



RAYONG TRADING & SERVICE CO.,LTD.

บริษัท ระยองเทรดดิ้ง แอนด์ เซอร์วิส จำกัด

PRODUCT CATALOG



RAYONG TRADING & SERVICE CO.,LTD.

“ เรามุ่งมั่นนำเสนอสินค้าได้มาตรฐาน และบริการด้วยคุณภาพ เพื่อสนองต่อความพึงพอใจสูงสุดของลูกค้า ”



ก่อตั้งเมื่อวันที่ 19 พฤษภาคม 2552 ดำเนินธุรกิจนำเข้าและจัดจำหน่ายอุปกรณ์ระบบท่อ อาทิเช่น ท่อ หน้าแปลน ข้อต่อ วาล์ว น๊อต สกรู ปะเก็น และผลิตภัณฑ์สำหรับอุดรอยรั่วท่อ ที่ใช้ในงานอุตสาหกรรมปิโตรเคมี อุตสาหกรรมน้ำมันและก๊าซ โรงไฟฟ้า โรงงานผลิตน้ำตาล อุตสาหกรรมอาหาร อุตสาหกรรมกระดาษ และอื่นๆ อีกทั้งเรารับผลิตน๊อต สกรู ที่เหมาะสำหรับการใช้งาน เฉพาะตามแบบ รวมไปถึงงานชุบ Electrogalvanized, Hot Dip Galvanized และเคลือบเทฟลอน นอกจากนี้ ยังให้บริการจัดหาสินค้าเกรดพิเศษจากทั้งในและต่างประเทศอีกด้วย

Has established in May 2009 we are importer and distributor of piping materials such as pipe, flange, fitting, valve, bolt, nut, screw, gasket and Rapp-it for using in various industries including petrochemical, oil & gas, power plant, sugar plant, food, paper & pulp and others. We also produce screw and bolts which suitable for specific applications including Electrogalvanized, Hot Dip Galvanized and Teflon coated. In addition, we also provide special grade both domestically and internationally



PIPE

ASTM

A53

Specification for Pipe, Steel, Black and hot-Dipped, Zinc-Coated, Welded and Seamless

A106

Specification for Seamless Carbon Steel Pipe for High-Temperature Service

A312

Specification for Seamless and Welded Austenitic Stainless Steel Pipe

SCH: 40, 80, 160, XS, XXS

Materials

WELDED PIPE

CARBON STEEL : A53

STAINLESS STEEL : A312

SEAMLESS PIPE

CARBON STEEL : A53 , A106

STAINLESS STEEL : A312

Nominal Pipe Size		OD. mm	Wall thickness = mm Unit weight = Kg/m																		
			10	20	30	STD	40	60	XS	80	100	120	140	160	XXS	Figures base on stainless steel					
																5S	10S	40S	80S		
mm	inches	mm				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		
6	1/8	10.30				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		
8	1/4	13.70				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		
10	3/8	17.10				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		
15	1/2	21.30				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		
20	3/4	26.70				3.38 2.50	3.38 2.50		4.55 3.24	4.55 3.24				6.53 4.24	9.09 5.45	1.65 1.33	2.77 2.13	3.38 2.55	4.55 3.29		
25	1	33.40				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		
32	1 1/4	42.20				3.68 4.05	3.68 4.05		5.08 5.41	5.08 5.41				7.14 7.25	10.15 9.56	1.65 1.95	2.77 3.17	3.68 4.13	5.08 5.51		
40	1 1/2	48.30				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		
50	2	60.30				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		
65	2 1/2	73.00				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		
80	3	88.90				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		
90	3 1/2	101.60				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		
100	4	114.30				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		
125	5	141.30				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		
150	6	168.30				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
200	8	219.10		6.35 41.77	7.80 51.03	9.27 60.31	9.27 60.31	12.70 81.55	12.70 81.55	15.09 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		
250	10	273.10		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	4.57 36.73	9.52 75.52	12.70 99.43		
300	12	323.90	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				
350	14	355.60	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				
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				
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 47.77	4.78 54.36				
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	50.01 564.81		4.78 60.46	5.54 70.00				
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				
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				
650	26	660.00	7.92 127.36	12.70 202.72		9.53 152.87			12.70 202.72												
700	28	711.00	7.92 137.32	12.70 218.69	15.88 271.21	9.53 164.85			12.70 218.69												
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				
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												
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												
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												
950	38	965.00				9.53 224.54			12.70 298.24												
1000	40	1016.00				9.53 236.53			12.70 314.22												
1050	42	1067.00				9.53 248.52			12.70 330.19												
1100	44	1118.00				9.53 260.5			12.70 346.16												
1150	46	1168.00				9.53 272.25			12.70 351.82												
1200	48	1219.00				9.53 284.24			12.70 377.79												

FLANGE



BLIND FLANGE



SOCKET WELD FLANGE



WELDING NECK FLANGE



THREAD FLANGE



SLIP ON FLANGE



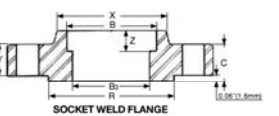
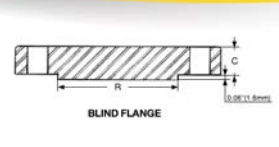
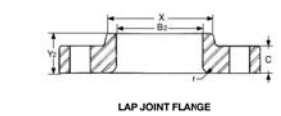
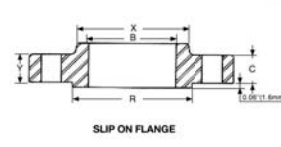
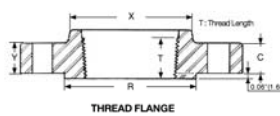
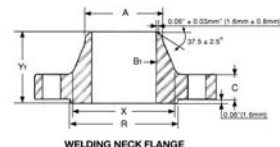
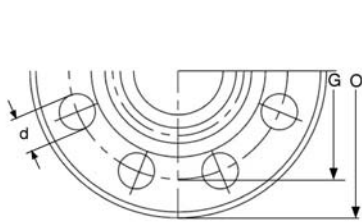
LAP JOINT FLANGE



Stainless Steel : A182 - F304L, F316L

Carbon Steel : A105

FLANGE



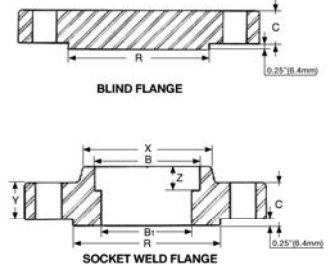
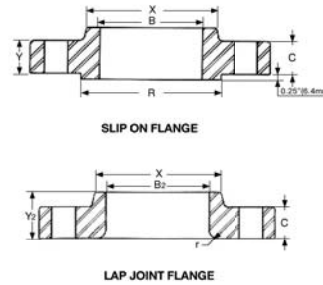
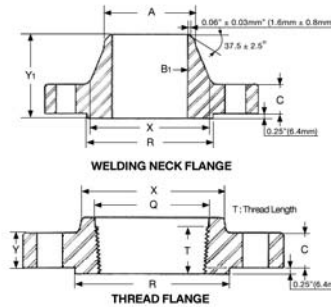
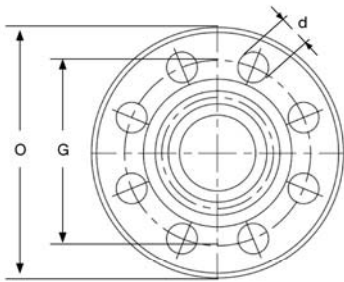
Flange CLASS 150 (PN20)

(ASME)	(ISO)	Outside Diameter	OD of Raised face	Thickness		No. & Size of Holes			Y	Y ₁	Y ₂	B	B ₂	r	T	Depth of Socket	RTJ Ring No.	Approx. Weights (kg)				
NPS	DN	O	R	C	X	No.	d	G								Z		WN	SO / TH	BL	LJ	SW
1/2	15	89	34.9	11.2	30	4	15.8	60.3	16	48	16	22.4	22.9	3	16	10	-	0.48	0.39	0.42	0.38	0.42
3/4	20	99	42.9	12.7	38	4	15.8	69.8	16	52	16	27.7	28.2	3	16	11	-	0.71	0.56	0.61	0.55	0.59
1	25	108	50.8	14.3	49	4	15.8	79.4	17	56	17	34.5	35.0	3	17	13	R15	1.01	0.78	0.86	0.76	0.81
1 1/4	32	117	63.5	15.7	59	4	15.8	88.9	21	57	21	43.2	43.7	5	21	14	R17	1.33	1.03	1.17	1.01	1.07
1 1/2	40	127	73.0	17.5	65	4	15.8	98.4	22	62	22	49.5	50.0	6	22	16	R19	1.72	1.32	1.53	1.30	1.36
2	50	152	92.1	19.1	78	4	19.0	120.6	25	63	25	62.0	62.5	8	25	17	R22	2.58	2.06	2.42	2.03	2.10
2 1/2	65	178	104.8	22.3	90	4	19.0	139.7	29	70	29	74.7	75.4	8	29	19	R25	4.11	3.28	3.94	3.25	3.33
3	80	190	127.0	23.9	108	4	19.0	152.4	30	70	30	90.7	91.4	10	30	21	R29	4.92	3.85	4.93	3.81	3.90
3 1/2	90	216	139.7	23.9	122	8	19.0	177.8	32	71	32	103.4	104.1	11	32	-	R33	6.08	4.81	6.17	4.76	-
4	100	229	157.2	23.9	135	8	19.0	190.5	33	76	33	116.1	116.8	11	33	-	R36	6.84	5.30	7.00	5.25	-
5	125	254	185.7	23.9	164	8	22.2	215.9	37	89	37	143.8	144.5	11	37	-	R40	8.56	6.07	8.63	6.02	-
6	150	279	215.9	25.4	192	8	22.2	241.3	40	89	40	170.7	171.4	13	40	-	R43	10.6	7.45	11.3	7.40	-
8	200	343	269.9	28.5	246	8	22.2	298.4	44	102	44	221.5	222.2	13	44	-	R48	17.6	12.1	19.6	12.1	-
10	250	406	323.8	30.2	305	12	25.4	362.0	49	102	49	276.4	277.4	13	49	-	R52	24.0	16.5	28.8	16.4	-
12	300	483	381.0	31.8	365	12	25.4	431.8	56	114	56	327.2	328.2	13	56	-	R56	36.5	26.2	43.2	26.1	-
14	350	533	412.8	35.0	400	12	28.5	476.2	57	127	57	359.2	360.2	13	57	-	R59	48.4	34.6	58.1	34.5	-
16	400	597	469.9	36.6	457	16	28.5	539.8	63	127	63	410.5	411.2	13	63	-	R64	60.6	44.8	76.0	44.6	-
18	450	635	533.4	39.7	505	16	31.8	577.8	68	140	68	461.8	462.3	13	68	-	R68	68.3	48.9	93.7	48.7	-
20	500	698	584.2	42.9	559	20	31.8	635.0	73	144	103	513.1	514.4	13	73	-	R72	84.5	61.9	122	61.6	-
24	600	813	692.2	47.7	664	20	35.0	749.3	83	152	111	616.0	616.0	13	83	-	R76	115	86.9	185	86.6	-

Flange CLASS 300 (PN50)

(ASME)	(ISO)	Outside Diameter	OD of Raised face	Thickness		No. & Size of Holes			Y	Y ₁	Y ₂	B	B ₂	r	T	Depth of Socket	RTJ Ring	Approx. Weights (kg)				
NPS	DN	O	R	C	X	No.	d	G								Z	No.	WN	SO / TH	BL	LJ	SW
1/2	15	95	34.9	14.2	38	4	15.8	66.7	22	52	22	22.4	22.9	3	16	10	R11	0.75	0.64	0.64	0.62	0.66
3/4	20	117	42.9	15.7	48	4	19.0	82.6	25	57	25	27.7	28.2	3	16	11	R13	1.26	1.12	1.11	1.10	1.15
1	25	124	50.8	17.5	54	4	19.0	88.9	27	62	27	34.5	35.0	3	18	13	R16	1.52	1.36	1.39	1.33	1.40
1 1/4	32	133	63.5	19.0	63	4	19.0	98.4	27	65	27	43.2	43.7	5	21	14	R18	2.03	1.68	1.79	1.65	1.75
1 1/2	40	156	73.0	20.6	70	4	22.2	114.3	30	68	30	49.5	50.0	6	22	16	R20	2.89	2.49	2.66	2.44	2.55
2	50	165	92.1	22.4	84	8	19.0	127.0	33	70	33	62.0	62.5	8	29	17	R23	3.40	2.87	3.18	2.83	2.93
2 1/2	65	190	104.8	25.4	100	8	22.2	149.2	38	76	38	74.7	75.4	8	32	19	R26	5.17	4.32	4.85	4.25	4.40
3	80	210	127.0	28.4	117	8	22.2	168.3	43	79	43	90.7	91.4	10	32	21	R31	6.93	5.85	6.81	5.78	5.92
3 1/2	90	229	139.7	30.2	133	8	22.2	184.1	44	81	44	103.4	104.1	10	37	-	R34	8.67	7.34	8.71	7.27	-
4	100	254	157.2	31.8	146	8	22.2	200.0	48	86	48	116.1	116.8	11	37	-	R37	11.2	9.61	11.5	9.55	-
5	125	279	185.7	35.0	178	8	22.2	235.0	51	98	51	143.8	144.5	11	43	-	R41	15.8	12.3	15.6	12.2	-
6	150	318	215.9	36.6	206	12	22.2	269.9	52	98	52	170.7	171.4	13	46	-	R45	19.1	15.6	20.9	15.5	-
8	200	381	269.9	41.1	260	12	25.4	330.2	62	111	62	221.5	222.2	13	51	-	R49	29.9	24.2	34.3	24.1	-
10	250	444	323.8	47.8	320	16	28.5	387.4	66	117	95	276.4	277.4	13	56	-	R53	42.7	34.1	53.3	34.4	-
12	300	521	381.0	50.8	375	16	31.8	450.8	73	130	102	327.2	328.2	13	61	-	R57	61.8	49.8	78.8	50.4	-
14	350	584	412.8	53.8	425	20	31.8	514.4	76	143	111	359.2	360.2	13	64	-	R61	85.8	69.9	105	70.9	-
16	400	648	469.9	57.2	483	20	35.0	571.5	83	146	121	410.5	411.2	13	68	-	R65	106	88.1	137	89.5	-
18	450	711	533.4	60.5	533	24	35.0	628.6	89	159	130	461.8	462.3	13	70	-	R69	131	109	175	111	-
20	500	775	584.2	63.5	587	24	35.0	685.8	95	162	140	513.1	514.4	13	73	-	R73	158	134	221	137	-
24	600	914	692.2	69.9	701	24	41.1	812.8	106	168	152	616.0	616.0	13	83	-	R77	230	201	339	204	-

FLANGE



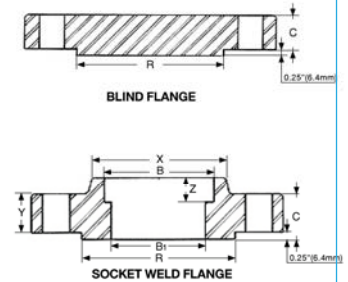
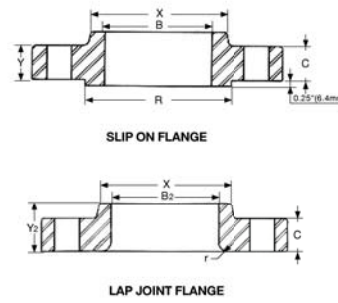
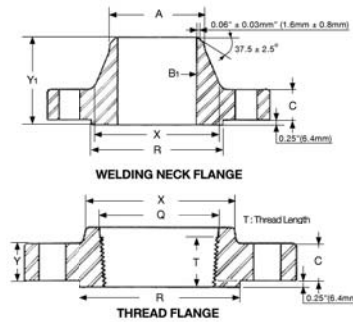
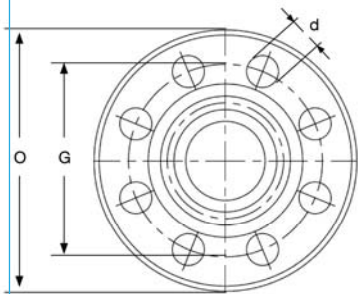
Flange CLASS 600 (PN100)

(ASME)	(ISO)	Outside Diameter	OD of Raised face	Thickness	No. & Size of Holes				Y	Y ₁	Y ₂	B	B ₂	r	T	Depth of Socket	RTJ Ring No.	Appro. Weights (kg)				
NPS	DN	O	R	C	X	No.	d	G								Z		WN	SO / TH	BL	LJ	SW
1/2	15	95	34.9	14.2	38	4	15.8	66.7	22	52	22	22.4	22.9	3	16	10	R11	0.87	0.74	0.76	0.72	0.76
3/4	20	117	42.9	15.7	48	4	19.0	82.6	25	57	25	27.7	28.2	3	16	11	R13	1.45	1.27	1.28	1.25	1.29
1	25	124	50.8	17.5	54	4	19.0	88.9	27	62	27	34.5	35.0	3	18	13	R16	1.76	1.52	1.60	1.50	1.55
1 1/4	32	133	63.5	20.6	64	4	19.0	98.4	29	67	29	43.2	43.7	5	21	14	R18	2.49	2.03	2.23	2.00	2.06
1 1/2	40	156	73.0	22.4	70	4	22.2	114.3	32	70	32	49.5	50.0	6	22	16	R20	3.49	2.96	3.25	2.92	3.00
2	50	165	92.1	25.4	84	8	19.0	127.0	37	73	37	62.0	62.5	8	29	17	R23	4.36	3.62	4.15	3.55	3.67
2 1/2	65	190	104.8	28.4	100	8	22.2	149.2	41	79	41	74.7	75.4	8	32	19	R26	6.43	5.28	6.13	5.23	5.35
3	80	210	127.0	31.8	118	8	22.2	168.3	46	83	46	90.7	91.4	10	35	21	R31	8.53	7.00	8.44	6.95	7.06
3 1/2	90	229	139.7	35.0	133	8	25.4	184.1	49	86	49	103.4	104.1	10	40	-	R34	10.7	8.84	11.0	8.78	-
4	100	273	157.2	38.1	152	8	25.4	215.9	54	102	54	116.1	116.8	11	41	-	R37	17.4	14.5	17.3	14.4	-
5	125	330	185.7	44.5	189	8	28.5	266.7	60	114	60	143.8	144.5	11	48	-	R41	29.2	24.4	29.4	24.3	-
6	150	356	215.9	47.8	222	12	28.5	292.1	67	117	67	170.7	171.4	13	51	-	R45	34.9	28.7	36.1	28.5	-
8	200	419	269.9	55.6	273	12	31.8	349.2	76	133	76	221.5	222.2	13	57	-	R49	53.9	43.4	58.9	43.1	-
10	250	508	323.8	63.5	343	16	35.0	431.8	86	152	111	276.4	277.4	13	65	-	R53	86.5	70.3	97.5	70.5	-
12	300	559	381.0	66.5	400	20	35.0	489.0	92	156	117	327.2	328.2	13	70	-	R57	103	84.2	124	86.1	-
14	350	603	412.8	69.9	432	20	38.1	527.0	94	165	127	359.2	360.2	13	73	-	R61	122	98.7	151	100	-
16	400	686	469.9	76.2	495	20	41.1	603.2	106	178	140	410.5	411.2	13	78	-	R65	170	142	214	145	-
18	450	743	533.4	82.6	546	20	44.5	654.0	117	184	152	461.8	462.3	13	79	-	R69	204	173	272	177	-
20	500	813	584.2	88.9	610	24	44.5	723.9	127	190	165	513.1	514.4	13	82	-	R73	254	220	349	225	-
24	600	940	692.2	101.6	718	24	50.8	838.2	140	203	184	616.0	616.0	13	92	-	R77	358	312	533	318	-

Flange CLASS 900 (PN150)

(ASME)	(ISO)	Outside Diameter	OD of Raised face	Thickness	No. & Size of Holes				Y	Y ₁	Y ₂	B	B ₂	r	T	Q	RTJ Ring No.	Appro. Weights (kg)				
NPS	DN	O	R	C	X	No.	d	G										WN	SO / TH	BL	LJ	SW
1/2	15	121	34.9	22.4	38	4	22.2	82.6	32	60	32	22.4	22.9	3	22	23.5	R12	1.87	1.74	1.77	1.71	1.80
3/4	20	130	42.9	25.4	44	4	22.2	88.9	35	70	35	27.7	28.2	3	25	29.0	R14	2.56	2.34	2.42	2.30	2.41
1	25	149	50.8	28.4	52	4	25.4	101.6	41	73	41	34.5	35.0	3	29	36.0	R16	3.74	3.44	3.57	3.40	3.55
1 1/4	32	159	63.5	28.4	63	4	25.4	111.1	41	73	41	43.2	43.7	5	30	44.5	R18	4.33	3.91	4.14	3.85	4.02
1 1/2	40	178	73.0	31.8	70	4	28.5	123.8	44	83	44	49.5	50.0	6	32	50.5	R20	5.94	5.36	5.75	5.28	5.45
2	50	216	92.1	38.1	105	8	25.4	165.1	57	102	57	62.0	62.5	8	38	63.5	R24	10.8	9.85	10.1	9.78	10.2
2 1/2	65	244	104.8	41.1	124	8	28.5	190.5	63	105	63	74.7	75.4	8	48	76.0	R27	15.0	13.7	14.0	13.6	13.9
3	80	241	127.0	38.1	127	8	25.4	190.5	54	102	54	90.7	91.4	10	41	92.0	R31	13.7	11.6	13.1	11.3	-
4	100	292	157.2	44.5	159	8	31.8	235.0	70	114	70	116.1	116.8	11	48	118	R37	22.5	19.7	26.9	19.2	-
5	125	349	185.7	50.8	190	8	35.0	279.4	79	127	79	143.8	144.5	11	54	145	R41	37.4	31.9	36.5	31.2	-
6	150	381	215.9	55.6	235	12	31.8	317.5	86	140	86	170.7	171.4	13	57	171	R45	47.7	41.1	47.4	40.5	-
8	200	470	269.9	63.5	298	12	38.1	393.7	102	162	114	221.5	222.2	13	64	222	R49	81.3	70.7	82.5	71.5	-
10	250	546	323.8	69.9	368	16	38.1	469.9	108	184	127	276.4	277.4	13	71	276	R53	119	101	122	104	-
12	300	610	381.0	79.2	419	20	38.1	533.4	117	200	143	327.2	328.2	13	76	329	R57	157	133	173	139	-
14	350	641	412.8	85.9	451	20	41.1	558.8	130	213	155	359.2	360.2	13	83	360	R62	180	153	206	161	-
16	400	705	469.9	88.9	508	20	44.5	616.0	133	216	165	410.5	411.2	13	86	411	R66	217	185	259	194	-
18	450	787	533.4	101.6	565	20	50.8	685.8	152	229	190	461.8	462.3	13	89	462	R70	292	258	367	267	-
20	500	857	584.2	108.0	622	20	53.8	749.3	159	248	210	513.1	514.4	13	92	513	R74	362	317	463	334	-
24	600	1041	692.2	139.7	749	20	86.5	901.7	203	292	267	616.0	616.0	13	102	614	R78	665	606	876	618	-

FLANGE



Flange CLASS 1500 (PN250)

(ASME)	(ISO)	Outside Diameter	OD of Raised face	Thickness		No. & Size of Holes			Y	Y1	Y2	B	B2	r	T	Depth of Socket	RTJ Ring No.	Appro. Weights (kg)				
NPS	DN	O	R	C	X	No.	d	G								Z		WN	SO / TH	BL	LJ	SW
1/2	15	121	34.9	22.4	38	4	22.2	82.6	32	60	32	22.4	22.9	3	22	10	R12	1.87	1.74	1.77	1.71	1.80
3/4	20	130	42.9	25.4	44	4	22.2	88.9	35	70	35	27.7	28.2	3	25	11	R14	2.56	2.34	2.42	2.30	2.41
1	25	149	50.8	28.4	52	4	25.4	101.6	41	73	41	34.5	35.0	3	29	13	R16	3.74	3.44	3.57	3.40	3.55
1 1/4	32	159	63.5	28.4	63	4	25.4	111.1	41	73	41	43.2	43.7	5	30	14	R18	4.33	3.91	4.14	3.85	4.02
1 1/2	40	178	73.0	31.8	70	4	28.5	123.8	44	83	44	49.5	50.0	6	32	16	R20	5.94	5.36	5.75	5.28	5.45
2	50	216	92.1	38.1	105	8	25.4	165.1	57	102	57	62.0	62.5	8	38	17	R24	10.8	9.85	10.1	9.78	10.2
2 1/2	65	244	104.8	41.1	124	8	28.5	190.5	63	105	63	74.7	75.4	8	48	19	R27	15.0	13.7	14.0	13.6	13.9
3	80	267	127.0	47.8	133	8	31.8	203.2	-	118	73	-	91.4	10	-	-	R35	19.9	21.7	19.1	17.8	-
4	100	311	157.2	53.8	162	8	35.0	241.3	-	124	90	-	116.8	11	-	-	R39	29.9	31.0	29.9	27.5	-
5	125	375	185.7	73.2	197	8	41.1	292.1	-	155	105	-	144.5	11	-	-	R44	55.4	58.8	58.4	51.5	-
6	150	394	215.9	82.6	229	12	38.1	317.5	-	171	119	-	171.4	13	-	-	R46	68.4	74.0	71.8	62.0	-
8	200	483	269.7	91.9	292	12	44.5	393.7	-	213	143	-	222.2	13	-	-	R50	117	118	122	105	-
10	250	584	323.8	108.0	368	12	50.8	482.6	-	254	178	-	277.4	13	-	-	R54	194	198	210	179	-
12	300	673	381.0	124.0	451	16	53.8	571.5	-	283	219	-	328.2	13	-	-	R58	288	264	316	269	-
14	350	749	412.8	133.4	495	16	60.5	635.0	-	298	241	-	360.2	13	-	-	R63	380	-	420	365	-
16	400	826	469.9	146.0	552	16	66.5	704.8	-	311	260	-	411.2	13	-	-	R67	485	-	558	459	-
18	450	914	533.4	162.0	597	16	73.2	774.7	-	327	276	-	462.3	13	-	-	R71	644	-	760	598	-
20	500	984	584.2	177.8	641	16	79.2	831.8	-	356	292	-	514.4	13	-	-	R75	775	-	965	712	-
24	600	1168	692.2	203.2	762	16	91.9	990.6	-	406	330	-	616.0	13	-	-	R79	1,232	-	1,558	1,090	-

Flange CLASS 2500 (PN420)

(ASME) NPS	(ISO) DN	Outside Diameter	OD of Raised face	Thickness	X	No. & Size of Holes			Y	Y1	B	r	T	Q	RTJ Ring No.	Appro. Weights (kg)			
		O	R	C		No.	d	G								WN	SO / TH	BL	LJ
1/2	15	133	34.9	30.2	43	4	22.2	88.9	40	73	22.9	3	29	23.5	R13	3.12	2.95	2.99	2.92
3/4	20	140	42.9	31.8	51	4	22.2	95.3	43	79	28.2	3	32	29.0	R16	3.70	3.44	3.50	3.40
1	25	159	50.8	35.0	57	4	25.4	108.0	48	89	35.0	3	35	36.0	R18	5.24	4.82	4.96	4.77
1 1/4	32	184	63.5	38.1	73	4	28.5	130.0	52	95	43.7	5	38	44.5	R21	7.74	7.14	7.35	7.08
1 1/2	40	203	73.0	44.5	79	4	31.8	146.0	60	111	50.0	6	44	50.5	R23	10.9	10.0	10.4	9.90
2	50	235	92.1	50.8	95	8	28.5	171.5	70	127	62.5	8	51	63.5	R26	16.2	14.8	15.6	14.7
2 1/2	65	267	104.8	57.2	114	8	31.8	196.9	79	143	75.4	8	57	76.0	R28	23.7	21.5	22.6	21.3
3	80	305	127.0	66.5	133	8	35.0	228.6	92	168	91.4	10	-	-	R32	36.2	32.6	34.8	32.3
4	100	356	157.2	76.2	165	8	41.1	273.0	108	190	116.8	11	-	-	R38	55.3	52.9	53.9	52.5
5	125	419	185.7	91.9	203	8	47.8	323.9	130	229	144.5	11	-	-	R42	92.5	83.1	90.8	82.6
6	150	483	215.9	108.0	235	8	53.8	368.3	152	273	171.4	13	-	-	R47	143	128	141	127
8	200	552	269.9	127.0	305	12	53.8	438.2	178	317	222.2	13	-	-	R51	215	188	214	186
10	250	673	323.8	165.1	375	12	66.5	539.8	229	419	277.4	13	-	-	R55	406	355	411	352
12	300	762	381.0	184.2	441	12	73.2	619.3	254	464	328.2	13	-	-	R60	572	504	592	501

BUTT WELDING FITTING



Carbon Steel

A234 Gr.WPB

Stainless Steel

A403 - Gr.304 / 304L / 316 / 316L



FORGED STEEL FITTING

Carbon Steel

A105

Stainless Steel

A182 - Gr.F304 / 304L / 316 / 316L



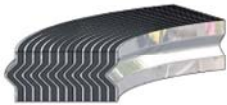
GASKET



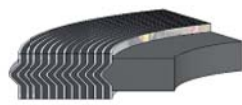
METALLIC GASKET

SPIRAL WOUND GASKET

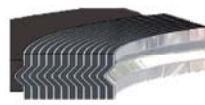
Style



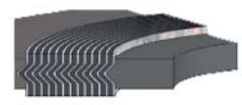
Only Winding



with IR



with OR



with OR and IR

Material

- Stainless Steel 304 , 316
- Carbon Steel

Filler

- PTFE
- Non Asbestos
- Graphite

Size : 1/2" x 60"

Class : 150 , 300 , 600 , 900 , 1500 LB.

RING TYPE JOINT

Material

- Stainless Steel 304 , 316
- Carbon Steel
- Soft Iron
- F 5

Shape : Octagonal / Oval / RX / BX



GASKET



NON – METALLIC GASKET

PURE TEFLON (PTFE) SHEET

Standard Size

Thickness : 0.5 – 20 mm

Sheet Size : 1 x 1 m



RUBBER SHEET

- NBR
- Neoprene
- EPDM
- VITON
- SILICONE

Standard Size

Thickness : 1.5 – 10 mm

Sheet Size : 1 x 10 m



NON – ASBESTOS JOINT SHEET

Standard Size

Thickness : 1.0/1.5/2.0/3.0 mm.

Sheet Size : 1.2 x 2.4 m.



TYPE OF VALVE



GATE VALVE



GLOBE VALVE



BALL VALVE



BUTTERFLY VALVE



CHECK VALVE



FOOT VALVE



NEEDLE VALVE

MATERIALS

Carbon Steel

- A216 WCB
- A105
- A352 LCB
- Cast iron (A126 - CL.B)

Bronze

Brass

Stainless Steel

- A351
- A182

Made To Order

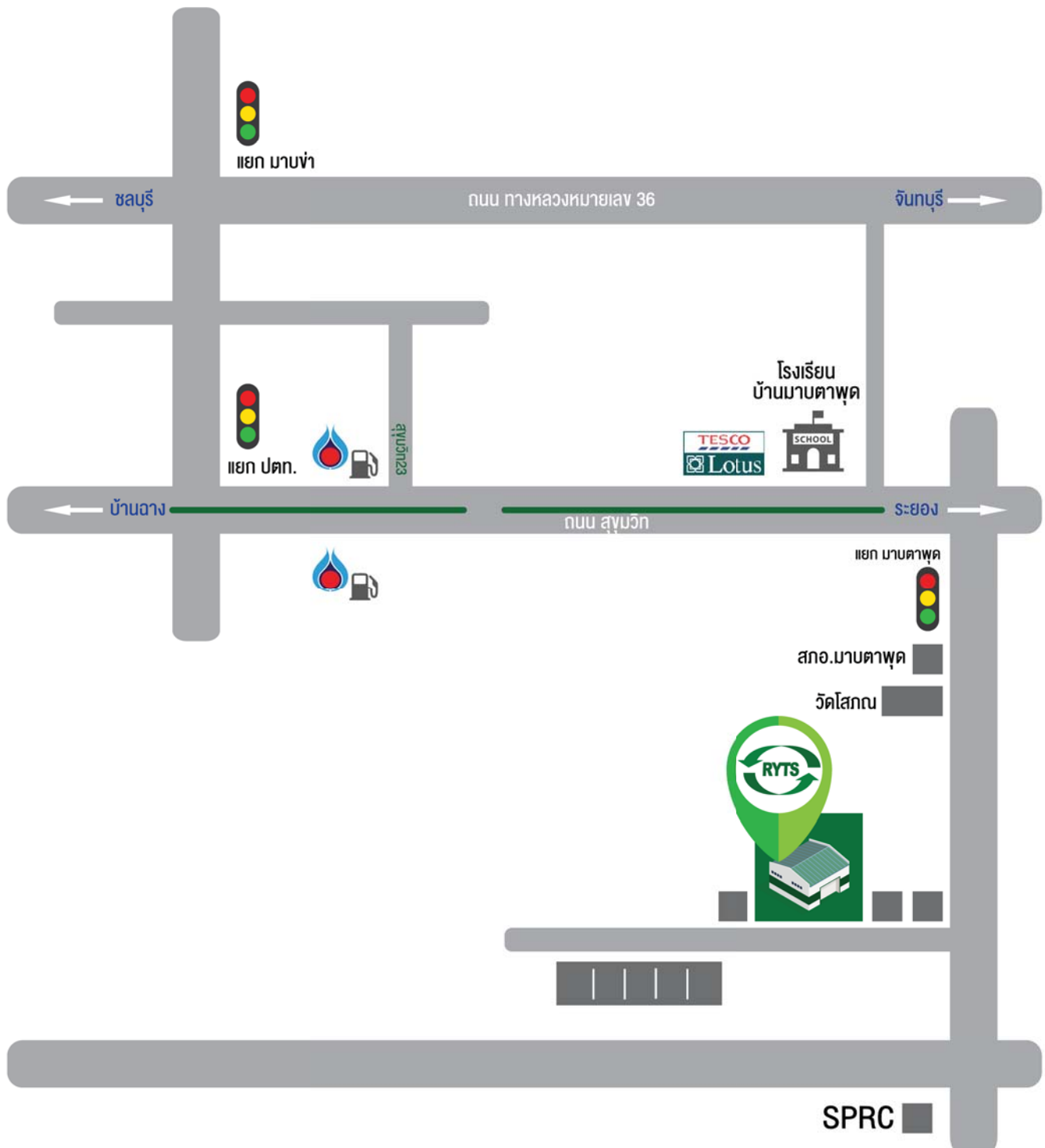
PRODUCT	MATERIAL	
Paddle Blind	Carbon Steel - SS400 - S45C - A36 - A516 - GR.70	Stainless Steel - SUS304 - SUS316
Spectacle Blind		
Plate Flange		
Spacer		
Flange JIS, DIN		
Pipe Nipple	Carbon Steel - A106 / API5L / A53 - GR.B	Stainless Steel - A312 - Gr.304 - A312 - Gr.316



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