	-	7.22	-	9.23	11.1
6 x 4	3.75	3.75	-	5.78	5.78	-	7.01	-	8.96	10.8
6 x 3 1/2	3.69	3.69	-	5.68	5.68	-	6.9	-	8.82	10.6
6 x 3	3.63	3.63	-	5.59	5.59	-	6.79	-	8.68	10.4
6 x 2 1/2	3.29	3.29	-	5.07	5.07	-	6.15	-	7.86	9.44
6 x 2	2.25	2.25	-	3.47	3.47	-	4.21	-	5.38	6.46
8 x 6	6.02	6.02	7.59	9.33	9.33	11.1	12.5	14.1	15.8	15.2
8 x 5	5.45	5.45	6.87	8.45	8.45	10.0	11.3	12.8	14.3	13.8
8 x 4	4.99	4.99	6.29	7.73	7.73	9.18	10.4	11.7	13.1	12.6

## Approximate Weights of Buttwelding Fittings - Con&Ecc Reducers

NPS	DIN S3	SGP	Sch5s	Sch10s	Sch40s	Sch80s	Sch5	Sch10	Sch20	Sch30
8 × 3½	-	3.55	1.81	2.49	4.88	7.56	1.81	2.49	4.15	4.64
8 × 3	4.32	3.43	1.78	2.46	4.82	7.47	1.78	2.46	4.10	4.58
10 × 8	7.40	6.87	4.00	5.00	9.99	13.69	4.00	5.00	7.49	9.29
10 × 6	7.33	6.32	3.90	4.88	9.76	13.37	3.90	4.88	7.32	9.08
10 × 5	7.27	6.06	3.81	4.77	9.53	13.06	3.81	4.77	7.15	8.86
10 × 4	7.21	5.80	3.63	4.54	9.08	12.44	3.63	4.54	6.81	8.44
10 × 3	-	5.50	3.60	4.50	9.00	12.33	3.60	4.50	6.75	8.37
12 × 10	11.29	9.97	7.08	8.16	15.4	20.5	7.08	8.16	11.2	14.9
12 × 8	11.2	9.29	6.67	7.69	14.5	19.3	6.67	7.69	10.6	14.1
12 × 6	11.1	8.69	6.49	7.47	14.1	18.8	6.49	7.47	10.3	13.7
12 × 5	11.0	8.39	6.26	7.21	13.6	18.1	6.26	7.21	9.93	13.2
12 × 4	-	8.00	6.21	7.16	13.5	18.0	6.21	7.16	9.86	13.1
14 × 12	22.54	21.2	12.5	15.0	27.2	36.2	12.5	19.9	24.8	27.2
14 × 10	22.1	19.7	12.4	14.8	26.9	35.8	12.4	19.6	24.5	26.9
14 × 8	21.7	18.3	12.2	14.6	26.6	35.4	12.2	19.4	24.2	26.6
14 × 6	21.4	16.9	12.1	14.5	26.3	35.0	12.1	19.2	23.9	26.3
14 × 5	-	15.7	12.0	14.3	26.0	34.6	12.0	19.0	23.7	26.0
16 × 14	30.5	25.9	15.5	17.7	32.2	42.8	15.5	23.5	29.3	32.2
16 × 12	30.0	24.1	15.3	17.5	31.8	42.3	15.3	23.2	28.9	31.8
16 × 10	29.8	22.4	15.2	17.4	31.6	42.0	15.2	23.1	28.8	31.6
16 × 8	29.5	21.7	14.9	17.1	31.1	41.4	14.9	22.7	28.3	31.1
16 × 6	29.1	21.0	14.8	17.0	30.9	41.1	14.8	22.6	28.1	30.9
18 × 16	41.9	31.5	18.5	21.2	38.6	51.3	18.5	28.2	35.1	45.2
18 × 14	41.6	29.8	18.3	21.0	38.1	50.7	18.3	27.8	34.7	44.6
18 × 12	41.2	27.7	18.1	20.7	37.7	50.1	18.1	27.5	34.3	44.1
18 × 10	41.0	27.1	17.9	20.5	37.2	49.5	17.9	27.2	33.9	43.5
18 × 8	40.7	26.5	17.5	20.1	36.5	48.6	17.5	26.7	33.2	42.7

NPS	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
8 × 3½	4.88	4.88	6.15	7.56	7.56	8.98	10.2	11.4	12.8	12.4
8 × 3	4.82	4.82	6.07	7.47	7.47	8.87	10.0	11.3	12.6	12.2
10 × 8	9.99	9.99	13.7	13.7	16.3	19.7	21.5	25.5	27.7	25.5
10 × 6	9.76	9.76	13.4	13.4	15.9	19.2	21.0	24.9	27.0	24.9
10 × 5	9.53	9.53	13.1	13.1	15.5	18.8	20.5	24.3	26.4	24.3
10 × 4	9.08	9.08	12.4	12.4	14.8	17.9	19.5	23.2	25.2	23.2
10 × 3	9.00	9.00	12.3	12.3	14.7	17.7	19.4	23.0	24.9	23.0
12 × 10	15.4	16.6	23.1	20.5	28.2	32.2	38.2	41.6	48.5	38.2
12 × 8	14.5	15.7	21.8	19.3	26.5	30.3	36.0	39.2	45.7	36.0
12 × 6	14.1	15.2	21.2	18.8	25.8	29.5	35.0	38.1	44.4	35.0
12 × 5	13.6	14.7	20.4	18.1	24.9	28.4	33.7	36.7	42.8	33.7
12 × 4	13.5	14.6	20.3	18.0	24.7	28.2	33.5	36.5	42.5	33.5
14 × 12	27.2	31.8	43.0	36.2	50.6	63.4	73.7	81.6	91.7	-
14 × 10	26.9	31.5	42.5	35.8	50.0	62.7	72.9	80.7	90.7	-
14 × 8	26.6	31.1	42.0	35.4	49.5	62.0	72.1	79.8	89.6	-
14 × 6	26.3	30.8	41.6	35.0	48.9	61.3	71.3	78.9	88.6	-
14 × 5	26.0	30.4	41.1	34.6	48.4	60.6	70.5	78.0	87.6	-
16 × 14	32.2	42.8	56.4	42.8	67.3	82.4	94.0	111	123	-
16 × 12	31.8	42.3	55.7	42.3	66.5	81.4	92.9	110	121	-
16 × 10	31.6	42.0	55.3	42.0	66.0	80.9	92.3	109	121	-
16 × 8	31.1	41.4	54.4	41.4	65.0	79.6	90.8	107	119	-
16 × 6	30.9	41.1	54.1	41.1	64.6	79.1	90.2	107	118	-
18 × 16	38.6	57.9	71.8	51.3	89.9	107	127	145	165	-
18 × 14	38.1	57.2	70.9	50.7	88.8	106	126	143	163	-
18 × 12	37.7	56.6	70.1	50.1	87.8	104	124	141	161	-
18 × 10	37.2	55.8	69.2	49.5	86.7	103	123	140	159	-
18 × 8	36.5	54.8	67.9	48.6	85.1	101	120	137	156	-

### Approximate Weights of Buttwelding Fittings - Con&Ecc Reducers

NPS	DIN S3	SGP/LG	Sch5s	Sch10s	Sch40s	Sch80s	Sch5	Sch10	Sch20	Sch30
20 × 18	68.6	47.0	31.2	36.4	56.8	75.5	31.2	41.5	56.8	75.5
20 × 16	68.2	44.7	31.0	36.0	56.3	74.9	31.0	41.1	56.3	74.9
20 × 14	67.9	42.4	30.5	35.5	55.4	73.7	30.5	40.4	55.4	73.7
20 × 12	67.5	40.8	30.0	34.9	54.5	72.5	30.0	39.8	54.5	72.5
20 × 10	67.0	38.5	29.3	34.1	53.3	70.9	29.3	38.9	53.3	70.9
20 × 8	66.3	36.2	28.7	33.4	52.2	69.4	28.7	38.1	52.2	69.4
22 × 20	-	52.1	35.5	41.3	64.5	85.8	35.5	47.1	64.5	85.8
22 × 18	-	49.5	34.5	40.1	62.7	83.4	34.5	45.8	62.7	83.4
22 × 16	-	47.0	32.7	38.1	59.5	79.1	32.7	43.4	59.5	79.1
22 × 14	-	45.3	30.7	35.7	55.8	74.2	30.7	40.7	55.8	74.2
22 × 12	-	-	29.4	34.2	53.5	71.2	29.4	39.1	53.5	71.2
22 × 10	-	-	28.6	33.3	52.0	69.2	28.6	38.0	52.0	69.2
24 × 22	-	57.1	44.8	51.1	70.0	93.1	44.8	51.1	70.0	105
24 × 20	97.0	54.8	43.6	49.7	68.1	90.6	43.6	49.7	68.1	102
24 × 18	96.5	52.6	43.0	49.1	67.2	89.4	43.0	49.1	67.2	101
24 × 16	95.4	50.4	42.1	48.0	65.8	87.5	42.1	48.0	65.8	98.7
24 × 14	94.0	48.5	40.8	46.5	63.7	84.7	40.8	46.5	63.7	95.6
24 × 12	93.0	47.0	39.4	44.9	61.5	81.8	39.4	44.9	61.5	92.3
24 × 10	91.5	-	37.9	43.2	59.2	78.7	37.9	43.2	59.2	88.8
26 × 24	-	74.5	-	-	-	-	-	78.0	125	-
26 × 22	-	71.5	-	-	-	-	-	75.4	121	-
26 × 20	-	68.5	-	-	-	-	-	71.6	115	-
26 × 18	-	66.3	-	-	-	-	-	68.6	110	-
26 × 16	-	80.6	-	-	-	-	-	-	-	-
28 × 26	-	77.5	-	-	-	-	-	84.7	136	170
28 × 24	129	74.5	-	-	-	-	-	81.4	130	164
28 × 22	-	72.4	-	-	-	-	-	79.1	127	159
28 × 20	119	-	-	-	-	-	-	75.0	120	151
28 × 18	110	-	-	-	-	-	-	-	-	-

NPS	STD	Sch40	Sch60	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
20 × 18	56.8	89.7	114	75.5	145	174	204	239	268	-
20 × 16	56.3	89.0	113	74.9	144	173	203	236	266	-
20 × 14	55.4	87.5	111	73.7	142	170	199	233	261	-
20 × 12	54.5	86.1	110	72.5	140	167	196	229	257	-
20 × 10	53.3	84.2	107	70.9	136	164	192	224	252	-
20 × 8	52.2	82.5	105	69.4	134	160	188	219	246	-
22 × 20	64.5	-	140	85.8	180	213	252	290	329	-
22 × 18	62.7	-	136	83.4	175	207	245	282	320	-
22 × 16	59.5	-	129	79.1	166	196	232	268	303	-
22 × 14	55.8	-	121	74.2	156	184	218	251	285	-
22 × 12	53.5	-	116	71.2	149	177	209	241	273	-
22 × 10	52.0	-	113	69.2	145	172	203	234	265	-
24 × 22	70.0	128	168	93.1	211	257	305	347	393	-
24 × 20	68.1	125	163	90.6	206	250	296	337	383	-
24 × 18	67.2	123	161	89.4	203	247	292	333	378	-
24 × 16	65.8	120	158	87.5	199	241	286	326	370	-
24 × 14	63.7	117	153	84.7	192	234	277	315	358	-
24 × 12	61.5	113	148	81.8	186	226	268	304	346	-
24 × 10	59.2	108	142	78.7	179	217	258	293	333	-
26 × 24	94.0	-	-	125	-	-	-	-	-	-
26 × 22	90.8	-	-	121	-	-	-	-	-	-
26 × 20	86.3	-	-	115	-	-	-	-	-	-
26 × 18	82.6	-	-	110	-	-	-	-	-	-
26 × 16	-	-	-	-	-	-	-	-	-	-
28 × 26	102	-	-	136	-	-	-	-	-	-
28 × 24	98.1	-	-	130	-	-	-	-	-	-
28 × 22	95.3	-	-	127	-	-	-	-	-	-
28 × 20	90.3	-	-	120	-	-	-	-	-	-
28 × 18	-	-	-	-	-	-	-	-	-	-

### Approximate Weights of Buttwelding Fittings - Con&Ecc Reducers

NPS	DIN S3	LG	Sch5s	Sch10s	Sch40s	Sch80s	Sch10	Sch20	Sch30	STD	Sch40	XS
28 x 16	103	-	-	-	-	-	-	-	-	-	-	-
28 x 14	95.0	-	-	-	-	-	-	-	-	-	-	-
28 x 12	90.0	-	-	-	-	-	-	-	-	-	-	-
30 x 28	-	86.6	79.6	99.2	109	145	90.5	145	182	109	-	145
30 x 26	-	83.6	76.7	95.6	105	140	87.2	140	175	105	-	140
30 x 24	-	80.6	74.5	92.8	102	136	84.7	136	170	102	-	136
30 x 22	-	78.5	73.0	91.0	100	133	83.0	133	167	100	-	133
32 x 30	-	92.6	-	-	-	-	97.1	156	195	117	214	156
32 x 28	149	89.6	-	-	-	-	93.8	150	189	113	207	150
32 x 26	-	86.6	-	-	-	-	90.5	145	182	109	199	145
32 x 24	141	84.6	-	-	-	-	88.8	142	179	107	196	142
32 x 20	134	-	-	-	-	-	-	-	-	-	-	-
32 x 18	130	-	-	-	-	-	-	-	-	-	-	-
32 x 16	125	-	-	-	-	-	-	-	-	-	-	-
32 x 14	120	-	-	-	-	-	-	-	-	-	-	-
34 x 32	-	98.7	-	-	-	-	103	165	207	124	227	165
34 x 30	-	95.6	-	-	-	-	100	161	202	121	221	161
34 x 28	-	92.6	-	-	-	-	97.1	156	195	117	214	156
34 x 26	-	90.7	-	-	-	-	93.8	150	189	113	207	150
36 x 34	-	105	-	-	-	-	110	176	220	132	264	176
36 x 32	169	102	-	-	-	-	106	170	214	128	256	170
36 x 30	-	99	-	-	-	-	103	165	207	124	248	165
36 x 28	159	96	-	-	-	-	100	161	202	121	242	161
36 x 26	-	-	-	-	-	-	98.8	158	199	119	238	158
36 x 24	155	-	-	-	-	-	-	-	-	-	-	-
36 x 20	151	-	-	-	-	-	-	-	-	-	-	-
36 x 18	147	-	-	-	-	-	-	-	-	-	-	-
36 x 16	144	-	-	-	-	-	-	-	-	-	-	-
38 x 36	-	112	-	-	-	-	-	-	-	140	-	186
38 x 34	-	108	-	-	-	-	-	-	-	135	-	180
38 x 32	-	105	-	-	-	-	-	-	-	132	-	176
38 x 30	-	103	-	-	-	-	-	-	-	129	-	172
38 x 28	-	-	-	-	-	-	-	-	-	127	-	169
38 x 26	-	-	-	-	-	-	-	-	-	124	-	165
40 x 38	-	117	-	-	-	-	-	-	-	147	-	196
40 x 36	190	114	-	-	-	-	-	-	-	144	-	192
40 x 34	-	111	-	-	-	-	-	-	-	140	-	186
40 x 32	180	109	-	-	-	-	-	-	-	137	-	182
40 x 30	-	-	-	-	-	-	-	-	-	133	-	177
40 x 28	171	-	-	-	-	-	-	-	-	-	-	-
40 x 24	163	-	-	-	-	-	-	-	-	-	-	-
40 x 20	158	-	-	-	-	-	-	-	-	-	-	-
40 x 18	154	-	-	-	-	-	-	-	-	-	-	-
42 x 40	-	123	-	-	-	-	-	-	-	131	-	174
42 x 38	-	120	-	-	-	-	-	-	-	154	-	205
42 x 36	-	117	-	-	-	-	-	-	-	151	-	201
42 x 34	-	115	-	-	-	-	-	-	-	147	-	196
42 x 32	-	-	-	-	-	-	-	-	-	145	-	193
42 x 30	-	-	-	-	-	-	-	-	-	142	-	189
44 x 42	-	129	-	-	-	-	-	-	-	163	-	217
44 x 40	-	126	-	-	-	-	-	-	-	158	-	210
44 x 38	-	123	-	-	-	-	-	-	-	154	-	205
44 x 36	-	121	-	-	-	-	-	-	-	152	-	202
46 x 44	-	157	-	-	-	-	-	-	-	198	-	263
46 x 42	-	154	-	-	-	-	-	-	-	194	-	258
46 x 40	-	150	-	-	-	-	-	-	-	189	-	251
46 x 38	-	148	-	-	-	-	-	-	-	185	-	246
48 x 46	-	164	-	-	-	-	-	-	-	207	-	275
48 x 44	-	161	-	-	-	-	-	-	-	203	-	270
48 x 42	-	157	-	-	-	-	-	-	-	198	-	263
48 x 40	255	155	-	-	-	-	-	-	-	194	-	258
48 x 36	242	-	-	-	-	-	-	-	-	-	-	-
48 x 32	233	-	-	-	-	-	-	-	-	-	-	-
48 x 28	226	-	-	-	-	-	-	-	-	-	-	-
48 x 24	220	-	-	-	-	-	-	-	-	-	-	-