



**SC MECHANICAL
SUPPLIES SDN BHD** (643117-U)

SGP PIPE FITTINGS



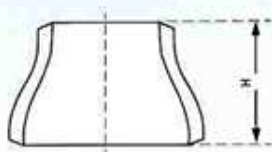
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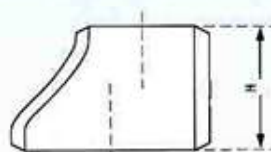
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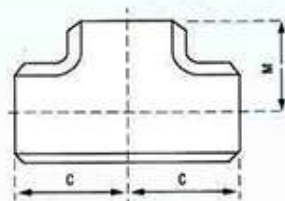
NOMINAL PIPE SIZE		APPROXIMATE WEIGHT		NOMINAL PIPE SIZE		APPROXIMATE WEIGHT	
		CON REDUCER	REDUCER TEE			CON REDUCER	REDUCER TEE
(MM)	(INCHE)	(KG)	(KG)	(KG)	(KG)	(KG)	(KG)
20 X 15	3/4" X 1/2"	0.05	0.10	150 X 125	6" X 5"	2.22	5.61
25 X 20	1" X 3/4"	0.10	0.19	150 X 100	6" X 4"	2.05	5.42
25 X 15	1" X 1/2"	0.09	0.19	150 X 80	6" X 3"	1.90	5.23
32 X 25	1 1/4" X 1"	0.13	0.34	150 X 65	6" X 2 1/2"	1.82	5.16
32 X 20	1 1/4" X 3/4"	0.12	0.32	200 X 150	8" X 6"	3.63	10.35
32 X 15	1 1/4" X 1/2"	0.11	-	200 X 125	8" X 5"	3.37	10.01
40 X 32	1 1/2" X 1 1/4"	0.20	0.48	200 X 100	8" X 4"	3.19	9.83
40 X 25	1 1/2" X 1"	0.18	0.46	250 X 200	10" X 8"	5.98	17.75
40 X 20	1 1/2" X 3/4"	0.17	0.44	250 X 150	10" X 6"	5.50	16.97
50 X 40	2" X 1 1/2"	0.31	0.69	250 X 125	10" X 5"	5.27	16.70
50 X 32	2" X 1 1/4"	0.30	0.67	300 X 250	12" X 10"	8.67	26.45
50 X 25	2" X 1"	0.27	0.63	300 X 200	12" X 8"	8.08	25.23
50 X 20	2" X 3/4"	0.25	-	300 X 150	12" X 6"	7.56	24.45
65 X 50	2 1/2" X 2"	0.52	1.14	300 X 125	12" X 5"	7.30	-
65 X 40	2 1/2" X 1 1/2"	0.47	1.09	350 X 300	14" X 12"	18.44	37.15
65 X 32	2 1/2" X 1 1/4"	0.45	1.06	350 X 250	14" X 10"	17.14	35.84
65 X 25	2 1/2" X 1"	0.42	-	350 X 200	14" X 8"	15.92	34.80
80 X 65	3" X 2 1/2"	0.63	1.56	400 X 350	16" X 14"	22.53	47.15
80 X 50	3" X 2"	0.57	1.46	400 X 300	16" X 12"	21.49	45.41
80 X 40	3" X 1 1/2"	0.53	1.41	400 X 250	16" X 10"	20.18	44.11
80 X 32	3" X 1 1/4"	0.51	-	450 X 400	18" X 16"	27.41	59.07
100 X 80	4" X 3"	0.96	2.54	450 X 350	18" X 14"	25.93	58.20
100 X 65	4" X 2 1/2"	0.90	2.46	450 X 300	18" X 12"	24.97	56.46
100 X 50	4" X 2"	0.84	2.37	500 X 450	20" X 18"	34.80	73.25
125 X 100	5" X 4"	1.51	3.74	500 X 400	20" X 16"	32.71	71.43
125 X 80	5" X 3"	1.37	3.55	500 X 350	20" X 14"	30.71	70.56
125 X 65	5" X 2 1/2"	1.31	3.48	600 X 500	24" X 20"	47.68	99.18
125 X 50	5" X 2"	-	3.39	600 X 450	24" X 18"	45.76	96.57



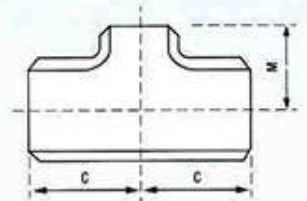
Concentric Reducer



Eccentric Reducer



Equal Tee



Reducing Tee



90° Elbow (Long)



90° Elbow (Short)



45° ELBOW



Cap



Reducer (Concentric)



Reducer (Eccentric)



Equal Tee



T (Reducing)

NOMINAL PIPE SIZE		APPROXIMATE WEIGHT			
		ELBOW	45° ELBOW	END CAPS	TEE
(MM)	(INCHE)	(KG)	(KG)	(KG)	(KG)
15	1/2"	0.068	0.034	0.026	0.074
20	3/4"	0.087	0.044	0.035	0.104
25	1"	0.127	0.064	0.090	0.205
32	1 1/4"	0.219	0.110	0.123	0.358
40	1 1/2"	0.305	0.152	0.141	0.499
50	2"	0.552	0.276	0.198	0.740
65	2 1/2"	0.974	0.487	0.295	1.235
80	3"	1.375	0.687	0.441	1.627
100	4"	2.532	1.266	0.763	2.723
125	5"	3.906	1.953	1.122	3.941
150	6"	6.168	3.084	1.731	5.951
200	8"	12.528	6.264	3.141	11.136
250	10"	22.098	11.049	5.507	18.966
300	12"	33.147	16.574	8.204	27.840
350	14"	49.329	24.665	11.484	38.889
400	16"	64.641	32.321	14.442	48.024
450	18"	81.954	40.977	18.444	60.900
500	20"	101.790	50.895	22.968	75.342
600	24"	146.160	73.080	31.842	100.920

Dimensional Tolerances

JIS B2311

(in mm)

Item	Type of Pipe Fitting	Nominal Diameter				
		1/2-2 1/2	3-4	5-8	10-18	20
Outside Dia. at End Face	All Pipe Fitting	±2	±2.5	±3.5	±5	±7
Inside Dia. at End Face		±2	±2.5	±3.5	±5	±7
Wall Thickness		±Not Specified -15%				
Centre-to-end Dimension	90° Elbow 45° Elbow	±3		±5		
Centre-to-centre Dimension	180° Elbow	±8		±12		-
Back-to face Dimension		±8				-
Alignment of Ends (Max.)		2		4		-
End-to end Dimension	Reducer	±3		±5		
Centre-to-end Dimension	T	±3		±5		
Back-to face Dimension	Cap	±5		±8		

Item	Type of Pipe Fitting	Nominal Diameter							
		1/2-4	5-8	10-12	14-16	18-24	26-30	32-42	44-48
Off Angle (X)	All Pipe Fitting	0.8	1.6	2.4		3.6	4.8		
Off Plane (Y)		1.6	3.2	4.8	6.4	9.5		12.7	19.1

ANSI B16.9, B16.28

(in mm)

All Fittings				90° & 45° Elbow	Tees	Reducers	Caps	180° Fittings		
Nominal Pipe Size	Outside Diameter at Bevel OD	Inside Diameter at End ID	Wall Thickness T	Center-to-End Dimension A, B	Center-to-End Dimension C, M	Overall Length H	Overall Length E	Center-to-Center Dimension P	Back-to-Face Dimension K	Alignment of Ends U
1/2-2 1/2	+1.5 -0.7	±0.7	Not less than 87-1/2% of nominal thickness	±1.5	±1.5	±1.5	±3.0	±6.3	±6.3	±0.7
3-4	±1.5	±1.5								
5-8	+2.0 -1.5	±1.5		±2.2	±2.2	±2.2	±6.3	±9.6	±0.7	
15-18	+4.0 -3.5	±3.0		±3.0	±3.0	±4.8	±9.6	-	-	-
20-24	+6.3 -4.8	±4.8		±4.8	±4.8					
26-30										
32-48										

Nominal Pipe Size	Angularity Tolerance	
	Off Angle X	Off Plane Y
1/2-4	0.7	1.5
5-8	1.5	3.0
10-12	2.2	4.8
14-16		6.3
18-24	3.0	9.6
26-30	4.8	
32-42		19.0
44-48		

