

# NEW PLYMOUTH STEEL SUPPLIES LTD

## FLANGES

### Flange ASME B16.5 ANSI

CLASS 150	15	20	25	32	40	50	65	80	100		150#	200#	250	300
OD	90	100	110	120	130	150	180	190	230		280	345	405	485
Min Thick*	11.5	13	14.5	16	17.5	19.5	22.5	24	24		25.5	29	30.5	32
Hub Length**	16	16	17	21	22	25	29	30	33		40	44	49	56
Hub Length W/N	48	52	56	57	62	64	70	70	76		89	102	102	114
PCD	60.5	70	79.5	89	98.5	120.5	139.5	152.5	191		241.5	298.5	362	432
Bolt Hole Dia	16	16	16	16	16	20	20	20	20		22	22	26	26
No Bolts	4	4	4	4	4	4	4	4	8		8	8	12	12
Weight kg***	0.5	0.7	1	1.1	1.4	2.2	3.8	4.1	5.9		8.2	12.7	17.2	27.2
Weight kg W/N	0.8	0.9	1.1	1.4	1.8	2.8	4.4	5.2	7.5		11.3	19.1	25.4	38.1

CLASS 300	15	20	25	32	40	50	65	80	100		150#	200#	250	300
OD	95	120	125	135	155	165	190	210	255		320	380	445	520
Min Thick*	14.5	16	17.5	19.5	21	22.5	25.5	29	32		37	41.5	48	51
Hub Length**	22	25	27	27	30	33	38	43	48		52	62	67	73
Hub Length W/N	52	57	62	65	68	70	76	79	86		98	111	117	130
PCD	66.5	82.5	89	98.5	114.5	127	149	168.5	200		270	330	387.5	451
Bolt Hole Dia	16	20	20	20	22	20	22	22	22		22	26	30	33
No Bolts	4	4	4	4	4	8	8	8	8		12	12	16	16
Weight kg***	0.7	1.3	1.4	2	2.8	3.1	4.5	6.1	9.5		16.3	25.4	35.4	50.8
Weight kg W/N	0.9	1.4	1.8	2.3	3.1	3.7	5.6	8.2	11.8		20	32.2	45.4	64.4

CLASS 600	15	20	25	32	40	50	65	80	100		150#	200#	250	300
OD	95	120	125	135	155	165	190	210	275		355	420	510	560
Min Thick*	14.5	16	17.5	21	22.5	26.5	29	32	38.5		48	55.5	63.5	66.5
Hub Length**	22	25	27	29	32	37	41	46	54		67	76	86	92
Hub Length W/N	52	57	62	67	70	73	79	83	102		117	133	152	156
PCD	66.5	82.5	89	98.5	114.5	127	149	168.5	216		292	349	432	489
Bolt Hole Dia	16	20	20	20	22	20	22	22	26		30	33	36	36
No Bolts	4	4	4	4	4	8	8	8	8		12	12	16	20
Weight kg***	0.9	1.4	1.6	2	3	3.6	5.5	6.8	15		36.3	44	80.4	97.6
Weight kg W/N	1.4	1.6	1.8	2.5	3.6	4.5	6.4	8.2	16.8		38.1	50.6	85.8	102.6

\* Minimum thickness including raised face but excluding hub or weld neck

\*\* Hub length for slip on, screwed, & socket weld flanges

\*\*\* Approx weight slip on, socketweld & screwed flanges

# OD of pipe must be nominated

\*RT Temperature range -29 +38 °C

### ASME Flanges Pressure Temperature Chart

CLASS	150	300	600
RT*	15.9	41.4	82.7
50°C	15.3	40	80
100°C	13.3	34.8	69.6
150°C	12	31.4	62.8
200°C	11.2	29.2	58.3
250°C	10.5	27.5	54.9
300°C	10	26.1	52.1
350°C	8.4	25.1	50.1
400°C	6.5	24.3	48.6