

ASK

Brochure



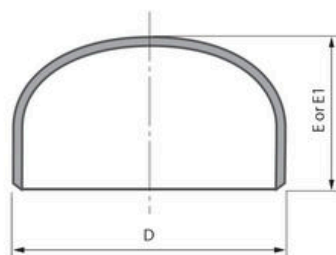
ASME 管継手の厚さ / WALL THICKNESS

Nominal Pipe Size		Outside Diameter		Nominal Wall Thickness							
				Carbon & Alloy Steel							
				ASME B36.10M							
DN	NPS	(inch)	(mm)	STD	XS	XXS	Sch10	Sch20	Sch30	Sch40	Sch60
15	1/2	0.840	21.3	2.77	3.73	7.47	2.11	-	2.41	2.77	-
20	3/4	1.050	26.7	2.87	3.91	7.82	2.11	-	2.41	2.87	-
25	1	1.315	33.4	3.38	4.55	9.09	2.77	-	2.90	3.38	-
32	1-1/4	1.660	42.2	3.56	4.85	9.70	2.77	-	2.97	3.56	-
40	1-1/2	1.900	48.3	3.68	5.08	10.15	2.77	-	3.18	3.68	-
50	2	2.375	60.3	3.91	5.54	11.07	2.77	-	3.18	3.91	-
65	2-1/2	2.875	73.0	5.16	7.01	14.02	3.05	-	4.78	5.16	-
80	3	3.500	88.9	5.49	7.62	15.24	3.05	-	4.78	5.49	-
90	3-1/2	4.000	101.6	5.74	8.08	-	3.05	-	4.78	5.74	-
100	4	4.500	114.3	6.02	8.56	17.12	3.05	-	4.78	6.02	-
125	5	5.563	141.3	6.55	9.53	19.05	3.40	-	-	6.55	-
150	6	6.625	168.3	7.11	10.97	21.95	3.40	-	-	7.11	-
200	8	8.625	219.1	8.18	12.70	22.23	3.76	6.35	7.04	8.18	10.31
250	10	10.750	273.0	9.27	12.70	25.40	4.19	6.35	7.80	9.27	12.70
300	12	12.750	323.8	9.53	12.70	25.40	4.57	6.35	8.38	10.31	14.27
350	14	14.000	355.6	9.53	12.70	-	6.35	7.92	9.53	11.13	15.09
400	16	16.000	406.4	9.53	12.70	-	6.35	7.92	9.53	12.70	16.66
450	18	18.000	457	9.53	12.70	-	6.35	7.92	11.13	14.27	19.05
500	20	20.000	508	9.53	12.70	-	6.35	9.53	12.70	15.09	20.62
550	22	22.000	559	9.53	12.70	-	6.35	9.53	12.70	-	22.23
600	24	24.000	610	9.53	12.70	-	6.35	9.53	14.27	17.48	24.61
650	26	26.000	660	9.53	12.70	-	7.92	12.70	-	-	-
700	28	28.000	711	9.53	12.70	-	7.92	12.70	15.88	-	-
750	30	30.000	762	9.53	12.70	-	7.92	12.70	15.88	-	-
800	32	32.000	813	9.53	12.70	-	7.92	12.70	15.88	17.48	-
850	34	34.000	864	9.53	12.70	-	7.92	12.70	15.88	17.48	-
900	36	36.000	914	9.53	12.70	-	7.92	12.70	15.88	19.05	-
950	38	38.000	965	9.53	12.70	-	-	-	-	-	-
1000	40	40.000	1016	9.53	12.70	-	-	-	-	-	-
1050	42	42.000	1067	9.53	12.70	-	-	-	-	-	-
1100	44	44.000	1118	9.53	12.70	-	-	-	-	-	-
1150	46	46.000	1168	9.53	12.70	-	-	-	-	-	-
1200	48	48.000	1219	9.53	12.70	-	-	-	-	-	-

Unit : mm

										Outside Diameter		Nominal Pipe Size	
					Stainless Steel								
					ASME B36.19M								
	Sch80	Sch100	Sch120	Sch140	Sch160	Sch5S	Sch10S	Sch40S	Sch80S	(inch)	(mm)	DN	NPS
	3.73	-	-	-	4.78	1.65	2.11	2.77	3.73	0.840	21.3	15	1/2
	3.91	-	-	-	5.56	1.65	2.11	2.87	3.91	1.050	26.7	20	3/4
	4.55	-	-	-	6.35	1.65	2.77	3.38	4.55	1.315	33.4	25	1
	4.85	-	-	-	6.35	1.65	2.77	3.56	4.85	1.660	42.2	32	1-1/4
	5.08	-	-	-	7.14	1.65	2.77	3.68	5.08	1.900	48.3	40	1-1/2
	5.54	-	-	-	8.74	1.65	2.77	3.91	5.54	2.375	60.3	50	2
	7.01	-	-	-	9.53	2.11	3.05	5.16	7.01	2.875	73.0	65	2-1/2
	7.62	-	-	-	11.13	2.11	3.05	5.49	7.62	3.500	88.9	80	3
	8.08	-	-	-	-	2.11	3.05	5.74	8.08	4.000	101.6	90	3-1/2
	8.56	-	11.13	-	13.49	2.11	3.05	6.02	8.56	4.500	114.3	100	4
	9.53	-	12.70	-	15.88	2.77	3.40	6.55	9.53	5.563	141.3	125	5
	10.97	-	14.27	-	18.26	2.77	3.40	7.11	10.97	6.625	168.3	150	6
	12.70	15.09	18.26	20.62	23.01	2.77	3.76	8.18	12.70	8.625	219.1	200	8
	15.09	18.26	21.44	25.40	28.58	3.40	4.19	9.27	12.70	10.750	273.0	250	10
	17.48	21.44	25.40	28.58	33.32	3.96	4.57	9.53	12.70	12.750	323.8	300	12
	19.05	23.83	27.79	31.75	35.71	3.96	4.78	9.53	12.70	14.000	355.6	350	14
	21.44	26.19	30.96	36.53	40.49	4.19	4.78	9.53	12.70	16.000	406.4	400	16
	23.83	29.36	34.93	39.67	45.24	4.19	4.78	9.53	12.70	18.000	457	450	18
	26.19	32.54	38.10	44.45	50.01	4.78	5.54	9.53	12.70	20.000	508	500	20
	28.58	34.93	41.28	47.63	53.98	4.78	5.54	-	-	22.000	559	550	22
	30.96	38.89	46.02	52.37	59.54	5.54	6.35	9.53	12.70	24.000	610	600	24
	-	-	-	-	-	-	-	-	-	26.000	660	650	26
	-	-	-	-	-	-	-	-	-	28.000	711	700	28
	-	-	-	-	-	6.35	7.92	-	-	30.000	762	750	30
	-	-	-	-	-	-	-	-	-	32.000	813	800	32
	-	-	-	-	-	-	-	-	-	34.000	864	850	34
	-	-	-	-	-	-	-	-	-	36.000	914	900	36
	-	-	-	-	-	-	-	-	-	38.000	965	950	38
	-	-	-	-	-	-	-	-	-	40.000	1016	1000	40
	-	-	-	-	-	-	-	-	-	42.000	1067	1050	42
	-	-	-	-	-	-	-	-	-	44.000	1118	1100	44
	-	-	-	-	-	-	-	-	-	46.000	1168	1150	46
	-	-	-	-	-	-	-	-	-	48.000	1219	1200	48

ASME キャップの形状・寸法・重量 / DIMENSIONS OF CAP



CAP



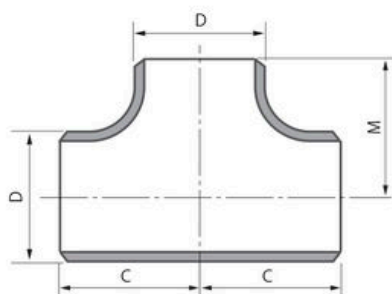
ASME B 16.9

Nominal Pipe Size (NPS)	Dimensions (Unit:mm)				Carbon & Alloy Steel Weight (Unit:kg)										Stainless Steel Weight (Unit:kg)			
	Outside Diameter at Bevel	Length (1)	Limiting wall Thickness For Length	Length (2)														
	D	E	E	E1	STD	XS	XXS	S40	S80	S120	S160	S10	S20	S30	S10S	S40S	S80S	S160
1/2	21.3	25	4.57	25	0.100	0.150	-	0.100	0.150	-	0.220	-	-	-	0.078	0.100	0.150	-
3/4	26.7	25	3.81	25	0.100	0.150	-	0.100	0.150	-	0.220	-	-	-	0.078	0.100	0.150	-
1	33.4	38	4.57	38	0.109	0.165	-	0.109	0.165	-	0.230	-	-	-	0.090	0.110	0.167	-
1-1/4	42.2	38	4.83	38	0.145	0.197	-	0.145	0.197	-	0.260	-	-	-	0.110	0.146	0.199	-
1-1/2	48.3	38	5.08	38	0.171	0.236	-	0.171	0.236	-	0.340	-	-	-	0.130	0.172	0.238	-
2	60.3	38	5.59	44	0.234	0.330	-	0.234	0.330	-	0.520	-	-	-	0.170	0.240	0.330	1.550
2-1/2	73.0	38	7.11	51	0.420	0.565	-	0.420	0.565	-	0.770	-	-	-	0.245	0.420	0.565	2.840
3	88.9	51	7.62	64	0.664	0.917	-	0.664	0.917	-	1.350	-	-	-	0.365	0.670	0.917	3.780
3-1/2	101.6	64	8.13	76	0.958	1.360	-	0.958	1.360	-	-	-	-	-	-	-	-	-
4	114.3	64	8.64	76	1.170	1.680	-	1.170	1.680	2.680	2.520	-	-	-	0.591	1.180	1.680	6.780
5	141.3	76	9.65	89	1.900	2.730	-	1.900	2.730	4.350	4.100	-	-	-	0.990	1.920	2.730	10.70
6	168.3	89	10.92	102	2.830	4.380	-	2.830	4.380	6.280	6.580	-	-	-	1.370	2.850	4.380	17.95
8	219.1	102	12.70	127	5.110	7.910	-	5.110	7.910	13.20	16.70	-	5.190	5.190	2.520	5.160	7.910	-
10	273.0	127	12.70	152	8.920	12.20	-	8.920	16.40	23.30	33.40	-	6.330	9.150	3.870	9.000	13.80	-
12	323.8	152	12.70	178	13.00	17.40	-	14.10	26.40	38.60	50.60	-	9.430	13.30	6.890	13.20	19.50	-
14	355.6	165	12.70	191	15.90	21.20	-	18.60	34.90	51.10	65.60	16.60	13.20	15.90	-	-	-	-
16	406.4	178	12.70	203	20.00	26.70	-	26.70	49.00	70.80	92.80	21.20	16.60	20.00	-	-	-	-
18	457.0	203	12.70	229	25.50	34.10	-	41.50	69.00	101.0	131.0	31.90	21.20	25.60	-	-	-	-
20	508.0	229	12.70	254	31.80	42.50	-	54.10	93.80	136.0	179.0	31.90	31.90	50.40	-	-	-	-
22	559.0	254	12.70	254	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	610.0	267	12.70	305	45.10	60.10	-	89.70	160.0	237.0	306.0	45.10	45.10	82.70	-	-	-	-

NOTES:

- (1) Length E applies for thickness not exceeding that given in column "Limiting Wall Thickness for Length E".
- (2) Length E1 applies for thickness greater than that given in column "Limiting Wall Thickness" for NPS24 and smaller.

ASME 同径Tの形状・寸法・重量 / DIMENSIONS OF STRAIGHT TEE

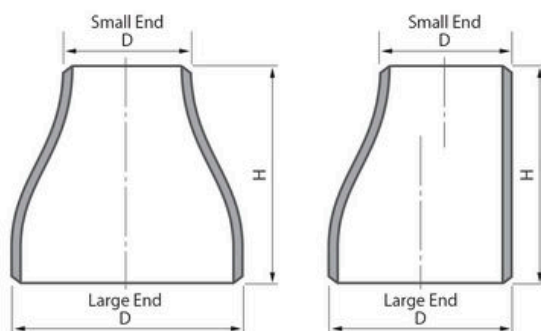


STRAIGHT TEE



ASME B 16.9

Nominal Pipe Size (NPS)	Dimensions (Unit:mm)			Carbon & Alloy Steel Weight (Unit:kg)													Stainless Steel Weight (Unit:kg)			
	Outside Diameter at Bevel	Center - to - End																		
		Run	Outlet																	
	D	C	M	STD	XS	XXS	S40	S80	S120	S160	S10	S20	S30	S60	S100	S140	S10S	S40S	S80S	S160
1/2	21.3	25	25	0.102	0.118	0.170	0.102	0.118	-	0.139	-	-	-	-	-	-	0.100	0.120	0.120	0.150
3/4	26.7	29	29	0.136	0.180	0.250	0.136	0.180	-	0.211	-	-	-	-	-	-	0.140	0.170	0.190	0.220
1	33.4	38	38	0.300	0.388	0.544	0.300	0.388	-	0.424	-	-	-	-	-	-	0.310	0.350	0.390	0.430
1-1/4	42.2	48	48	0.500	0.686	0.959	0.500	0.686	-	0.696	-	-	-	-	-	-	0.470	0.640	0.690	0.700
1-1/2	48.3	57	57	0.720	0.990	1.620	0.720	0.990	-	1.230	-	-	-	-	-	-	0.680	0.850	1.000	1.240
2	60.3	64	64	1.070	1.430	2.450	1.070	1.430	-	2.070	-	-	-	-	-	-	0.850	1.130	1.440	2.080
2-1/2	73.0	76	76	2.070	2.760	4.590	2.070	2.760	-	3.420	-	-	-	-	-	-	1.360	2.090	2.790	3.450
3	88.9	86	86	2.860	3.530	6.450	2.860	3.530	-	4.540	-	-	-	-	-	-	1.800	3.020	3.500	4.590
3-1/2	101.6	95	95	3.630	5.070	8.200	3.630	5.070	-	6.550	-	-	-	-	-	-	2.120	3.600	5.440	-
4	114.3	105	105	4.830	6.330	11.10	4.830	6.330	8.010	9.260	-	-	-	-	-	-	2.900	5.160	6.390	9.350
5	141.3	124	124	7.720	10.00	18.10	7.720	10.00	13.30	15.70	-	-	-	-	-	-	4.480	7.600	10.10	15.90
6	168.3	143	143	11.20	16.80	27.50	11.20	16.80	19.70	23.90	-	11.20	-	-	-	-	6.210	11.92	16.90	23.30
8	219.1	178	178	20.50	30.00	47.00	20.50	30.00	39.20	47.00	-	20.50	20.50	24.30	32.40	42.10	11.70	20.30	30.30	-
10	273.0	216	216	36.60	44.10	82.20	36.60	51.00	72.10	90.20	-	36.60	36.60	44.10	61.40	82.20	18.00	35.20	44.20	-
12	323.8	254	254	48.60	69.50	107.0	50.20	95.80	111.0	147.0	-	48.60	48.60	78.20	93.70	113.0	23.70	45.80	70.80	-
14	355.6	279	279	66.40	81.50	-	71.20	129.0	202.0	260.0	66.40	66.40	66.40	129.0	202.0	260.0	28.60	64.00	-	-
16	406.4	305	305	71.30	110.0	-	110.0	173.0	277.0	354.0	71.30	71.30	71.30	173.0	277.0	354.0	35.20	90.00	-	-
18	457.0	343	343	131.0	145.0	-	156.0	253.0	396.0	501.0	131.0	131.0	145.0	-	-	-	-	-	-	-
20	508.0	381	381	173.0	175.0	-	204.0	353.0	535.0	684.0	173.0	173.0	175.0	-	-	-	-	-	-	-
22	559.0	419	419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	610.0	432	432	274.0	300.0	-	343.0	597.0	863.0	1090	274.0	274.0	348.0	-	-	-	-	-	-	-

ASME レジューサの形状・寸法・重量 / DIMENSIONS OF REDUCER


REDUCER

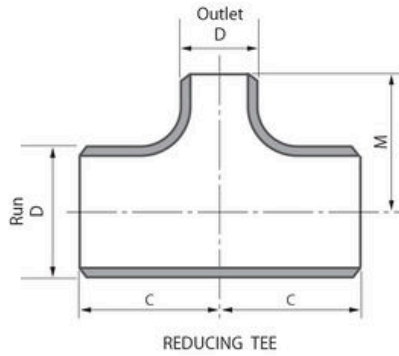


ASME B 16.9

Nominal Pipe Size (NPS)	Dimensions (Unit:mm)			Carbon & Alloy Steel Weight (Unit:kg)												Stainless Steel Weight (Unit:kg)			
	Outside Diameter		End - to - End																
	Large End	Small End																	
	D	D		H	STD	XS	XXS	S40	S80	S120	S160	S10	S20	S30	S100	S10S	S40S	S80S	S160
3/4 x 1/2	26.7	21.3	38	0.059	0.075	-	0.059	0.075	-	0.150	-	-	-	-	-	0.070	0.090	0.100	0.110
1 x 3/4	33.4	26.7	51	0.116	0.147	0.246	0.116	0.147	-	0.200	-	-	-	-	-	0.100	0.120	0.148	0.200
x 1/2		21.3		0.105	0.133	0.215	0.105	0.133	-	0.190	-	-	-	-	-	0.100	0.120	0.134	0.180
1-1/4 x 1	42.2	33.4	51	0.157	0.195	0.350	0.195	0.206	-	0.257	-	-	-	-	-	0.130	0.160	0.208	0.260
x 3/4		26.7		0.155	0.187	0.310	0.187	0.200	-	0.232	-	-	-	-	-	0.130	0.160	0.189	0.235
x 1/2		21.3		0.150	0.171	0.279	0.171	0.190	-	0.211	-	-	-	-	-	0.130	0.160	0.173	0.215
1-1/2 x 1-1/4	48.3	42.2	64	0.275	0.324	0.567	0.275	0.324	-	0.429	-	-	-	-	-	0.190	0.250	0.327	0.433
x 1		33.4		0.260	0.300	0.500	0.260	0.300	-	0.382	-	-	-	-	-	0.190	0.250	0.294	0.385
x 3/4		26.7		0.250	0.290	0.449	0.250	0.290	-	0.379	-	-	-	-	-	0.190	0.250	0.270	0.383
x 1/2		21.3		0.250	0.290	0.407	0.250	0.290	-	0.319	-	-	-	-	-	0.190	0.250	0.250	0.322
2 x 1-1/2	60.3	48.3	76	0.400	0.590	0.909	0.400	0.590	-	0.780	-	-	-	-	-	0.280	0.380	0.513	0.760
x 1-1/4		42.2		0.400	0.500	0.851	0.400	0.500	-	0.740	-	-	-	-	-	0.280	0.380	0.484	0.710
x 1		33.4		0.390	0.480	0.765	0.390	0.480	-	0.700	-	-	-	-	-	0.280	0.380	0.442	0.650
x 3/4		26.7		0.390	0.480	0.699	0.390	0.480	-	0.650	-	-	-	-	-	0.280	0.380	0.410	0.590
x 1/2		-		0.380	0.470	0.500	0.380	0.470	-	0.600	-	-	-	-	-	0.280	0.380	0.400	0.560
2-1/2 x 2	73.0	60.3	89	0.724	0.946	1.680	0.724	0.946	-	1.230	-	-	-	-	-	0.440	0.730	0.956	1.240
x 1-1/2		48.3		0.661	0.900	1.510	0.661	0.900	-	1.120	-	-	-	-	-	0.440	0.670	0.870	1.130
x 1-1/4		42.2		0.630	0.860	1.420	0.630	0.860	-	1.060	-	-	-	-	-	0.440	0.640	0.828	1.070
x 1		33.4		0.630	0.830	1.300	0.630	0.830	-	0.977	-	-	-	-	-	0.440	0.590	0.768	0.990
x 3/4		-		-	-	-	-	-	-	-	-	-	-	-	-	0.280	0.380	0.410	0.590
3 x 2-1/2	88.9	73.0	89	1.000	1.250	2.250	1.000	1.250	-	1.750	-	-	-	-	-	0.530	0.950	1.260	1.770
x 2		60.3		0.960	1.200	2.010	0.960	1.200	-	1.570	-	-	-	-	-	0.530	0.860	1.140	1.590
x 1-1/2		48.3		0.900	1.150	1.830	0.900	1.150	-	1.490	-	-	-	-	-	0.530	0.790	1.050	1.450
x 1-1/4		42.2		0.840	1.100	1.750	0.840	1.100	-	1.400	-	-	-	-	-	0.530	0.760	1.000	1.390
x 1		26.7		0.800	1.000	1.600	0.800	1.000	-	1.300	-	-	-	-	-	0.530	0.760	0.960	1.350
3-1/2 x 3	101.6	88.9	102	1.280	1.770	2.800	1.280	1.770	-	2.640	-	-	-	-	-	0.700	0.920	1.290	-
x 2-1/2		73.0		1.230	1.650	2.760	1.230	1.650	-	2.450	-	-	-	-	-	0.700	0.920	1.240	-
x 2		60.3		1.100	1.510	2.540	1.100	1.510	-	2.210	-	-	-	-	-	0.700	0.920	1.110	-
x 1-1/2		48.3		1.020	1.410	2.400	1.020	1.410	-	2.050	-	-	-	-	-	0.700	0.920	1.030	-
x 1-1/4		42.2		0.988	1.350	2.350	0.988	1.350	-	2.100	-	-	-	-	-	0.700	0.920	1.000	-
4 x 3-1/2	114.3	101.6	102	1.550	2.200	3.760	1.600	2.200	-	3.250	-	-	-	-	-	0.800	1.470	2.040	3.040
x 3		88.9		1.550	2.150	3.650	1.600	2.150	-	3.100	-	-	-	-	-	0.800	1.470	2.040	3.040
x 2-1/2		73.0		1.470	2.100	3.410	1.470	2.100	-	3.000	-	-	-	-	-	0.800	1.390	1.920	2.850
x 2		60.3		1.400	2.000	3.110	1.400	2.000	-	2.900	-	-	-	-	-	0.800	1.290	1.780	2.620
x 1-1/2		48.3		1.350	1.950	2.900	1.350	1.950	-	2.800	-	-	-	-	-	0.800	1.200	1.670	2.440
x 1-1/4		42.2		1.300	-	-	-	-	-	-	-	-	-	-	-	0.780	1.170	1.640	2.400
x 1		33.5		1.300	-	-	-	-	-	-	-	-	-	-	-	0.770	1.160	1.620	2.380

ASME B 16.9

Nominal Pipe Size (NPS)	Dimensions (Unit:mm)			Carbon & Alloy Steel Weight (Unit:kg)												Stainless Steel Weight (Unit:kg)			
	Outside Diameter		End - to - End																
	Large End	Small End																	
				D	D	H	STD	XS	XXS	S40	S80	S120	S160	S10	S20	S30	S100	S10S	S40S
5 x 4	141.3	114.3	127	2.800	3.720	6.470	2.800	3.720	4.570	5.700	-	-	-	-	1.490	2.550	3.550	5.630	
x 3-1/2		101.6		2.800	3.720	6.200	2.800	3.720	-	5.700	-	-	-	-	1.490	2.550	3.550	5.630	
x 3		88.9		2.760	3.700	5.780	2.760	3.700	-	5.650	-	-	-	-	1.450	2.300	3.210	5.050	
x 2-1/2		73.0		2.600	3.350	5.460	2.600	3.350	-	5.200	-	-	-	-	1.400	2.190	3.050	4.780	
x 2		60.3		2.470	3.200	5.300	2.470	3.200	-	5.000	-	-	-	-	1.300	2.050	2.860	4.440	
6 x 5	168.3	141.3	140	5.000	5.780	9.890	3.800	5.780	6.830	8.450	-	-	-	-	2.020	3.650	5.430	8.530	
x 4		114.3		3.800	5.500	8.980	3.800	5.500	6.280	7.750	-	-	-	-	1.950	3.350	5.010	7.830	
x 3-1/2		101.6		3.750	5.300	8.400	3.750	5.300	-	7.410	-	-	-	-	1.950	3.350	5.010	7.830	
x 3		88.9		3.700	5.160	8.210	3.700	5.160	-	7.080	-	-	-	-	1.820	3.070	4.610	7.150	
x 2-1/2		73.0		3.480	5.000	7.830	3.480	5.000	-	6.750	-	-	-	-	1.750	2.950	4.400	6.820	
x 2		60.3		3.400	-	-	-	-	-	-	-	-	-	-	1.700	2.920	4.300	6.700	
8 x 6	219.1	168.3	152	6.650	9.250	15.40	6.650	9.250	12.80	14.70	-	6.650	-	-	3.190	5.800	8.750	-	
x 5		141.3		6.400	8.900	14.50	6.400	8.900	12.20	13.80	-	6.400	-	-	3.080	5.550	8.250	-	
x 4		114.3		6.000	8.500	13.60	6.000	8.500	11.60	12.90	-	6.000	-	-	3.010	5.170	7.800	-	
x 3-1/2		101.6		5.200	7.800	-	5.200	7.800	-	12.60	-	5.200	-	-	3.010	5.170	7.800	-	
x 3		88.9		5.200	7.800	-	-	-	-	-	-	-	-	-	2.900	5.000	7.400	-	
10 x 8	273.0	219.1	178	11.20	13.70	25.00	11.20	15.70	21.30	27.00	-	11.20	11.20	21.30	5.200	9.700	12.90	-	
x 6		168.3		10.90	13.50	22.70	10.90	14.60	19.30	24.50	-	10.90	-	19.30	5.000	8.900	12.30	-	
x 5		141.3		10.00	13.00	21.50	10.00	14.10	18.10	23.30	-	10.00	-	18.10	4.890	8.600	11.60	-	
x 4		114.3		9.800	12.70	20.50	9.800	13.80	17.30	22.10	-	9.800	-	17.30	4.800	8.300	11.40	-	
12 x 10	323.8	273.0	203	14.00	19.00	34.50	15.90	23.00	34.00	43.60	-	14.00	14.00	34.00	7.980	13.80	18.20	-	
x 8		219.1		13.80	17.80	32.20	15.80	21.00	31.70	40.30	-	13.80	13.80	31.70	7.620	12.90	16.80	-	
x 6		168.3		13.60	17.20	30.00	15.70	18.60	29.40	37.20	-	13.60	-	29.40	7.430	12.10	15.70	-	
x 5		141.3		13.00	16.00	28.70	15.20	18.00	28.30	35.70	-	13.00	-	28.30	7.250	11.80	15.00	-	
14 x 12	355.6	323.8	330	25.40	31.00	-	29.50	49.30	70.10	87.70	-	25.40	25.40	-	-	-	-	-	
x 10		273.0		23.60	29.40	-	28.40	45.70	64.70	80.90	-	23.60	23.60	-	-	-	-	-	
x 8		219.1		23.00	29.00	-	27.40	44.20	59.70	74.30	-	23.00	23.00	-	-	-	-	-	
x 6		168.3		21.00	27.60	-	25.40	40.00	54.80	67.90	-	21.00	-	-	-	-	-	-	
16 x 14	406.4	355.6	356	31.00	43.00	-	43.00	69.80	95.00	121.0	31.00	31.00	43.00	-	-	-	-	-	
x 12		323.8		29.60	42.50	-	42.50	66.50	90.40	115.0	-	29.60	42.50	-	-	-	-	-	
x 10		273.0		27.80	42.00	-	42.00	62.30	84.40	107.0	-	27.80	42.00	-	-	-	-	-	
x 8		219.1		24.80	38.00	-	38.00	55.40	78.60	99.50	-	24.80	38.00	-	-	-	-	-	
18 x 16	457	406.4	381	51.00	68.20	-	76.00	126.0	130.0	164.0	51.00	51.00	68.20	-	-	-	-	-	
x 14		355.6		49.00	65.50	-	73.00	121.0	123.0	155.0	49.00	49.00	65.50	-	-	-	-	-	
x 12		323.8		48.00	64.00	-	71.70	119.0	118.0	148.0	-	48.00	64.00	-	-	-	-	-	
x 10		273.0		43.00	57.50	-	64.30	106.0	111.0	139.0	-	43.00	57.50	-	-	-	-	-	
20 x 18	508	457.0	508	73.00	97.00	-	115.0	198.0	212.0	271.0	73.00	73.00	97.00	-	-	-	-	-	
x 16		406.4		70.00	93.00	-	110.0	190.0	201.0	256.0	70.00	70.00	93.00	-	-	-	-	-	
x 14		355.6		69.00	90.00	-	107.0	187.0	190.0	242.0	69.00	69.00	90.00	-	-	-	-	-	
x 12		323.8		58.00	78.00	-	91.00	157.0	182.0	231.0	-	58.00	78.00	-	-	-	-	-	
22 x 20	559	508.0	508	78.00	103.0	-	128.7	224.0	255.0	324.0	78.00	78.00	103.0	-	-	-	-	-	
x 18		457.0		65.50	86.50	-	107.9	195.5	243.0	308.0	65.50	65.50	86.50	-	-	-	-	-	
x 16		406.4		63.50	83.80	-	104.6	189.5	231.0	293.0	63.50	63.50	83.80	-	-	-	-	-	
x 14		355.4		62.00	81.80	-	102.0	185.0	219.0	278.0	62.00	62.00	81.80	-	-	-	-	-	
24 x 22	610	559.0	508	83.00	110.0	-	150.0	263.0	310.0	391.0	83.00	83.00	150.0	-	-	-	-	-	
x 20		508.0		82.00	109.0	-	146.0	254.0	297.0	374.0	82.00	82.00	146.0	-	-	-	-	-	
x 18		457.0		79.00	104.0	-	140.0	244.0	284.0	357.0	79.00	79.00	140.0	-	-	-	-	-	
x 16		406.4		70.00	92.00	-	126.0	225.0	271.0	341.0	70.00	70.00	126.0	-	-	-	-	-	

ASME 径違いTの形状・寸法・重量 / DIMENSIONS OF REDUCING TEE

ASME B 16.9

Nominal Pipe Size (NPS)	Dimensions (Unit:mm)				Carbon & Alloy Steel Weight (Unit:kg)														Stainless Steel Weight (Unit:kg)			
	Outside Diameter		Center-to-to-End																			
	Run	Outlet	Run	Outlet	STD	XS	XXS	S40	S80	S120	S160	S10	S20	S30	S60	S100	S140	S10S	S40S	S80S	S160	
	D	D	C	M																		
3/4 x 1/2	26.7	21.3	29	29	0.136	0.180	0.207	0.136	0.180	-	0.195	-	-	-	-	-	-	0.160	0.180	0.190	0.197	
1 x 3/4	33.4	26.7	38	38	0.290	0.380	0.600	0.290	0.380	-	0.394	-	-	-	-	-	-	0.300	0.300	0.385	0.400	
x 1/2		21.3		38	0.290	0.380	0.600	0.290	0.380	-	0.374	-	-	-	-	-	-	0.300	0.300	0.385	0.380	
1-1/4 x 1	42.2	33.4	48	48	0.500	0.660	0.940	0.500	0.660	-	0.660	-	-	-	-	-	-	0.480	0.500	0.670	0.670	
x 3/4		26.7		48	0.480	0.600	0.920	0.480	0.600	-	0.623	-	-	-	-	-	-	0.470	0.500	0.610	0.620	
x 1/2		21.3		48	0.480	0.600	0.900	0.480	0.600	-	0.614	-	-	-	-	-	-	0.500	0.500	0.610	0.610	
1-1/2 x 1-1/4	48.3	42.2	57	57	0.740	1.000	1.380	0.740	1.000	-	1.020	-	-	-	-	-	-	0.680	0.850	1.010	1.030	
x 1		33.4		57	0.740	1.000	1.360	0.740	1.000	-	0.975	-	-	-	-	-	-	0.680	0.850	1.010	0.980	
x 3/4		26.7		57	0.720	0.990	1.340	0.720	0.990	-	0.928	-	-	-	-	-	-	0.680	0.850	1.000	0.940	
x 1/2		21.3		57	0.720	0.990	1.320	0.720	0.990	-	0.930	-	-	-	-	-	-	0.680	0.850	1.000	0.940	
2 x 1-1/2	60.3	48.3	64	60	1.000	1.400	2.400	1.000	1.400	-	2.030	-	-	-	-	-	-	0.830	1.100	1.410	2.050	
x 1-1/4		42.2		57	1.000	1.360	1.930	1.000	1.360	-	1.570	-	-	-	-	-	-	0.780	0.980	1.370	1.590	
x 1		33.4		51	0.990	1.170	1.870	0.990	1.170	-	1.600	-	-	-	-	-	-	0.780	0.970	1.180	1.600	
x 3/4		26.7		44	0.970	1.150	1.800	0.970	1.150	-	1.600	-	-	-	-	-	-	0.780	0.960	1.160	1.600	
x 1/2		-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.780	0.960	1.140	1.570	
2-1/2 x 2	73.0	60.3	76	70	1.720	2.300	3.820	1.720	2.300	-	2.850	-	1.720	-	-	-	-	1.350	2.050	2.320	2.880	
x 1-1/2		48.3		67	1.720	2.260	3.550	1.720	2.260	-	2.850	-	-	-	-	-	-	1.340	2.000	2.280	2.830	
x 1-1/4		42.2		64	1.720	2.260	3.400	1.720	2.260	-	2.850	-	-	-	-	-	-	1.330	1.850	2.280	2.830	
x 1		33.4		57	1.700	2.200	3.300	1.700	2.200	-	2.850	-	-	-	-	-	-	1.250	1.800	2.220	2.830	
x 3/4		-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.250	1.800	2.200	2.800	
3 x 2-1/2	88.9	73.0	86	83	2.830	3.400	6.210	2.830	3.400	-	4.880	-	2.830	-	-	-	-	1.770	2.800	3.430	4.930	
x 2		60.3		76	2.310	2.850	5.210	2.310	2.850	-	4.090	-	2.310	-	-	-	-	1.650	2.500	2.880	4.130	
x 1-1/2		48.3		73	2.270	2.770	5.000	2.270	2.770	-	4.090	-	-	-	-	-	-	1.650	2.500	2.800	4.130	
x 1-1/4		42.2		70	2.240	2.730	4.900	2.240	2.730	-	4.090	-	-	-	-	-	-	1.670	2.410	2.760	4.130	
x 1		-		-	2.230	2.700	5.000	2.230	2.700	-	4.090	-	-	-	-	-	-	1.670	2.410	2.740	4.100	
3-1/2 x 3	101.6	88.9	95	92	3.400	4.880	8.000	3.400	4.880	-	6.190	-	3.400	-	-	-	-	2.120	2.740	3.600	-	
x 2-1/2		73.0		89	3.200	4.630	7.800	3.200	4.630	-	5.900	-	3.200	-	-	-	-	2.120	2.740	3.600	-	
x 2		60.3		83	3.000	4.350	7.600	3.000	4.350	-	6.000	-	3.000	-	-	-	-	2.120	2.740	3.600	-	
x 1-1/2		48.3		79	2.900	4.000	7.400	2.900	4.000	-	6.000	-	-	-	-	-	-	2.120	2.740	3.600	-	
4 x 3-1/2	114.3	101.6	105	102	4.620	6.000	10.60	4.620	6.000	-	9.200	-	4.620	-	-	-	-	2.900	4.750	6.120	9.290	
x 3		88.9		98	4.330	6.060	10.40	4.330	6.060	-	8.870	-	4.330	-	-	-	-	2.900	4.750	6.120	9.290	
x 2-1/2		73.0		95	4.260	6.030	10.00	4.260	6.030	-	8.820	-	4.260	-	-	-	-	2.920	4.500	6.090	8.960	
x 2		60.3		89	4.120	4.940	8.900	4.120	4.940	-	7.230	-	4.120	-	-	-	-	2.820	4.000	5.000	8.900	
x 1-1/2		48.3		86	4.100	4.850	8.660	4.100	4.850	-	7.230	-	-	-	-	-	-	2.820	3.960	4.900	7.300	
x 1-1/4		-		-	4.100	4.700	8.660	4.100	4.700	-	7.230	-	-	-	-	-	-	2.800	3.940	4.860	7.260	
x 1		-		-	3.500	4.700	8.660	3.500	4.700	-	7.230	-	-	-	-	-	-	2.780	3.920	4.820	7.220	
5 x 4	141.3	114.3	124	117	7.100	9.700	17.60	7.100	9.700	11.10	15.20	-	7.100	-	-	-	-	4.480	6.860	9.800	15.30	
x 3-1/2		101.6		114	7.100	8.810	15.60	7.100	8.470	-	15.00	-	7.100	-	-	-	-	4.480	6.860	9.800	15.30	

ASME B 16.9

Nominal Pipe Size (NPS)	Dimensions (Unit:mm)			Carbon & Alloy Steel Weight (Unit:kg)												Stainless Steel Weight (Unit:kg)			
	Outside Diameter		End - to - End																
	Large End	Small End																	
	D	D		H	STD	XS	XXS	S40	S80	S120	S160	S10	S20	S30	S100	S10S	S40S	S80S	S160
5 x 4	141.3	114.3	127	2.800	3.720	6.470	2.800	3.720	4.570	5.700	-	-	-	-	1.490	2.550	3.550	5.630	
x 3-1/2		101.6		2.800	3.720	6.200	2.800	3.720	-	5.700	-	-	-	-	1.490	2.550	3.550	5.630	
x 3		88.9		2.760	3.700	5.780	2.760	3.700	-	5.650	-	-	-	-	1.450	2.300	3.210	5.050	
x 2-1/2		73.0		2.600	3.350	5.460	2.600	3.350	-	5.200	-	-	-	-	1.400	2.190	3.050	4.780	
x 2		60.3		2.470	3.200	5.300	2.470	3.200	-	5.000	-	-	-	-	1.300	2.050	2.860	4.440	
6 x 5	168.3	141.3	140	5.000	5.780	9.890	3.800	5.780	6.830	8.450	-	-	-	-	2.020	3.650	5.430	8.530	
x 4		114.3		3.800	5.500	8.980	3.800	5.500	6.280	7.750	-	-	-	-	1.950	3.350	5.010	7.830	
x 3-1/2		101.6		3.750	5.300	8.400	3.750	5.300	-	7.410	-	-	-	-	1.950	3.350	5.010	7.830	
x 3		88.9		3.700	5.160	8.210	3.700	5.160	-	7.080	-	-	-	-	1.820	3.070	4.610	7.150	
x 2-1/2		73.0		3.480	5.000	7.830	3.480	5.000	-	6.750	-	-	-	-	1.750	2.950	4.400	6.820	
x 2		60.3		3.400	-	-	-	-	-	-	-	-	-	-	1.700	2.920	4.300	6.700	
8 x 6	219.1	168.3	152	6.650	9.250	15.40	6.650	9.250	12.80	14.70	-	6.650	-	-	3.190	5.800	8.750	-	
x 5		141.3		6.400	8.900	14.50	6.400	8.900	12.20	13.80	-	6.400	-	-	3.080	5.550	8.250	-	
x 4		114.3		6.000	8.500	13.60	6.000	8.500	11.60	12.90	-	6.000	-	-	3.010	5.170	7.800	-	
x 3-1/2		101.6		5.200	7.800	-	5.200	7.800	-	12.60	-	5.200	-	-	3.010	5.170	7.800	-	
x 3		88.9		5.200	7.800	-	-	-	-	-	-	-	-	-	2.900	5.000	7.400	-	
10 x 8	273.0	219.1	178	11.20	13.70	25.00	11.20	15.70	21.30	27.00	-	11.20	11.20	21.30	5.200	9.700	12.90	-	
x 6		168.3		10.90	13.50	22.70	10.90	14.60	19.30	24.50	-	10.90	-	19.30	5.000	8.900	12.30	-	
x 5		141.3		10.00	13.00	21.50	10.00	14.10	18.10	23.30	-	10.00	-	18.10	4.890	8.600	11.60	-	
x 4		114.3		9.800	12.70	20.50	9.800	13.80	17.30	22.10	-	9.800	-	17.30	4.800	8.300	11.40	-	
12 x 10	323.8	273.0	203	14.00	19.00	34.50	15.90	23.00	34.00	43.60	-	14.00	14.00	34.00	7.980	13.80	18.20	-	
x 8		219.1		13.80	17.80	32.20	15.80	21.00	31.70	40.30	-	13.80	13.80	31.70	7.620	12.90	16.80	-	
x 6		168.3		13.60	17.20	30.00	15.70	18.60	29.40	37.20	-	13.60	-	29.40	7.430	12.10	15.70	-	
x 5		141.3		13.00	16.00	28.70	15.20	18.00	28.30	35.70	-	13.00	-	28.30	7.250	11.80	15.00	-	
14 x 12	355.6	323.8	330	25.40	31.00	-	29.50	49.30	70.10	87.70	-	25.40	25.40	-	-	-	-	-	
x 10		273.0		23.60	29.40	-	28.40	45.70	64.70	80.90	-	23.60	23.60	-	-	-	-	-	
x 8		219.1		23.00	29.00	-	27.40	44.20	59.70	74.30	-	23.00	23.00	-	-	-	-	-	
x 6		168.3		21.00	27.60	-	25.40	40.00	54.80	67.90	-	21.00	-	-	-	-	-	-	
16 x 14	406.4	355.6	356	31.00	43.00	-	43.00	69.80	95.00	121.0	31.00	31.00	43.00	-	-	-	-	-	
x 12		323.8		29.60	42.50	-	42.50	66.50	90.40	115.0	-	29.60	42.50	-	-	-	-	-	
x 10		273.0		27.80	42.00	-	42.00	62.30	84.40	107.0	-	27.80	42.00	-	-	-	-	-	
x 8		219.1		24.80	38.00	-	38.00	55.40	78.60	99.50	-	24.80	38.00	-	-	-	-	-	
18 x 16	457	406.4	381	51.00	68.20	-	76.00	126.0	130.0	164.0	51.00	51.00	68.20	-	-	-	-	-	
x 14		355.6		49.00	65.50	-	73.00	121.0	123.0	155.0	49.00	49.00	65.50	-	-	-	-	-	
x 12		323.8		48.00	64.00	-	71.70	119.0	118.0	148.0	-	48.00	64.00	-	-	-	-	-	
x 10		273.0		43.00	57.50	-	64.30	106.0	111.0	139.0	-	43.00	57.50	-	-	-	-	-	
20 x 18	508	457.0	508	73.00	97.00	-	115.0	198.0	212.0	271.0	73.00	73.00	97.00	-	-	-	-	-	
x 16		406.4		70.00	93.00	-	110.0	190.0	201.0	256.0	70.00	70.00	93.00	-	-	-	-	-	
x 14		355.6		69.00	90.00	-	107.0	187.0	190.0	242.0	69.00	69.00	90.00	-	-	-	-	-	
x 12		323.8		58.00	78.00	-	91.00	157.0	182.0	231.0	-	58.00	78.00	-	-	-	-	-	
22 x 20	559	508.0	508	78.00	103.0	-	128.7	224.0	255.0	324.0	78.00	78.00	103.0	-	-	-	-	-	
x 18		457.0		65.50	86.50	-	107.9	195.5	243.0	308.0	65.50	65.50	86.50	-	-	-	-	-	
x 16		406.4		63.50	83.80	-	104.6	189.5	231.0	293.0	63.50	63.50	83.80	-	-	-	-	-	
x 14		355.4		62.00	81.80	-	102.0	185.0	219.0	278.0	62.00	62.00	81.80	-	-	-	-	-	
24 x 22	610	559.0	508	83.00	110.0	-	150.0	263.0	310.0	391.0	83.00	83.00	150.0	-	-	-	-	-	
x 20		508.0		82.00	109.0	-	146.0	254.0	297.0	374.0	82.00	82.00	146.0	-	-	-	-	-	
x 18		457.0		79.00	104.0	-	140.0	244.0	284.0	357.0	79.00	79.00	140.0	-	-	-	-	-	
x 16		406.4		70.00	92.00	-	126.0	225.0	271.0	341.0	70.00	70.00	126.0	-	-	-	-	-	

FITTINGS WE OFFER



ELBOW
(90° OR 45°)
LR/SR



TEE
REDUCER



TEE OR
TEE EQUAL



ECCENTRIC
REDUCER



CONCENTRIC
REDUCER

SPECIFICATIONS:

STANDARDS:

ASTM A105 , API, ASME, AND ANSI B16.5

- size: 1/4" - 48"
- Thickness: Class 150-2,500
- All Items will have an accompanying Mill Test Certificate upon request

APPLICATIONS:

- Industrial
- Residential
- Petrochemical Plants
- Oil & Gas
- Refineries
- Sugar Mills
- Energy
- Construction & Infrastructure
- Chemicals
- Machineries
- Boilers
- Food & Beverage
- Shipping
- Desalination Plant
- Machineries
- Automotive & Transport
- High-Pressure Vessel
- Power Plants

WHY CHOOSE US?

1 RELIABLE

Since 1961, We have been a trusted vendor for some of the Philippines' biggest companies across sectors in Oil Refinery, Petroleum, Geothermal, LNG, LPG, Power/Energy, Chemical, Sugar Mill, Food/Beverage, Distillery & International Sub-Contractors.

2 COMPETITIVE PRICING

As a Direct Importer, Wholesaler, Retailer, Stockist, and Exclusive Agent, we can offer our clients the most competitive of prices in an ever changing market.

3 QUALITY PRODUCTS

We carry a wide range of materials that conforms to various International Standards such as ASME, ANSI, WRAS, BSI, and ULFM.



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