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DIMENSIONAL STANDARD · ASME B16.11

ASME B16.11 Socket Weld Fitting Weight Chart (kg)

ASME B16.11 socket weld fitting weight chart: elbow, tee, cross, coupling and cap weights in kg for Class 3000, 6000 and 9000.

This chart gives approximate **ASME B16.11 forged socket weld fitting weights** in kilograms for 90° and 45° elbows, tees, crosses, couplings and caps in Class 3000 (SCH 80), Class 6000 (SCH 160) and Class 9000 (XXS),.

Teshi Group manufactures these fittings in India in carbon, low-temperature, alloy, stainless, duplex and nickel-alloy grades, with EN 10204 3.1 certificates.

kg Approximate weight per piece by wall schedule or class

Socket weld 90° elbow — weight (kg)

NPS	DN	SCH80/3000 kg	SCH160/6000 kg	XXS/9000 kg
1/8"	6	0.09	0.15	—
1/4"	8	0.09	0.15	—
3/8"	10	0.12	0.32	—
1/2"	15	0.26	0.4	0.85
3/4"	20	0.35	0.65	1.48
1"	25	0.49	1.25	2.2
1 1/4"	32	0.85	1.4	2.9
1 1/2"	40	1.05	2.45	3.8
2"	50	1.75	2.76	6.35
2 1/2"	65	3.8	4.8	—
3"	80	5.2	8.85	—
4"	100	11	—	—

Socket weld 45° elbow — weight (kg)

NPS	DN	SCH80/3000 kg	SCH160/6000 kg	XXS/9000 kg
1/8"	6	0.08	0.16	—
1/4"	8	0.08	0.16	—
3/8"	10	0.12	0.28	—
1/2"	15	0.22	0.3	0.78
3/4"	20	0.28	0.59	1.25
1"	25	0.43	0.9	1.85
1 1/4"	32	0.65	1.15	2.62
1 1/2"	40	0.79	2.02	3.45
2"	50	1.25	2.3	5.8

NPS	DN	SCH80/3000 kg	SCH160/6000 kg	XXS/9000 kg
2 1/2"	65	3.6	4.2	—
3"	80	5.1	6.1	—
4"	100	9.5	—	—

Socket weld equal tee — weight (kg)

NPS	DN	SCH80/3000 kg	SCH160/6000 kg	XXS/9000 kg
1/8"	6	0.13	0.22	—
1/4"	8	0.13	0.22	—
3/8"	10	0.16	0.45	—
1/2"	15	0.35	0.55	1.15
3/4"	20	0.4	0.9	1.8
1"	25	0.66	1.46	2.25
1 1/4"	32	1	1.9	3.95
1 1/2"	40	1.4	3.4	4.87
2"	50	2.2	3.7	8.89
2 1/2"	65	4	7.2	—
3"	80	6.15	10.7	—
4"	100	14.3	—	—

Socket weld equal cross — weight (kg)

NPS	DN	SCH80/3000 kg	SCH160/6000 kg	XXS/9000 kg
1/8"	6	0.15	0.21	—
1/4"	8	0.15	0.25	—
3/8"	10	0.19	0.54	—
1/2"	15	0.39	0.64	1.32
3/4"	20	0.47	1.09	2.25
1"	25	0.76	1.97	2.69
1 1/4"	32	1.19	2.34	4.38
1 1/2"	40	1.64	3.9	4.84
2"	50	2.59	4.25	10.5
2 1/2"	65	4.75	8.58	—
3"	80	7.25	12.6	—
4"	100	16.5	—	—

Socket weld coupling — weight (kg)

NPS	DN	SCH80/3000 kg	SCH160/6000 kg	XXS/9000 kg
1/8"	6	0.05	0.06	—
1/4"	8	0.06	0.07	—
3/8"	10	0.08	0.1	—
1/2"	15	0.13	0.16	0.29
3/4"	20	0.2	0.28	0.47
1"	25	0.28	0.48	0.68
1 1/4"	32	0.48	0.65	1.08
1 1/2"	40	0.52	0.84	1.12
2"	50	0.95	1.65	1.95
2 1/2"	65	1.52	2.15	—
3"	80	1.75	2.4	—
4"	100	2.8	—	—

Socket weld cap — weight (kg)

NPS	DN	SCH80/3000 kg	SCH160/6000 kg	XXS/9000 kg
1/8"	6	0.03	0.04	—
1/4"	8	0.04	0.05	—
3/8"	10	0.05	0.07	—
1/2"	15	0.08	0.13	0.23
3/4"	20	0.15	0.22	0.35
1"	25	0.22	0.34	0.52
1 1/4"	32	0.35	0.47	0.71
1 1/2"	40	0.42	0.63	0.95
2"	50	0.72	1.14	1.55
2 1/2"	65	1.25	1.72	—
3"	80	2.05	2.68	—
4"	100	3.28	—	—

Notes

- Weights are approximate net weights per piece in kg for carbon steel, for estimation, freight and packing only. For austenitic stainless steel multiply by about 1.01–1.02.
- Reference values for estimation and checking. Verify against the current edition of the standard and the purchase specification before design, purchase or fabrication.

Reference information compiled from the published standard for convenience. It does not replace the current edition of the governing standard, which takes precedence. Verify critical dimensions before design, purchase or fabrication. Teshi Engineers & Sales Promoters (P) Ltd accepts no liability for errors or omissions. Online version: https://teshigroup.com/dimensional-standards/asme-b16-11-socket-weld-fitting-weight-chart/