

NEW PLYMOUTH STEEL SUPPLIES LTD

FLANGES

Flange BS 4504

PN10	15	20	25	32	40	50	65	80	100		150#	200#	250	300
Thickness			16	16	16	18	18	20	20		22	24	26	26
OD	95	105	115	140	150	165	185	200	220		285	340	395	445
PCD	65	75	85	100	110	125	145	160	180		240	295	350	400
No Bolts	4	4	4	4	4	4	4	8	8		8	8	12	12
Bolt Size	M12	M12	M16	M16	M16	M16	M16	M16	M16		M20	M20	M20	M24

PN16	15	20	25	32	40	50	65	80	100		150#	200#	250	300
Thickness*	14	16	16	16	16	18	18	20	20		22	24	28	28
OD	95	105	115	140	150	165	185	200	220		285	340	405	460
PCD	65	75	85	100	110	125	145	160	180		240	295	355	410
No Bolts	4	4	4	4	4	4	4	8	8		8	12	12	12
Bolt Size	M12	M12	M12	M16	M16	M16	M16	M16	M16		M20	M20	M24	M24
Bolt Length*	50	55	55	60	60	65	65	70	75		90	90	100	100
Weight SOW	0.7	1.0	1.2	1.7	1.9	2.4	3.2	4.1	4.4		7.3	9.3	10.1	14.1

PN40	15	20	25	32	40	50	65	80	100		150#	200#	250	300
Thickness			18	18	18	20	22	24	24		28	34	38	42
OD			115	140	150	165	185	200	235		300	375	450	515
PCD			85	100	110	125	145	160	190		250	320	385	450
No Bolts			4	4	4	4	8	8	8		8	12	12	16
Bolt Size			M12	M16	M16	M16	M16	M16	M20		M24	M27	M27	M30

BS 4504 Flanges Pressure Temperature Chart (Specifications in bar)

PN	16	25	40	63	
RT*	16.0	25.0	40.0	63.0	
50°C	15.6	24.4	39.1	61.1	
100°C	14.2	22.2	35.6	56.0	
150°C	12.8	20.0	32.0	50.4	
200°C	11.7	18.3	29.3	46.2	
250°C	10.9	17.0	27.2	42.8	
300°C	10.3	16.1	25.8	40.6	
350°C	9.90	15.4	24.7	38.9	
400°C	9.60	15.0	24.0	37.8	

*RT Temperature range -10 +50 °C

* Thickness of Plate Flange Note it is not practical to provide plate flanges less than 12mm thick

*** Lengths of bolts for plate steel flanges

OD of pipe must be nominated