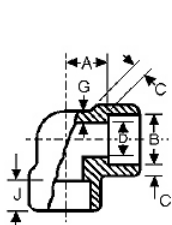
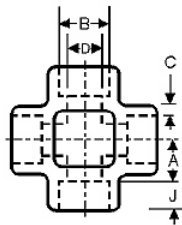


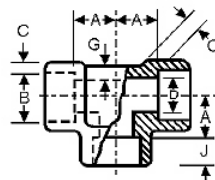
3000 lb Socket Weld Fittings - ANSI B16.11/BS 3799



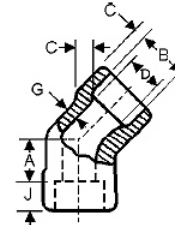
90° Elbow



Cross



Tee



45° Elbow

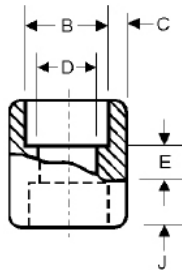
Dimensions and tolerances (based on ASME/ANSI B16.11-1991 and BS 3799:1974)

NPS	max/ave/min	Centre to Bottom of Socket				Socket Bore Diameter		Bore Diameter of Fittings		Socket Wall Thickness		Body Wall		Depth of Socket	
		90° Elbows, Tees, & Crosses		45° Elbows											
		A		A		B		D		C		G		J	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1/8	max	+0.03	12	+0.03	9	0.440	11.15	0.299	7.6	-	-	-	-	-	-
	ave	0.44	-	0.31	-	-	-	-	-	0.125	3.20	-	-	-	-
	min	-0.03	10	-0.03	7	0.420	10.65	0.239	6.1	0.125	3.20	0.095	2.40	0.38	10
1/4	max	+0.03	12	+0.03	9	0.575	14.60	0.394	10.0	-	-	-	-	-	-
	ave	0.44	-	0.31	-	-	-	-	-	0.149	3.80	-	-	-	-
	min	-0.03	10	-0.03	7	0.555	14.10	0.334	8.5	0.130	3.30	0.119	3.00	0.38	10
3/8	max	+0.06	15	+0.06	9	0.710	18.05	0.523	13.3	-	-	-	-	-	-
	ave	0.53	-	0.31	-	-	-	-	-	0.158	4.00	-	-	-	-
	min	-0.06	12	-0.06	6	0.690	17.55	0.463	11.8	0.138	3.50	0.126	3.20	0.38	10
1/2	max	+0.06	17	+0.06	13	0.875	22.20	0.652	16.6	-	-	-	-	-	-
	ave	0.62	-	0.44	-	-	-	-	-	0.184	4.65	-	-	-	-
	min	-0.06	14	-0.06	10	0.855	21.70	0.592	15.0	0.161	4.10	0.147	3.75	0.38	10
3/4	max	+0.06	21	+0.06	14	1.085	27.55	0.854	21.7	-	-	-	-	-	-
	ave	0.75	-	0.50	-	-	-	-	-	0.193	4.90	-	-	-	-
	min	-0.06	18	-0.06	11	1.065	27.05	0.794	20.2	0.168	4.25	0.154	3.90	0.50	13
1	max	+0.08	24	+0.08	16	1.350	34.30	1.079	27.4	-	-	-	-	-	-
	ave	0.88	-	0.56	-	-	-	-	-	0.224	5.70	-	-	-	-
	min	-0.08	20	-0.08	12	1.330	33.80	1.019	25.9	0.196	5.00	0.179	4.55	0.50	13
1 1/4	max	+0.08	29	+0.08	19	1.695	43.05	1.410	35.8	-	-	-	-	-	-
	ave	1.06	-	0.69	-	-	-	-	-	0.239	6.05	-	-	-	-
	min	-0.08	25	-0.08	15	1.675	42.55	1.350	34.3	0.208	5.30	0.191	4.85	0.50	13
1 1/2	max	+0.08	34	+0.08	23	1.935	49.15	1.640	41.7	-	-	-	-	-	-
	ave	1.25	-	0.81	-	-	-	-	-	0.250	6.35	-	-	-	-
	min	-0.08	30	-0.08	19	1.915	48.65	1.580	40.1	0.218	5.55	0.200	5.10	0.50	13
2	max	+0.08	40	+0.08	27	2.426	61.60	2.097	53.5	-	-	-	-	-	-
	ave	1.50	-	1.00	-	-	-	-	-	0.273	6.95	-	-	-	-
	min	-0.08	36	-0.08	23	2.406	61.10	2.037	51.7	0.238	6.05	0.218	5.55	0.62	16
2 1/2	max	+0.10	44	+0.10	31	2.931	74.45	2.529	64.2	-	-	-	-	-	-
	ave	1.62	-	1.12	-	-	-	-	-	0.345	8.75	-	-	-	-
	min	-0.10	39	-0.10	27	2.906	73.80	2.409	61.2	0.302	7.65	0.276	7.00	0.62	16
3	max	+0.10	60	+0.10	34	3.560	90.40	3.128	79.5	-	-	-	-	-	-
	ave	2.25	-	1.25	-	-	-	-	-	0.375	9.50	-	-	-	-
	min	-0.10	55	-0.10	29	3.535	89.30	3.008	46.4	0.327	8.30	0.300	7.60	0.62	16
4	max	+0.10	69	+0.10	44	4.570	116.05	4.086	103.8	-	-	-	-	-	-
	ave	2.62	-	1.62	-	-	-	-	-	0.421	10.70	-	-	-	-
	min	-0.10	64	-0.10	39	4.545	115.45	3.966	100.7	0.368	9.35	0.337	8.55	0.75	19

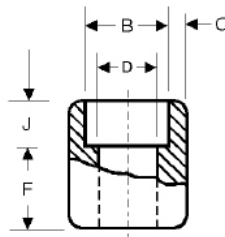
Notes

- Average socket wall thickness C around periphery shall not be less than the listed values. Minimum values are permitted in localised areas.
- Dimensions B and J are the same for Class 3000, 6000 and 9000 lb fittings.
- Dimensions and tolerances shown are as specified in ASME/ANSI B16.11-1991. These agree substantially with BS 3799:1974. Exceptions are indicated in the following note.
- BS 3799 does not cover NPS 4.

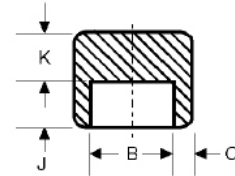
3000 lb Socket Weld Fittings - ANSI B16.11/BS 3799



Coupling



Half-Coupling



Cap

Dimensions and tolerances (based on ASME/ANSI B16.11-1991 and BS 3799:1974)

NPS	max/ave/min	Socket Bore Diameter		Bore Diameter of Fittings		Socket Wall Thickness		Depth of Socket		Laying Lengths				Cap End Wall Thickness	
		B		D		C		J		Couplings		Half		K	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1/8	max	0.440	11.15	0.299	7.6	-	-	-	-	+0.06	8	+0.03	17	-	-
	ave	-	-	-	-	0.125	3.20	-	-	0.25	-	0.62	-	-	4 ¹
	min	0.420	10.65	0.239	6.1	0.125	3.20	0.38	10	-0.06	5	-0.03	15	0.19	5.0
1/4	max	0.575	14.60	0.394	10.0	-	-	-	-	+0.06	8	+0.03	17	-	-
	ave	-	-	-	-	0.149	3.80	-	-	0.25	-	0.62	-	-	7 ¹
	min	0.555	14.10	0.334	8.5	0.130	3.30	0.38	10	-0.06	5	-0.03	15	0.19	5.0
3/8	max	0.710	18.05	0.523	13.3	-	-	-	-	+0.12	9	+0.06	19	-	-
	ave	-	-	-	-	0.158	4.00	-	-	0.25	-	0.69	-	-	7 ¹
	min	0.690	17.55	0.463	11.8	0.138	3.50	0.38	10	-0.12	3	-0.06	16	0.19	5.0
1/2	max	0.875	22.20	0.652	16.6	-	-	-	-	+0.12	13	+0.06	24	-	-
	ave	-	-	-	-	0.184	4.65	-	-	0.38	-	0.88	-	-	8 ¹
	min	0.855	21.70	0.592	15.0	0.161	4.10	0.38	10	-0.12	6	-0.06	21	0.25	6.5
3/4	max	1.085	27.55	0.854	21.7	-	-	-	-	+0.12	13	+0.06	25	-	-
	ave	-	-	-	-	0.193	4.90	-	-	0.38	-	0.94	-	-	10 ¹
	min	1.065	27.05	0.794	20.2	0.168	4.25	0.50	13	-0.12	6	-0.06	22	0.25	6.5
1	max	1.350	34.30	1.079	27.4	-	-	-	-	+0.16	17	+0.08	31	-	-
	ave	-	-	-	-	0.224	5.70	-	-	0.50	-	1.12	-	-	11 ¹
	min	1.330	33.80	1.019	25.9	0.196	5.00	0.50	13	-0.16	9	-0.08	27	0.38	9.5
1 1/4	max	1.695	43.05	1.410	35.8	-	-	-	-	+0.16	17	+0.08	32	-	-
	ave	-	-	-	-	0.239	6.05	-	-	0.50	-	1.19	-	-	13 ¹
	min	1.675	42.55	1.350	34.3	0.208	5.30	0.50	13	-0.16	9	-0.08	28	0.38	9.5
1 1/2	max	1.935	49.15	1.640	41.7	-	-	-	-	+0.16	17	+0.08	34	-	-
	ave	-	-	-	-	0.250	6.35	-	-	0.50	-	1.25	-	-	14 ¹
	min	1.915	48.65	1.580	40.1	0.218	5.55	0.50	13	-0.16	9	-0.08	30	0.44	11.0
2	max	2.426	61.60	2.097	53.5	-	-	-	-	+0.16	23	+0.08	43	-	-
	ave	-	-	-	-	0.273	6.95	-	-	0.75	-	1.62	-	-	18 ¹
	min	2.406	61.10	2.037	51.7	0.238	6.05	0.62	16	-0.16	15	-0.08	39	0.50	12.5
2 1/2	max	2.931	74.45	2.529	64.2	-	-	-	-	+0.20	24	+0.10	45	-	-
	ave	-	-	-	-	0.345	8.75	-	-	0.75	-	1.69	-	-	21 ¹
	min	2.906	73.80	2.409	61.2	0.302	7.65	0.62	16	-0.20	14	-0.10	40	0.62	16.0
3	max	3.560	90.40	3.128	79.5	-	-	-	-	+0.20	24	+0.10	47	-	-
	ave	-	-	-	-	0.375	9.50	-	-	0.75	-	1.75	-	-	24 ¹
	min	3.535	89.30	3.008	46.4	0.327	8.30	0.62	16	-0.20	14	-0.10	42	0.75	19.0
4	max	4.570	116.05	4.086	103.8	-	-	-	-	+0.20	24	+0.10	50	-	-
	ave	-	-	-	-	0.421	10.70	-	-	0.75	-	1.88	-	-	-
	min	4.545	115.45	3.966	100.7	0.368	9.35	0.75	19	-0.20	14	-0.10	45	0.88	22.0

Notes

- Average socket wall thickness C around periphery shall not be less than the listed values. Minimum values are permitted in localised areas.
- Dimensions B, J, E and F are the same for Class 3000, 6000 and 9000 lb fittings.
- Dimensions and tolerances shown are as specified in ASME/ANSI B16.11-1991. These agree substantially with BS 3799:1974. Exceptions are indicated in the following notes.
- BS 3799 does not cover NPS 4.
- 1 These values for K are BS 3799 minimum values, quoted because they differ from the ASME/ANSI B16.11 values.