

METAL UTILITY CO.,LTD.

PIPES

FLANGES

FITTINGS

VALVES

GASKETS

STUD BOLTS



METAL UTILITY CO.,LTD.

บริษัท เมทัลทอล ยูทิลิตี้ จำกัด

Power Plant Petro Chemical Industry Oil & Gas Engineering & Construction Shipyards

PRODUCTS RANGE

PIPES

FLANGES

Carbon Steel Alloy Steel & Stainless Steel

Carbon Steel Pipes

A/SA53 A106 Gr.B,C API 5L Gr.A,B
Seamless ERW SAW A672-C55 CL.12
JIS G3452 SGP, G3454 STPG 370

Alloy Steel Pipes

SA/A333 Gr. 6 SA/A 335 P5 P11 P22
Seamless ERW SAW

Stainless Steel Pipes and Tubes

SA/A312 TP 304/L SA/A312 TP 316/L A269 TP316/L
JIS G3468 , JIS 3453 TP-A304, 316

Carbon Steel Flanges Alloy Steel

SA/A105N SA/A350 LF2, API 6A TIPE 6B

Stainless Steel Flanges

SA/A182 F304/L SA/A182 F316/L JIS B2312 SUS 304,316

Special (Exotic) Stainless Steel and Nickel Alloy Grades



FITTINGS VALVES



Carbon Steel Alloy Steel & Stainless Steel

Butt Weld Fittings

(SA/A234 WPB Seamless & Welded : Moderate Temperature) JIS FSGP, JIS PT370

(SA/A420 WPL6 Low Temperature)

(SA/A234 WP11, WP5, WP9, WP11, WP12, WP22 Seamless & Welded : Alloy Steel)

(SA/A403 WP304/L; SA/A403 WP316/L : Stainless Steel) JIS B2312 SUS 304, 316

Forged Steel Fittings Alloy Steel Fittings

SA/A105N SA/A350 LF2

Stainless Steel Fittings

SA/A182 F304/L SA/A182 F316/L



Forged Steel Valves

GATE VALVE, GLOBE VALVE, CHECK VALVE AND BALL VALVE

MATERIAL: ASTM A105N, A350 Gr. LF2, A182 F11, F12, F22

TRIM: API 600 No. 8, No. 5, No. 10, No. 12

Pressure Rating: 800 Lbs, 1500 Lbs.

Connection: SW, NPT, FLANGE ANSI B16.5

Cast Steel Valves

GATE VALVE, GLOBE VALVE, SWING CHECK VALVE AND BALL VALVE

MATERIAL: ASTM A216 Gr. WCB, ASTM A351 CF8, CF8M

TRIM: API 600 No. 8, No. 5, No. 10, No. 12

Pressure Rating: CLASS 150 Lbs, 300 Lbs, 600, Lbs, 900 Lbs, 1500 Lbs, 2500 Lbs

Facing: ANSI B16.5 RF, FF, RJ, BUTT WELD

STUD BOLTS GASKETS

Carbon Steel Alloy Steel & Stainless Steel



Alloy Stud bolts

(ASTM A193/A193M GR.B7)
(ASTM A193/A193M GR.B7M)
(ASTM A193/A193M GR.B16)
(ASTM A320/A320M GR.L7)

Alloy Stud Heavy Hex. Nuts

(ASTM A194/A194M GR.2H)
(ASTM A194/A194M GR.2HM)
(ASTM A194/A194M GR.4&4L)
(ASTM A194/A194M GR.7&7L)
(ASTM A194/A194M GR.7M)

Stainless Steel bolts

(ASTM A193/A193M GR.B6)
(ASTM A193/A193M GR.B8)
(ASTM A193/A193M GR.B8C)
(ASTM A193/A193M GR.B8M)
(ASTM A193/A193M GR.B8T)
(ASTM A320/A320M GR.B8)
(ASTM A320/A320M GR.B8C)
(ASTM A320/A320M GR.B8M)
(ASTM A320/A320M GR.B8T)

Stainless Steel Heavy Hex. Nuts

(ASTM A194/A194M GR.3)
(ASTM A194/A194M GR.6)
(ASTM A194/A194M GR.8)
(ASTM A194/A194M GR.8C)
(ASTM A194/A194M GR.8M)
(ASTM A194/A194M GR.8T)



Type of coating

(FluoroCarbon coated; Cadmium; Zinc plated base; Phosphate base; HotDipGalv)

Gaskets

(Spiral wound; Asbestos; Non asbestos)

Ring Joint Gaskets Oval , Octagonal , Bx , RX , Soft Iron , SS304 , 310 , 316 , Alloy , Ect.



Cutting Service

- CNC Flame / Plasma Cutting Table : 4 x 15 m.
- Band Saw Amada Max : 750 mm.

Carbon Steel Alloy Steel & Stainless Steel

Threaded

Modify : RF FF

Line Spade

Spectacle Blind / Figuer 8 Blanks



THREADED FLANGE



RF



FF



LINE SPADE



SPECTACLE BLIND



LINE SPADE



J-BOLT



ANCHOR BOLT



PIPE NIPPLE



Nominal pipe size		OD mm	Wall thickness = mm													Unit weight = kg/m				Shipping Vol/ft m³	
			10	20	30	STD	40	60	XS	80	100	120	140	160	XXS	Figures based on stainless steel					
mm	inches	mm														5S	10S	40S	80S		
3	1/8	10.30				1.73 0.37	1.73 0.37		2.41 0.47	2.41 0.47							1.24 0.28	1.73 0.36	2.41 0.48	0.0001	
6	1/4	13.70				2.24 0.63	2.24 0.63		3.02 0.80	3.02 0.80							1.65 0.51	2.24 0.64	3.02 0.82	0.0001	
10	3/8	17.10				2.31 0.84	2.31 0.84		3.20 1.10	3.20 1.10							1.65 0.64	2.31 0.86	3.20 1.12	0.0003	
15	1/2	21.30				2.77 1.27	2.77 1.27		3.73 1.62	3.73 1.62					4.78 1.95	7.47 2.55	1.65 0.82	2.11 1.01	2.77 1.30	3.73 1.65	0.0004
20	3/4	26.70				2.87 1.69	2.87 1.69		3.91 2.20	3.91 2.20					5.56 2.90	7.82 3.64	1.65 1.04	2.11 1.31	2.87 1.71	3.91 2.24	0.0007
25	1	33.40				3.38 2.50	3.38 2.50		4.55 3.24	4.55 3.24					6.35 4.24	9.09 5.45	1.65 1.33	2.77 2.13	3.38 2.55	4.55 3.29	0.0011
32	1.1/4	42.20				3.56 3.39	3.56 3.39		4.85 4.47	4.85 4.47					6.35 5.61	9.70 7.77	1.65 1.68	2.77 2.76	3.56 3.46	4.85 4.56	0.0018
40	1.1/2	48.30				3.68 4.05	3.68 4.05		5.08 5.51	5.08 5.51					7.14 7.25	10.15 9.56	1.65 1.95	2.77 3.17	3.68 4.13	5.08 5.51	0.0023
50	2	60.30				3.91 5.44	3.91 5.44		5.54 7.48	5.54 7.48					8.74 11.11	11.07 13.44	1.65 2.44	2.77 4.01	3.91 5.54	5.54 7.63	0.0036
65	2.1/2	73.00				5.16 8.63	5.16 8.63		7.01 11.41	7.01 11.41					9.53 14.92	14.02 20.39	2.11 3.77	3.05 5.36	5.16 8.81	7.01 11.64	0.0053
80	3	88.90				5.49 11.29	5.49 11.29		7.62 15.27	7.62 15.27					11.13 21.35	15.24 27.68	2.11 4.60	3.05 6.59	5.49 11.52	7.62 15.59	0.0079
90	3.1/2	101.60				5.74 13.57	5.74 13.57		8.08 18.63	8.08 18.63							2.11 5.29	3.05 7.55	5.74 13.84	8.08 19.01	0.0103
100	4	114.30				6.02 16.07	6.02 16.07		8.56 22.32	8.56 22.32			11.13 28.32		13.49 33.54	17.12 41.03	2.11 5.96	3.05 8.52	6.02 16.40	8.56 22.77	0.0130
125	5	141.30				6.55 21.77	6.55 21.77		9.53 30.97	9.53 30.97			12.70 40.28		15.88 49.11	19.05 57.43	2.77 9.67	3.40 11.82	6.55 22.20	9.53 31.59	0.0199
150	6	168.30				7.11 28.26	7.11 28.26		10.97 42.56	10.97 42.56			14.27 54.20		18.26 67.56	21.95 79.22	2.77 11.55	3.40 14.13	7.11 28.83	10.97 43.42	0.028
200	8	219.10		6.35 33.31	7.04 36.81	8.18 42.55	8.18 42.55	10.31 53.08	12.70 64.64	12.70 64.64	15.09 75.92	18.26 90.44	20.62 100.92	23.01 111.27	22.23 107.92	2.77 15.09	3.76 20.37	8.18 43.39	12.70 65.95	0.048	
250	10	273.10		6.35 41.77	7.80 51.03	9.27 60.31	9.27 60.31	12.70 81.55	12.70 81.55	15.90 96.01	18.26 114.75	21.44 133.06	25.40 155.15	28.58 172.33	25.40 155.15	3.40 23.08	4.19 28.34	9.27 61.52	12.70 83.19	0.074	
300	12	323.90		6.35 49.73	8.38 65.20	9.53 73.88	10.31 79.73	14.27 108.96	12.70 97.46	17.48 132.08	21.44 159.91	25.40 186.97	28.58 208.14	33.32 238.76	25.40 186.97	3.96 31.89	4.45 36.73	9.52 75.52	12.70 99.43	0.104	
350	14	355.60	6.35 54.69	7.92 67.90	9.53 81.33	9.53 81.33	11.13 94.55	15.09 126.71	12.70 107.39	19.05 158.10	23.83 194.96	27.79 224.65	31.75 253.56	35.71 281.70		3.96 35.06	4.78 42.14			0.126	
400	16	406.40	6.35 62.64	7.92 77.83	9.53 93.27	9.53 93.27	12.70 123.30	16.66 160.12	12.70 123.30	21.44 203.53	26.19 245.56	30.96 286.64	36.53 333.19	40.49 365.35		4.19 42.41	4.78 48.26			0.165	
450	18	457.00	6.35 70.57	7.92 87.71	11.13 122.38	9.53 105.16	14.27 155.80	19.05 205.74	12.70 139.15	23.88 254.55	29.36 309.62	34.93 363.56	39.67 408.26	45.24 459.37		4.19 42.77	4.78 54.36			0.208	
500	20	508.00	6.35 78.55	9.53 117.15	12.70 155.12	9.53 117.15	15.09 183.42	20.62 247.83	12.70 155.12	26.19 311.17	32.54 381.53	38.10 441.49	44.45 508.11	50.51 564.81		4.78 60.46	5.54 70.00			0.258	
550	22	559.00	6.35 86.54	9.53 129.13	12.70 171.09	9.53 129.13		22.23 294.25	12.70 171.09	28.58 373.83	34.93 451.42	41.28 527.02	47.63 600.63	53.98 672.26		4.78 66.57	5.54 77.06			0.312	
600	24	610.00	6.35 94.53	9.53 141.12	14.27 209.64	9.53 141.12	17.48 255.41	24.61 355.26	12.70 187.06	30.96 442.08	38.89 547.71	46.02 640.03	52.37 720.15	59.54 808.22		5.54 84.16	6.35 96.37			0.372	
650	26	660.00	7.92 127.36	12.70 202.72		9.53 152.87			12.70 202.72											0.435	
700	28	711.00	7.92 137.32	12.70 218.69	15.88 271.21	9.53 164.85			12.70 218.69											0.505	
750	30	762.00	7.92 147.28	12.70 234.67	15.88 292.18	9.53 176.84			12.70 234.67							6.35 120.72	7.92 150.36			0.580	
800	32	813.00	7.92 157.24	12.70 250.64	15.88 312.15	9.53 188.82	17.48 342.91		12.70 250.64											0.660	
850	34	864.00	7.92 167.20	12.70 266.61	15.88 332.12	9.53 200.31	17.48 364.90		12.70 266.61											0.746	
900	36	914.00	7.92 176.96	12.70 282.27	15.88 351.70	9.53 212.56	19.05 420.42		12.70 282.27											0.835	
950	38	965.00				9.53 224.54			12.70 298.24											0.931	
1000	40	1016.00				9.53 236.53			12.70 314.22											1.032	
1050	42	1067.00				9.53 248.52			12.70 330.19											1.138	
1100	44	1118.00				9.53 260.50			12.70 346.16											1.249	
1150	46	1168.00				9.53 272.25			12.70 351.82											1.364	
1200	48	1219.00				9.53 284.24			12.70 377.79											1.485	

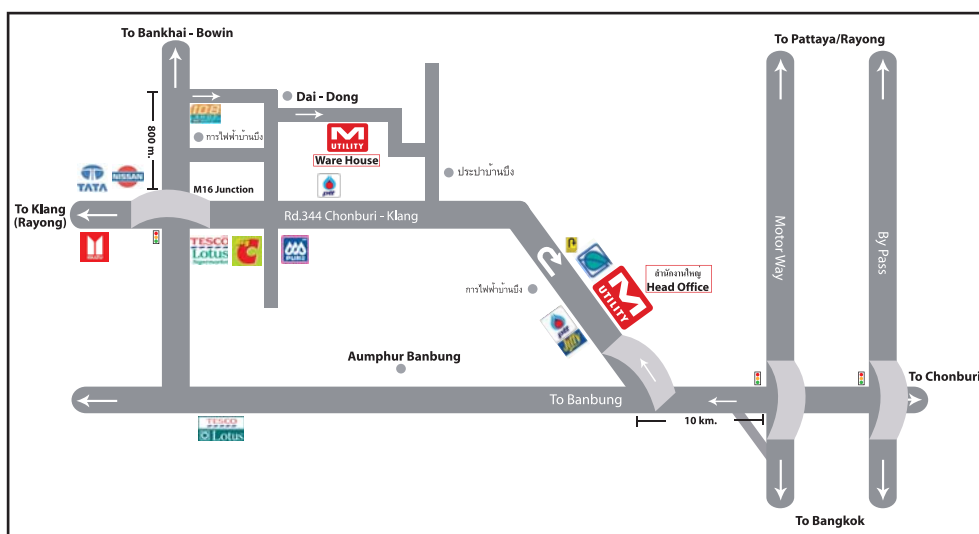


Nominal pipe size		OD	Wall thickness = inches												Unit weight = lbs./ft.								Shipping Vol/ft m³
			10	20	30	STD	40	60	XS	80	100	120	140	160	XXS	Figures based on stainless steel							
mm	inches	inches														5S	10S	40S	80S				
3	1/8	0.405				0.068 0.24	0.068 0.24		0.095 0.31	0.095 0.31							0.049 0.19	0.068 0.24	0.095 0.32	0.004			
6	1/4	0.540				0.088 0.42	0.088 0.42		0.119 0.54	0.119 0.54							0.065 0.34	0.088 0.43	0.119 0.55	0.007			
10	3/8	0.675				0.091 0.57	0.091 0.57		0.126 0.74	0.126 0.74							0.065 0.43	0.091 0.58	0.126 0.75	0.011			
15	1/2	0.840				0.109 0.85	0.109 0.85		0.147 1.09	0.147 1.09				0.188 1.31	0.294 1.71	0.065 0.55	0.083 0.68	0.109 0.87	0.147 1.11	0.014			
20	3/4	1.050				0.113 1.13	0.113 1.13		0.154 1.47	0.154 1.47				0.219 1.94	0.308 2.44	0.065 0.70	0.083 0.88	0.113 1.15	0.154 1.50	0.025			
25	1	1.315				0.133 1.68	0.133 1.68		0.179 2.17	0.179 2.17				0.250 2.84	0.358 3.66	0.065 0.89	0.109 1.43	0.133 1.71	0.179 2.21	0.039			
32	1.1/4	1.660				0.140 2.27	0.140 2.27		0.191 3.00	0.191 3.00				0.250 3.76	0.382 5.21	0.065 1.13	0.109 1.85	0.140 2.32	0.191 3.06	0.064			
40	1.1/2	1.900				0.145 2.72	0.145 2.72		0.200 3.63	0.200 3.63				0.281 4.86	0.400 6.41	0.065 1.31	0.109 2.13	0.145 2.77	0.200 3.70	0.081			
50	2	2.375				0.154 3.65	0.154 3.65		0.218 5.02	0.218 5.02				0.344 7.46	0.436 9.03	0.065 1.64	0.109 2.69	0.154 3.72	0.218 5.12	0.127			
65	2.1/2	2.875				0.203 5.79	0.203 5.79		0.276 7.66	0.276 7.66				0.375 10.01	0.552 13.69	0.083 2.53	0.120 3.60	0.203 5.91	0.276 7.81	0.187			
80	3	3.500				0.216 7.58	0.216 7.58		0.300 10.25	0.300 10.25				0.438 14.32	0.600 18.58	0.083 3.09	0.120 4.42	0.216 7.73	0.300 10.46	0.279			
90	3.1/2	4.000				0.226 9.11	0.226 9.11		0.318 12.50	0.318 12.50						0.083 3.55	0.120 5.07	0.226 9.29	0.318 12.76	0.364			
100	4	4.500				0.237 10.79	0.237 10.79		0.337 14.98	0.337 14.98		0.438 19.00		0.531 22.51	0.674 27.54	0.083 4.00	0.120 5.72	0.237 11.01	0.337 15.28	0.459			
125	5	5.563				0.258 14.62	0.258 14.62		0.375 20.78	0.375 20.78		0.500 27.04		0.625 32.96	0.750 38.55	0.109 6.49	0.134 7.93	0.258 14.91	0.375 21.20	0.703			
150	6	6.625				0.280 18.97	0.280 18.97		0.432 28.57	0.432 28.57		0.562 36.39		0.719 45.35	0.864 53.16	0.109 7.75	0.134 9.48	0.278 19.35	0.432 29.14	0.989			
200	8	8.625		0.250 22.36	0.277 24.70	0.322 28.55	0.322 28.55	0.406 35.64	0.500 43.39	0.500 43.39	0.594 50.95	0.719 60.71	0.812 67.76	0.906 74.69	0.875 72.42	0.109 10.13	0.148 13.67	0.322 29.12	0.500 44.26	1.695			
250	10	10.750		0.250 28.04	0.307 34.24	0.365 40.48	0.365 40.48	0.500 54.74	0.500 54.74	0.594 64.43	0.719 77.03	0.844 89.29	1.000 104.13	1.125 115.64	1.000 104.13	0.134 15.49	0.165 19.02	0.365 41.29	0.500 55.83	2.613			
300	12	12.750		0.250 33.38	0.330 43.77	0.375 49.56	0.406 53.52	0.562 73.15	0.500 65.42	0.688 88.63	0.844 107.32	1.000 125.49	1.125 139.67	1.312 160.27	1.000 125.13	0.156 21.40	0.180 24.65	0.375 50.55	0.500 66.73	3.673			
350	14	14.000	0.250 36.71	0.312 45.61	0.375 54.57	0.375 54.57	0.438 63.44	0.594 85.05	0.500 72.09	0.750 106.13	0.938 130.85	1.094 150.79	1.250 170.21	1.406 189.11		0.156 23.53	0.188 28.28			4.450			
400	16	16.000	0.250 42.05	0.312 52.27	0.375 62.85	0.375 62.58	0.500 82.77	0.656 107.50	0.500 82.77	0.844 136.61	1.031 164.85	1.129 192.43	1.438 233.64	1.594 245.25		0.156 29.46	0.188 32.39			5.827			
450	18	18.000	0.250 47.39	0.312 58.94	0.438 82.15	0.375 70.59	0.562 104.67	0.750 138.17	0.500 93.45	0.938 170.92	1.156 207.96	1.375 244.14	1.562 274.22	1.781 308.50		0.165 32.06	0.188 36.48			7.345			
500	20	20.000	0.250 52.73	0.375 78.60	0.500 104.13	0.375 78.60	0.594 123.11	0.812 166.40	0.500 104.13	1.031 208.87	1.281 256.10	1.500 296.37	1.750 341.09	1.969 379.17		0.188 40.58	0.218 46.98			9.111			
550	22	22.000	0.250 58.07	0.375 86.61	0.500 114.81	0.375 86.61		0.875 197.41	0.500 114.81	1.125 250.81	1.375 302.88	1.625 353.61	1.875 403.00	2.125 451.06		0.188 44.68	0.218 51.72			11.018			
600	24	24.000	0.250 63.41	0.375 94.62	0.562 140.68	0.375 94.62	0.688 171.29	0.969 238.35	0.500 125.49	1.219 296.58	1.531 367.39	1.812 429.39	2.062 483.12	2.344 542.13		0.218 56.48	0.218 64.68			13.137			
650	26	26.000	0.312 85.60	0.500 136.17		0.375 102.63			0.500 136.17											15.361			
700	28	28.000	0.312 92.26	0.500 146.85	0.625 182.73	0.375 110.64			0.500 146.85											17.833			
750	30	30.000	0.312 98.93	0.500 157.53	0.625 196.08	0.375 118.65			0.500 157.53							0.250 120.72	0.312 150.36			22.482			
800	32	32.000	0.312 105.59	0.500 168.21	0.625 209.43	0.375 126.66	0.688 230.08		0.500 168.21											23.307			
850	34	34.000	0.312 112.25	0.500 178.89	0.625 222.78	0.375 134.67	0.688 244.77		0.500 178.89											26.344			
900	36	36.000	0.312 118.92	0.500 189.57	0.625 236.13	0.375 142.68	0.750 282.35		0.500 189.57											29.487			
950	38	38.000				0.375 150.69			0.500 200.25											32.877			
1000	40	40.000				0.375 158.70			0.500 210.93											36.444			
1050	42	42.000				0.375 166.71			0.500 221.61											40.187			
1100	44	44.000				0.375 174.72			0.500 232.29											44.107			
1150	46	46.000				0.375 182.73			0.500 242.97											48.168			
1200	48	48.000				0.375 190.74			0.500 253.65											52.441			



METAL UTILITY CO.,LTD.

บริษัท เม็ททอล ยูทิลิตี้ จำกัด



เลขที่ 8 ถนนบ้านบึง-แกลง ตำบลบ้านบึง อำเภอบ้านบึง จังหวัดชลบุรี 20170

8 Banbang - Klange Rd., District Banbung, Aumthur Banbung Chonburi 20170

Tel : (038)-752605, 444785-87 Fax : (038) 752606, 444792

Website <http://www.metalsutility.com> Email : sales@metalsutility.com

METAL UTILITY CO.,LTD.