



EAST METAL 

MALAYSIA
BUTTWELD FITTINGS



ABOUT EAST METAL

East Metal (Malaysia) Sdn. Bhd is a Malaysian company, fabricator and exporter of wide range of carbon steel butt Weld fittings globally. We have developed diverse range of fittings of many grades of materials for various applications.

East Metal (EM) quality can be seen to its finished products. A well established and stringent quality control applied to all aspects of production processes.

EM uses advanced methods to analyze the materials from raw materials to finish products. Our brand is marked on each products (EM) logo, size, A234 WPB, SCH40, Heat No.....



CARBON STEEL BUTT WELD FITTINGS

Technical Specifications

APPLICABLE STANDARDS

East Metal butt-welding fitting are manufactured, in accordance with ANSI standards B16.9, B16.28 for dimensions, shapes and dimensional tolerances. East Metal butt-welding fittings are machined in accordance with ANSI B16.25 standards for welding end preparation. Manufacturing methods, quality and so on are based upon ASTM A234 and MSS-SP-25 specifications.

ANSI Standards

B16.9 Wrought Steel Butt-Welding Fittings.

B16.28 Wrought Steel Butt-Welding Short Radius Elbows and Returns.

B16.25 Butt-Welding Ends.

B16.11 Forged Steel Fittings, Socket-Welding and Threaded.

B36.10 Welded and Seamless Wrought Steel Pipe.

Inspection Procedures

East Metal butt-weld fittings are subjected to strict in-process inspection at each stage of the production process - from raw materials handling to finished product shipping. Visually examined for conformity, tested under the applicable ASTM, ANSI, ASME, and MSS standards. Butt-welding fittings are manufactured in conformity with the following standards.

The following other inspections are performed if required.

Ultrasonic Examination

Magnetic Particle Examinations

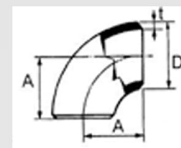
Radiographic Examination

Ultrasonic Thickness Meter



EAST METAL

ELBOW 90 DEG. LONG RADIUS
 ASTM A - 234 WPB (EQ. BS 1640) DIMENSIONS AS PER ANSI B16.9



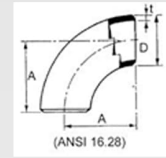
DIMENSIONS & WEIGHTS

Nominal Pipe Size	Outside Diameter D	Wall Thickness		Center to End A	Weight (Kg)	
		Standard t	Extra Strong t		Standard	Extra Strong
1/2	21,30	2,80	3,70	38,10	0,08	0,10
3/4	26,70	2,90	3,90	38,10	0,09	0,11
1	33,40	3,38	4,55	38,10	0,15	0,20
1 1/4	42,16	3,56	4,85	47,62	0,26	0,35
1 1/2	48,26	3,68	5,08	57,15	0,38	0,51
2	60,32	3,91	5,54	76,20	0,68	0,94
2 1/2	73,02	5,16	7,01	95,25	1,35	1,79
3	88,90	5,49	7,62	114,30	2,15	2,87
4	114,30	6,02	8,56	152,40	4,10	5,65
5	141,30	6,55	9,52	190,50	6,85	9,70
6	168,27	7,11	10,97	228,60	10,65	16,00
8	219,07	8,18	12,70	304,80	21,30	32,20
10	273,05	9,27	12,70	381,00	37,60	50,80
12	323,85	9,52	12,70	457,20	55,80	73,40
14	355,60	9,52	12,70	533,40	71,60	94,30
16	406,40	9,52	12,70	609,60	93,80	123,70
18	457,20	9,52	12,70	685,80	118,00	159,00
20	508,00	9,52	12,70	762,00	147,00	195,00
22	558,80	9,52	12,70	838,20	196,00	226,00
24	609,60	9,52	12,70	914,40	211,00	281,00
26	660,40	9,52	12,70	990,60	244,50	323,40
28	711,20	9,52	12,70	1066,80	308,00	385,00
30	762,00	9,52	12,70	1143,00	326,60	452,30
32	812,80	9,52	12,70	1219,20	386,00	511,00
34	863,60	9,52	12,70	1295,40	420,00	557,60
36	914,40	9,52	12,70	1371,60	471,70	626,00
38	965	9,52	12,70	1447,80	544,00	717,00
40	1016	9,52	12,70	1524,00	590,00	794,00
42	1067	9,52	12,70	1600,20	644,10	852,70
44	1118	9,52	12,70	1676,40	726,00	975,00
46	1168	9,52	12,70	1752,60	816,00	1055,00
48	1219	9,52	12,70	1828,80	907,00	1134,00

ELBOW 90 DEG. SHORT RADIUS

ASTM A - 234 WPB (EQ. BS 1640) DIMENSIONS AS PER ANSI B16.9

DIMENSIONS & WEIGHTS

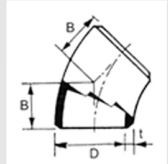


Nominal Pipe Size	Outside Diameter D	Wall Thickness		Center to End A	Weight (Kg)	
		Standard t	Extra Strong t		Standard	Extra Strong
1	33,40	3,38	4,55	25,40	0,11	0,14
1 1/4	42,16	3,56	4,85	31,75	0,18	0,23
1 1/2	48,26	3,68	5,08	38,10	0,25	0,34
2	60,32	3,91	5,54	50,80	0,45	0,62
2 1/2	73,02	5,16	7,01	63,50	0,89	1,19
3	88,90	5,49	7,62	76,20	1,40	1,90
4	114,30	6,02	8,56	101,60	2,66	3,71
5	141,30	6,55	9,52	127,00	4,55	6,44
6	168,27	7,11	10,97	152,40	7,02	10,58
8	219,07	8,18	12,70	203,20	14,22	21,61
10	273,05	9,27	12,70	254,00	25,23	34,06
12	323,85	9,52	12,70	304,80	36,86	48,60
14	355,60	9,52	12,70	355,80	47,56	62,97
16	406,40	9,52	12,70	406,40	62,50	82,45
18	457,20	9,52	12,70	457,20	74,90	97,60
20	508,00	9,52	12,70	508,00	105,50	140,50
24	609,60	9,52	12,70	609,60	134,00	177,00

EAST METAL

ELBOW 45 DEG.

ASTM A - 234 WPB (EQ. BS 1640) DIMENSIONS AS PER ANSI B16.9

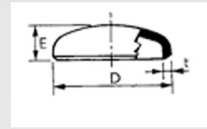


DIMENSIONS & WEIGHTS

Nominal Pipe Size	Outside Diameter D	Wall Thickness		Center to End B	Weight (Kg)	
		Standard t	Extra Strong t		Standard	Extra Strong
1/2	21,30	2,80	3,70	15,70	0,04	0,05
3/4	26,70	2,90	3,90	11,20	0,05	0,06
1	33,40	3,38	4,55	22,22	0,08	0,10
1 1/4	42,16	3,56	4,85	25,40	0,13	0,18
1 1/2	48,26	3,68	5,08	28,57	0,19	0,26
2	60,32	3,91	5,54	34,92	0,34	0,47
2 1/2	73,02	5,16	7,01	44,45	0,67	0,89
3	88,90	5,49	7,62	50,80	1,08	1,44
4	114,30	6,02	8,56	63,50	2,05	2,83
5	141,30	6,55	9,52	70,37	3,43	4,85
6	168,27	7,11	10,97	95,25	5,33	8,02
8	219,07	8,18	12,70	127,00	10,65	16,10
10	273,05	9,27	12,70	158,75	18,80	25,40
12	323,85	9,52	12,70	190,50	27,90	36,70
14	355,60	9,52	12,70	222,25	35,80	47,15
16	406,40	9,52	12,70	254,00	46,90	62,06
18	457,20	9,52	12,70	285,75	59,00	79,50
20	508,00	9,52	12,70	317,50	73,50	97,50
22	558,80	9,52	12,70	342,90	98,00	113,00
24	609,60	9,52	12,70	381,00	105,50	140,50
26	660	9,52	12,70	406,40	122,25	192,50
28	711	9,52	12,70	438,20	154,00	192,50
30	762	9,52	12,70	469,90	163,30	226,15
32	813	9,52	12,70	501,70	193,00	255,50
34	864	9,52	12,70	533,40	210,00	278,95
36	914	9,52	12,70	565,20	235,85	313,00
38	965	9,52	12,70	600,10	272,00	358,50
40	1016	9,52	12,70	631,80	295,00	397,00
42	1067	9,52	12,70	660,40	322,05	426,35
44	1118	9,52	12,70	695,30	363,00	487,50
46	1168	9,52	12,70	727,10	408,00	527,50
48	1219	9,52	12,70	758,80	453,50	567,00

CAP

ASTM A - 234 WPB (EQ. BS 1640) DIMENSIONS AS PER ANSI B16.9

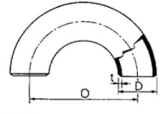


DIMENSIONS & WEIGHTS

Nominal Pipe Size	Outside Diameter D	Wall Thickness		Length E	Weight (Kg)	
		Standard t	Extra Strong t		Standard	Extra Strong
1/2	21,34	2,77	3,73	25,40	0,03	0,04
1/2	26,67	2,87	3,91	25,40	0,06	0,08
1	33,40	3,38	4,55	38,10	0,10	0,12
1 1/2	42,16	3,56	4,85	38,10	0,14	0,18
1 1/2	48,26	3,68	5,08	38,10	0,16	0,22
2	60,32	3,91	5,54	38,10	0,23	0,32
2 1/2	73,02	5,16	7,01	38,10	0,37	0,47
3	88,90	5,49	7,62	50,80	0,65	0,85
4	114,30	6,02	8,56	63,50	1,15	1,58
5	141,30	6,55	9,52	76,20	1,90	2,65
6	168,27	7,11	10,97	88,90	2,92	4,30
8	219,07	8,18	12,70	101,60	5,07	7,60
10	273,05	9,27	12,70	127,00	9,10	12,00
12	323,85	9,52	12,70	152,40	13,40	17,20
14	355,60	9,52	12,70	165,10	16,10	20,50
16	406,40	9,52	12,70	177,80	20,30	26,20
18	457,20	9,52	12,70	203,20	26,00	33,50
20	508,00	9,52	12,70	228,60	32,20	42,60
22	558,80	9,52	12,70	254,00	42,00	51,00
24	609,60	9,52	12,70	266,70	46,20	59,40
26	660,40	9,52	12,70	266,70	49,80	66,10
28	711,20	9,52	12,70	266,70	56,00	74,80
30	762	9,52	12,70	266,70	62,00	82,80
32	812,80	9,52	12,70	266,70	68,00	93,40
34	863,6	9,52	12,70	266,70	72,60	96,60
36	914,40	9,52	12,70	266,70	79,40	107,00
38	965,20	9,52	12,70	304,80	86,20	124,70
40	1016	9,52	12,70	304,80	95,30	129,30
42	1066,80	9,52	12,70	304,80	104,00	136,00
44	1117,60	9,52	12,70	342,90	120,20	167,80
46	1168,40	9,52	12,70	342,90	136,00	186,00
48	1219,50	9,52	12,70	342,90	159,00	215,50

EAST METAL

180 DEG. RETURN BEND LONG RADIUS
 ASTM A - 234 WPB (EQ. BS 1640) DIMENSIONS AS PER ANSI B16.9

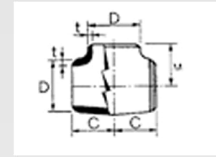


DIMENSIONS & WEIGHTS

Nominal Pipe Size	Outside Diameter D	Wall Thickness		Center to Center O	Weight (Kg)	
		Standard t	Extra Strong t		Standard	Extra Strong
1	33,40	3,38	4,56	76,20	0,30	0,41
1 1/4	42,16	3,56	4,85	95,24	0,53	0,70
1 1/2	48,26	3,68	5,08	114,30	0,76	1,00
2	60,32	3,91	5,54	152,40	1,40	1,90
2 1/2	73,02	5,16	7,01	190,50	2,70	3,60
3	88,90	5,49	7,62	228,60	4,26	5,75
4	114,30	6,02	8,56	304,80	8,10	11,30
5	141,30	6,56	9,52	381,00	13,70	19,47
6	168,27	7,11	10,97	457,20	21,30	32,00
8	219,07	8,18	12,70	609,60	42,60	64,80
10	273,05	9,27	12,70	762,00	75,70	101,40
12	323,85	9,52	12,70	914,40	111,00	146,80
14	355,60	9,52	12,70	1066,80	143,20	188,60
16	406,40	9,52	12,70	1219,20	187,60	247,40
18	457,20	9,52	12,70	1371,60	236,00	318,00
20	508,00	9,52	12,70	1524,00	294,00	390,00
22	558,00	9,52	12,70	1676,40	350,00	463,00
24	609,60	9,52	12,70	1828,80	422,00	562,00

EQUAL TEE

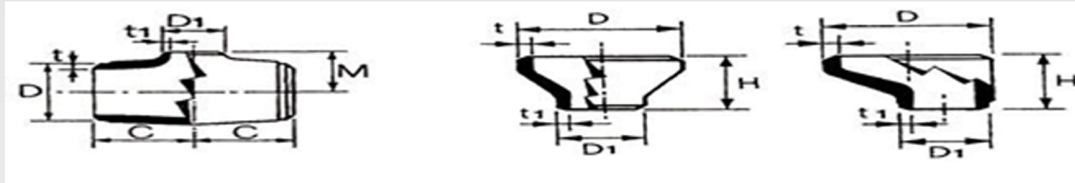
ASTM A - 234 WPB (EQ. BS 1640) DIMENSIONS AS PER ANSI B16.9



DIMENSIONS & WEIGHTS

Nominal Pipe Size	Outside Diameter D	Wall Thickness		Center to End C	Center to End M	Weight (Kg)	
		Standard t	Extra Strong t			Standard	Extra Strong
1/2	21,34	2,77	3,73	25,40	25,40	0,15	0,21
3/4	26,27	2,87	3,91	28,57	28,57	0,20	0,27
1	33,40	3,38	4,55	38,10	38,10	0,40	0,82
1 1/4	42,16	3,56	4,85	47,62	47,62	0,77	0,86
1 1/2	48,26	3,68	5,08	57,15	57,15	1,08	1,22
2	60,32	3,91	5,54	63,50	63,50	1,48	1,86
2 1/2	73,02	5,16	7,01	76,20	76,20	2,45	3,07
3	88,90	5,49	7,62	85,72	85,72	3,80	4,29
4	114,30	6,02	8,56	104,77	104,77	5,90	7,24
5	141,30	6,55	9,52	123,82	123,82	9,50	12,95
6	168,27	7,11	10,97	142,87	142,87	14,90	19,25
8	219,07	8,18	12,70	177,80	177,80	27,18	34,42
10	273,05	9,27	12,70	215,90	215,90	41,30	58,40
12	323,85	9,52	12,70	254,00	254,00	56,60	79,30
14	355,60	9,52	12,70	279,40	279,40	81,54	117,78
16	406,40	9,52	12,70	304,80	304,80	99,66	142,69
18	457	9,52	12,70	343	343	126,80	170,00
20	508	9,52	12,70	381	381	168,00	245,00
24	610	9,52	12,70	432	432	240,00	340,00
26	660	9,52	12,70	495	495	268,00	350,00
28	711	9,52	12,70	521	521	308,00	390,00
30	762	9,52	12,70	559	559	347,00	448,00
32	813	9,52	12,70	597	597	406,00	520,00
34	864	9,52	12,70	635	635	452,00	570,00
36	914	9,52	12,70	673	673	505,00	649,00
38	965	9,52	12,70	711	711	569,00	727,00
40	1016	9,52	12,70	749	749	627,00	792,00
42	1067	9,52	12,70	762	711	659,00	836,00
44	1118	9,52	12,70	813	762	724,00	925,00
46	1168	9,52	12,70	851	800	780,00	995,00
48	1219	9,52	12,70	889	838	847,00	1080,00

REDUCING TEE, CONCENTRIC REDUCER & ECCENTRIC REDUCER
 ASTM A - 234 WPB (EQ. BS 1640) DIMENSIONS AS PER ANSI B16.9



Nominal Pipe Size	Outside Diameter D	Outside Diameter D1	Center to End C	Center to End M	Length H	Weight (Kg)			
						Standard Tees		Standard Red	
1/2 x 1/4	21,34	13,70	25,40	25,40	-	0,16	--	0,25	--
1/2 x 3/8	21,34	17,10	25,40	25,40	-	0,16	--	0,25	--
3/4 x 3/8	26,67	17,10	28,57	28,57	38,10	0,23	0,07	0,38	0,10
3/4 x 1/2	26,67	21,34	28,57	28,57	38,10	0,22	0,07	0,24	0,10
1 x 1/2	33,40	21,34	38,10	38,10	50,80	0,45	0,10	0,68	0,15
1 x 3/4	33,40	26,67	38,10	38,10	50,80	0,45	0,10	0,68	0,15
1 1/4 x 1/2	42,16	21,34	47,62	47,62	50,80	0,68	0,15	0,81	0,20
1 1/4 x 3/4	42,16	26,67	47,62	47,62	50,80	0,68	0,15	0,81	0,20
1 1/4 x 1	42,16	33,40	47,62	47,62	50,80	0,70	0,15	0,83	0,20
1 1/2 x 1/2	48,26	21,34	57,15	57,15	63,50	0,86	0,25	1,13	0,32
1 1/2 x 3/4	48,26	26,67	57,15	57,15	63,50	0,91	0,27	1,13	0,33
1 1/2 x 1	48,26	33,40	57,15	57,15	63,50	0,95	0,27	1,17	0,35
1 1/2 x 1 1/4	48,26	42,16	57,15	57,15	63,50	0,99	0,29	1,22	0,35
2 x 3/4	60,32	26,67	63,50	44,45	76,20	1,13	0,40	1,49	0,50
2 x 1	60,32	33,40	63,50	50,80	76,20	1,17	0,40	1,54	0,50
2 x 1 1/4	60,32	42,16	63,50	57,15	76,20	1,26	0,43	1,58	0,52
2 x 1 1/2	60,32	48,26	63,50	60,32	76,20	1,35	0,45	1,63	0,54
2 1/2 x 1	73,02	33,40	76,20	57,15	88,90	2,00	0,68	2,44	0,84
2 1/2 x 1 1/4	73,02	42,16	76,20	63,50	88,90	2,12	0,68	2,49	0,84
2 1/2 x 1 1/2	73,02	48,26	76,20	66,67	88,90	2,25	0,72	2,55	0,91
2 1/2 x 2	73,02	60,32	76,20	69,85	88,90	2,35	0,77	2,62	0,97
3 x 1 1/4	88,90	42,16	85,72	69,85	88,90	2,89	0,86	3,40	1,18
3 x 1 1/2	88,90	48,26	85,72	73,02	88,90	2,98	0,90	3,48	1,23
3 x 2	88,90	60,32	85,72	76,20	88,90	3,01	0,96	3,62	1,26
3 x 2 1/2	88,90	73,02	85,72	82,55	88,90	3,17	1,04	3,73	1,39
3 1/2 x 3	101,6	88,9	95,3	92,1	101,6	3,72	1,38	4,68	1,85
3 1/2 x 2 1/2	101,6	73,0	95,3	88,9	101,6	3,65	1,33	4,6	1,84
3 1/2 x 2	101,6	60,3	95,3	82,6	101,6	3,3	1,29	4,16	1,8
3 1/2 x 1 1/2	101,6	48,3	95,3	79,4	101,6	3,23	1,25	4,07	1,75

Nominal Pipe Size	Outside Dia- meter D	Outside Dia- meter D1	Center to End C	Center to End M	Length H	Weight (Kg)			
						Standard		Standard	
						Tees	Red	Tees	Red
4 x 1/2	114,30	48,26	104,77	85,72	101,60	4,30	1,54	5,88	2,04
4 x 2	114,30	60,32	104,77	88,90	101,60	4,57	1,63	6,11	2,13
4 x 2 1/2	114,30	73,02	104,77	95,25	101,60	4,80	1,72	6,11	2,20
4 x 3	114,30	88,90	104,77	98,42	101,60	4,98	1,77	6,34	2,26
4 x 3 1/2	114,3	101,6	104,8	101,6	101,6	5,2	1,64	6,08	2,3
5 x 2	141,3	60,3	123,8	104,8	127	7,2	2,58	10,08	3,2
5 x 2 1/2	141,30	73,02	123,82	107,95	127,00	7,33	2,66	10,64	3,27
5 x 3	141,30	88,90	123,82	111,12	127,00	7,56	2,72	10,96	3,49
5 x 3 1/2	141,3	101,6	123,8	114,3	127	8,05	2,72	11,24	3,6
5 x 4	141,30	114,30	123,82	117,47	127,00	8,15	2,81	11,77	3,71
6 x 2 1/2	168,27	73,02	142,87	120,65	139,70	12,32	3,71	15,85	5,17
6 x 3	168,27	88,90	142,87	123,82	139,70	12,45	3,80	16,16	5,39
6 x 3 1/2	168,3	101,6	142,9	127	139,70	12,6	3,93	17,36	5,55
6 x 4	168,27	114,30	142,87	130,17	139,70	12,91	3,94	16,76	5,62
6 x 5	168,27	141,30	142,87	136,50	139,70	13,13	4,03	17,20	5,84
8 x 3	219,07	88,90	177,80	152,40	152,40	23,50	6,46	30,00	7,20
8 x 3 1/2	219,1	101,6	177,8	152,4	152,4	22,96	6,56	32,33	8,13
8 x 4	219,07	114,30	177,80	155,57	152,40	22,42	5,62	30,12	9,06
8 x 5	219,07	141,30	177,80	161,92	152,40	23,10	5,84	30,80	9,36
8 x 6	219,07	168,27	177,80	168,27	152,40	23,80	6,34	31,71	9,76
10 x 4	273,1	114,3	215,9	184,2	177,8	33,85	10,1	47,72	13
10 x 5	273,05	141,30	215,90	190,50	177,80	33,79	10,19	46,20	13,50
10 x 6	273,05	168,27	215,90	193,67	177,80	34,65	10,42	47,86	14,04
10 x 8	273,05	219,07	215,90	203,20	177,80	35,33	10,69	48,92	14,45
12 x 5	323,85	141,30	254,00	215,90	203,20	45,75	14,50	63,40	18,91
12 x 6	323,85	168,27	254,00	219,07	203,20	47,11	14,72	66,59	19,39
12 x 8	323,85	219,07	254,00	228,60	203,20	48,92	14,95	69,76	10,80
12 x 10	323,85	273,05	254,00	241,30	203,20	50,14	15,40	72,45	20,38
14 x 6	355,6	168,3	279,4	238,1	330,2	72,35	26,1	78,14	35
14 x 8	355,60	219,07	279,40	247,65	330,20	74,75	26,27	104,19	35,10
14 x 10	355,60	273,05	279,40	257,17	330,20	76,59	75,88	107,81	35,56
14 x 12	355,60	323,85	279,40	269,67	330,20	77,01	26,52	112,79	35,83
16 x 6	406,4	168,3	304,8	263,5	-	84,32	-	118	-
16 x 8	402,40	219,07	304,80	273,05	355,60	87,88	32,39	126,84	42,67
16 x 10	406,40	273,05	304,80	282,57	355,60	90,60	32,84	130,00	43,26
16 x 12	406,40	323,85	304,80	295,27	355,60	95,27	35,80	92,86	43,49



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