MANIFEST ALLOYS

Socket Weld Fitting Dimensions

info@manifestalloys.com

+91 9930108105

www.manifestalloys.com

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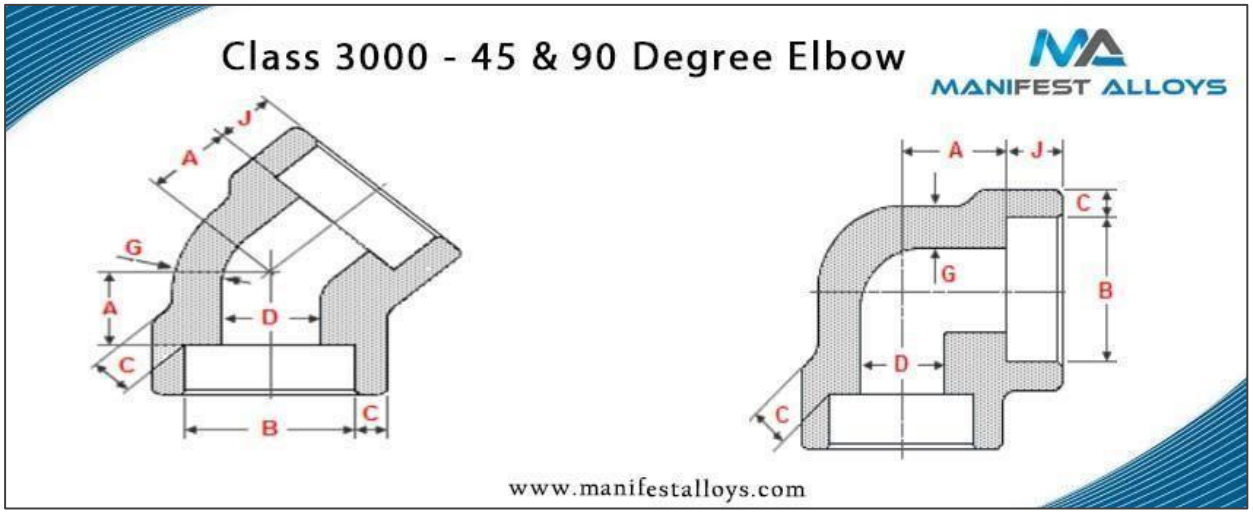
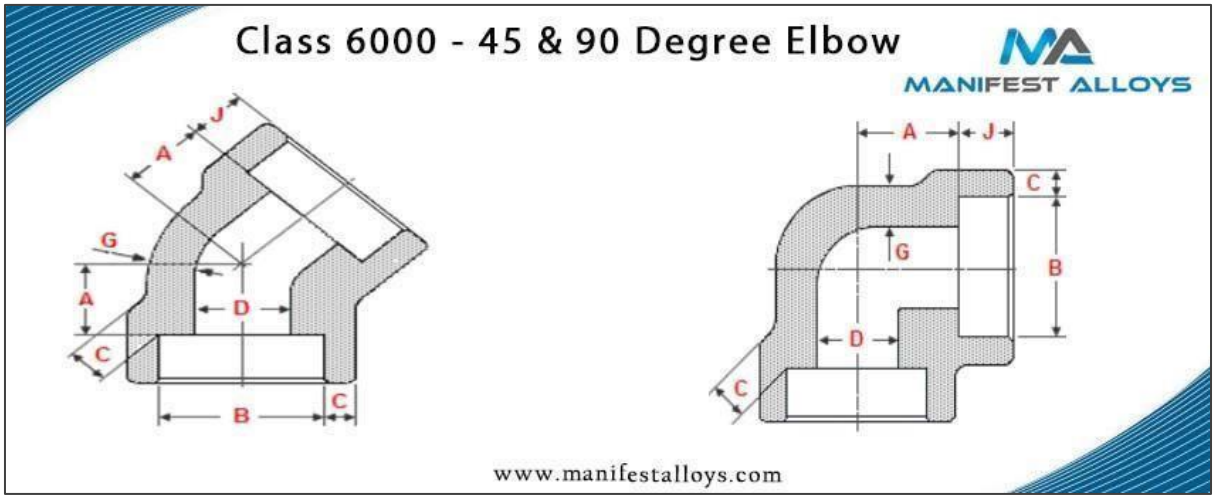


Sizes	Socket WT	Depth Socket	Bore DIA	Socket Bore	Body WT
	C	J	D	B	G
1/2"	4.10 4.65	10	15 16.6	21.70 21.95	3.75
3"	8.30 9.50	16	46.4 79.5	89.80 90.15	7.60
1"	5 5.70	13	25.9 27.4	33.80 34.05	4.55
1-1/2"	5.55 6.35	13	40.1 41.7	48.65 48.90	5.10
2-1/2"	7.65 8.75	16	61.2 64.2	73.80 74.20	7
3/4"	4.25 4.90	13	20.2 21.7	27.05 27.30	3.90
1-1/4"	5.30 6.05	13	34.3 35.8	42.55 42.80	4.85
2"	6.05 6.95	16	51.7 53.5	61.10 61.35	5.55
4"	9.35 10.70	19	100.7 103.8	115.45 115.80	8.55

Sizes	Center to bottom of socket A	
	45°	90°
1/2"	11.5	15.5
3"	31.5	57.5
1"	14	22
1-1/2"	21	32
2-1/2"	29	41.5
3/4"	12.5	19.5
1-1/4"	17	27
2"	25	38

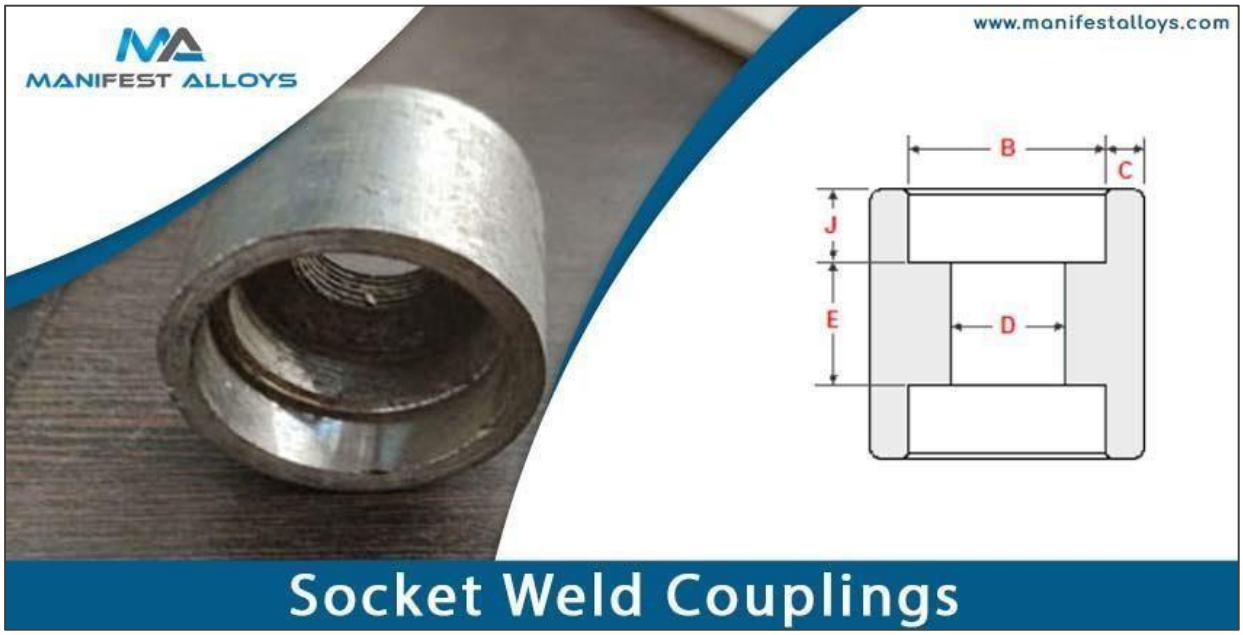


Sizes	Body WT	Socket Bore	Socket WT	Bore DIA	Depth Socket
	G	B	C	D	J
1/2"	4.80	21.70 21.95	5.20 5.95	11 12.5	10
1"	6.35	33.80 34.05	6.95 7.90	19.9 21.5	13
2"	8.75	61.10 61.35	9.50 10.90	42.1 43.6	16
1-1/2"	7.15	48.65 48.90	7.80 8.90	33.2 34.7	13
3/4"	5.55	27.05 27.30	6.05 6.95	14.8 16.3	13
1-1/4"	6.35	42.55 42.80	6.95 7.90	28.7 30.2	13

Sizes	Center to Bottom of Socket A	
	45°	90°
1/2"	12.5	19.5
2"	29	41
1"	17	27
1-1/2"	25	38
3/4"	14.5	22.5
1-1/4"	21	32

MANIFEST ALLOYS

SW Coupling Dimensions



Size's	Bore DIA	Depth Socket	Socket Bore	Socket wall THK
	D	J	B	C
1/2"	15 16.6	10	21.70 21.95	4.10 4.65
3/4"	20.2 21.7	13	27.05 27.30	4.25 4.90
1"	25.9 27.4	13	33.80 34.05	5 5.70
1-1/4"	34.3 35.8	13	42.55 42.80	5.30 6.05
1-1/2"	40.1 41.7	13	48.65 48.90	5.55 6.35
2"	51.7 53.5	16	61.10 61.35	6.05 6.95
2-1/2"	61.2 64.2	16	73.80 74.20	7.65 8.75

Sizes	Laying lengths	
	Coupling E	Coupling Half F
1/2"	9.5	22.5
3"	19	44.5
1"	13	29
1-1/2"	13	32
2-1/2"	19	42.5
3/4"	9.5	23.5
1-1/4"	13	30
2"	19	41
4"	19	47.5

Socket 6000 Weld Couplings Dimensions

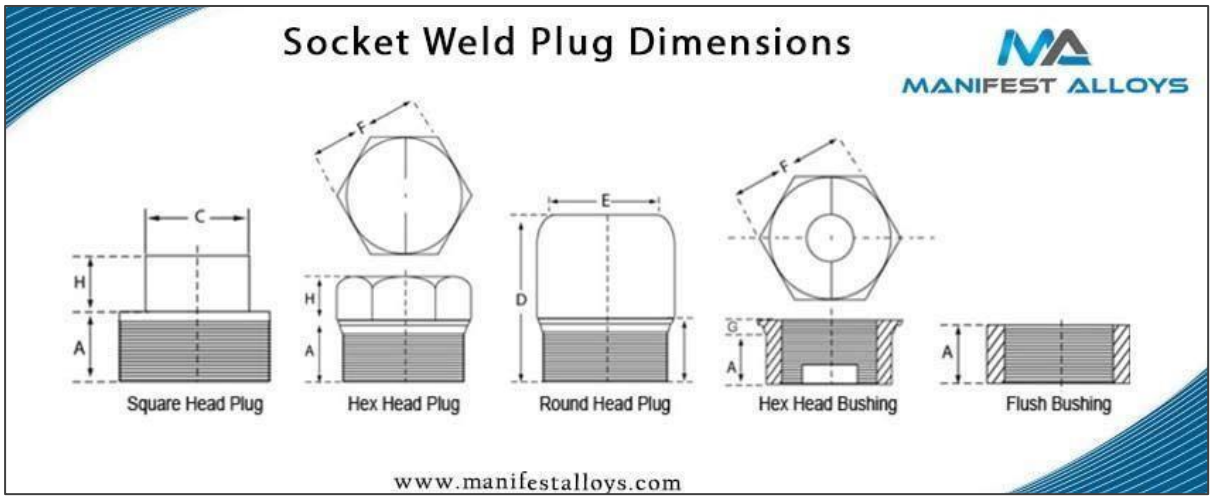
Sizes	Bore DIA	Depth Socket	Socket Bore	Socket wall THK
	D	J	B	C
1/2"	11 12.5	10	21.70 21.95	5.20 5.95
3/4"	14.8 16.3	13	27.05 27.30	6.05 6.95
1"	19.9 21.5	13	33.80 34.05	6.95 7.90
1-1/4"	28.7 30.2	13	42.55 42.80	6.95 7.90
1-1/2"	33.2 34.7	13	48.65 48.90	7.80 8.90
2"	42.1 43.6	16	61.10 61.35	9.50 10.90

Sizes	Laying lengths	
	Half coupling F	Coupling E
1/2"	22.5	9.5
2"	41	19
1"	29	13
1-1/2"	32	13
3/4"	23.5	9.5
1-1/4"	30	13

Socket Weld Fittings Weight Chart

Size's	Tee	Half Coupling		45 Degree Elbow	90 Deg Elbow		45 Deg Elbow
	3000#	6000#	3000#	3000#	3000#	2000#	3000#
3/8"	0.26	0.19	0.06	0.17	0.26	0.15	0.19
3/4"	0.72	0.48	0.22	0.46	0.66	0.41	0.52
11/4"	1.85	1.14	0.79	1.19	1.67	1.10	1.32
4"	19.40	11.46	7.05	12.47	17.35	11.44	13.86
3"	12.12	6.61	3.52	7.78	10.84	7.14	8.66
1/2"	0.44	0.35	0.15	0.28	0.41	0.26	0.33
1"	1.16	0.97	0.46	0.74	1.05	0.68	0.83
1-1/2"	2.97	2.09	1.14	1.89	2.66	1.74	2.11
2-1/2"	7.58	4.40	2.53	4.87	6.79	4.47	5.42

Socket Weld Plug Dimensions



Sizes	Length (Min) A	Plug Square Head		Plug Round Head		Bushing & Hex Plugs		
		Width Flats (Min) C	Height of Square (Min) B	Length (Min) D	Nominal Dia. of Head E	Width Flats F	Hex height (Min.)	
							Plug H	Bushing G
1/8"	9.7	7.1	6.6	35.1	10.4	11.2	6.4	-
3/8"	12.7	11.2	7.9	41.1	17.5	17.5	7.9	4.1
3/4"	15.7	15.7	11.2	44.5	26.9	26.9	9.7	5.6
1-1/4"	20.6	23.9	14.2	50.8	42.9	44.5	14.2	7.1
2"	22.4	33.3	17.5	63.5	60.5	63.5	17.5	8,6
3"	28.4	42.9	20.6	69.9	88.9	88.9	20.6	10.4
1/4"	11.2	9.7	6.6	41.1	13.5	15.7	6.4	3.0
1/2"	14.2	14.2	9.7	44.5	21.3	22.4	7.9	4.8
1"	19.1	20.6	12.7	50.8	33.3	35.1	9.7	6.4

MANIFEST ALLOYS

Class 3000 Socket Weld Fittings Pressure Rating

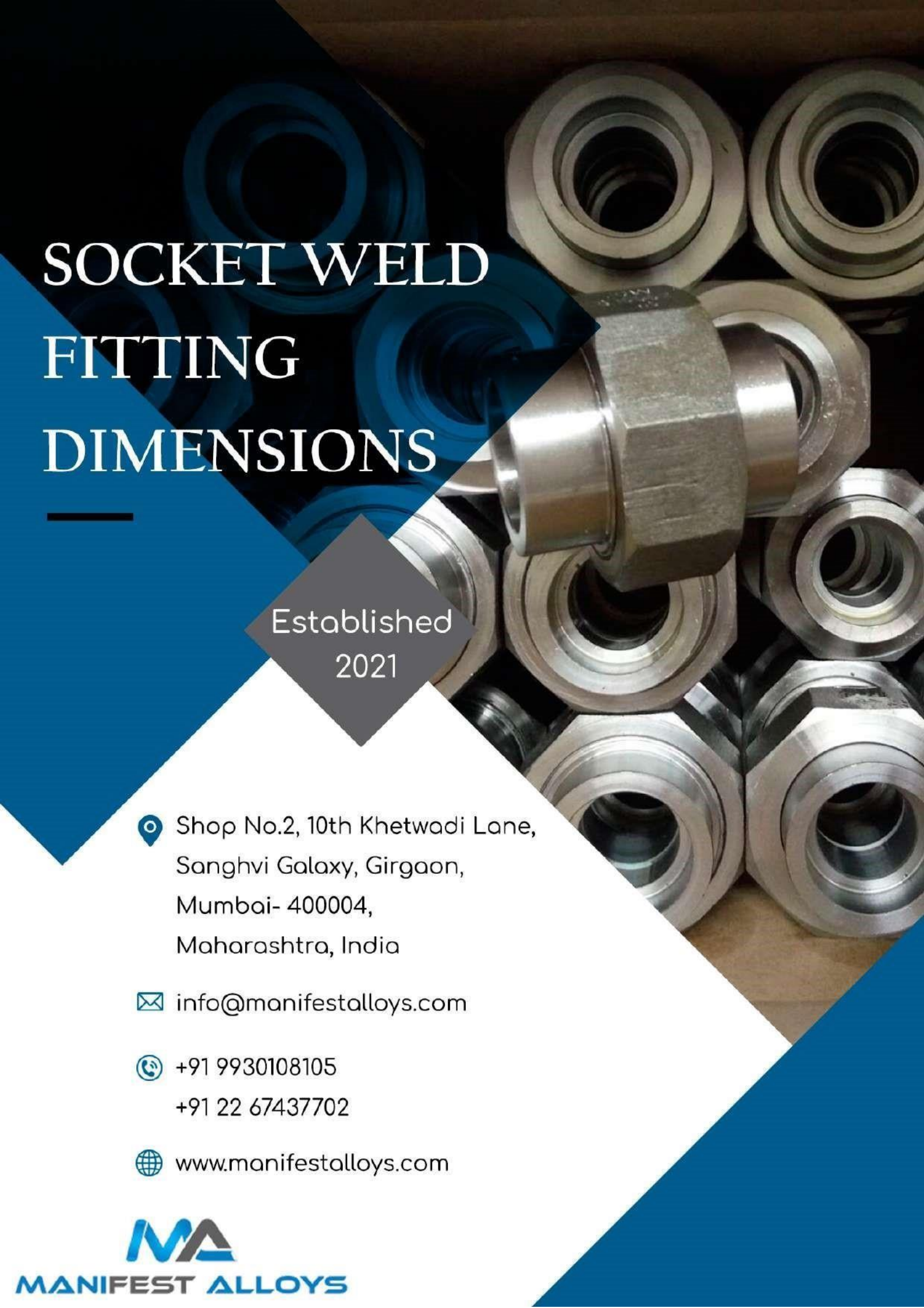
Temperature	Class 3000 Threaded Fittings & Socket Welding		
	F316	F304	ASTM A105
100°F	3000	2570	3000
800°F	1865	1370	1525
200°F	2975	2170	2875
300°F	2775	1870	2775
500°F	2460	1650	2460
700°F	1960	1425	1775
150°F	2915	2280	2915
250°F	2845	2055	2845
400°F	2605	1715	2605
600°F	2150	1535	2150

Socket Weld Elbow Weight Chart

Sizes		Socket Wall Thickness (C)		Bore Fitting Dia (D)		Bore Socket Dia (B)		Bottom Center of socket (A)		Depth Socket (J)	Body Wall Thickness (G)	Weight in Kg	
MM	Inch	Min	Avg	Max	Min	Max	Min	45° Elbow	90° Elbow	Min	Min	45° Elbow	90° Elbow
6	1/8"	3.18	3.18	7.6	6.1	11.2	10.8	8	11	9.5	2.41	0.100	0.113
10	3/8"	3.50	4.01	13.3	11.8	18	17.6	8	13.5	9.5	3.20	0.100	0.118
20	3/4"	4.27	4.90	21.7	20.2	27.6	27.2	13	19	12.5	3.91	0.318	0.340
32	11/4"	5.28	6.07	35.8	34.3	43.1	42.7	17.5	27	12.5	4.85	0.630	0.689
50	2"	6.04	6.93	53.3	51.7	61.7	61.2	25.5	38	16	5.54	1.343	1.529
80	3"	8.30	9.52	79.4	76.4	90.3	89.8	32	57	16	7.62	3.878	5.026
8	1/4"	3.30	3.78	10	8.5	14.6	14.2	8	11	9.5	3.02	0.086	0.095

Socket Weld Fittings HSN Code

Products	HSN Code
Socket weld fittings	7307



SOCKET WELD FITTING DIMENSIONS

Established
2021

Shop No.2, 10th Khetwadi Lane,
Sanghvi Galaxy, Girgaon,
Mumbai- 400004,
Maharashtra, India

info@manifestalloys.com

+91 9930108105
+91 22 67437702

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