

Flange Tables



Hose Supplies NZ Limited



Data Sheet for Steel Australian & DIN Standard Flanges

AS 2129 FLANGES



TABLE D

PLATE SLIP-ON WELDING

BLANK

Nominal Bore Size	15	20	25	32	40	50	65#	80	100	125	150#	200#	250	300	350	400	450	500	600
OD OF FLANGE	95	100	115	120	135	150	165	185	215	255	280	335	405	455	525	580	640	705	825
PCD	67	73	83	87	98	114	127	146	178	210	235	292	356	406	470	521	584	641	756
THICKNESS*	5	5	5	6	6	8	8	10	10	13	13	13	16	19	22	22	25	29	32
No BOLTS	4	4	4	4	4	4	4	4	4	8	8	8	8	12	12	12	12	16	16
BOLT SIZE	M12	M12	M12	M12	M12	M16	M16	M16	M16	M16	M16	M16	M20	M20	M24	M24	M24	M24	M27
BOLT LENGTH***	45	45	45	50	50	60	60	60	65	65	65	70	75	85	100	95	100	110	120
WEIGHT Kg SOW	0.3	0.3	0.4	0.5	0.6	0.9	1.1	1.6	2.1	3.7	4.1	5.1	8.8	11.9	20.2	23.1	30.7	42.4	60.2

TABLE E

Nominal Bore Size	15	20	25	32	40	50	65#	80	100	125	150#	200#	250	300	350	400	450	500	600
OD OF FLANGE	95	100	115	120	135	150	165	185	215	255	280	335	405	455	525	580	640	705	825
PCD	67	73	83	87	98	114	127	146	178	210	235	292	356	406	470	521	584	641	756
THICKNESS*	6	6	7	8	9	10	10	11	13	14	17	19	22	25	29	32	35	38	48
No BOLTS	4	4	4	4	4	4	4	4	8	8	8	8	12	12	12	12	16	16	16
BOLT SIZE	M12	M12	M12	M12	M12	M16	M16	M16	M16	M16	M20	M20	M20	M24	M24	M24	M24	M24	M30
BOLT LENGTH***	45	45	45	50	50	60	60	60	65	65	70	75	75	90	100	95	100	110	140
WEIGHT Kg SOW	0.3	0.4	0.5	0.6	0.9	1.2	1.3	1.8	2.7	3.9	5.3	7.5	12.1	15.6	26.6	33.6	42.9	55.5	90.3

TABLE H

Nominal Bore Size	15	20	25	32	40	50	65#	80	100	125	150#	200#	250	300	350	400	450	500	600
OD OF FLANGE	115	115	120	135	140	165	185	205	230	280	305	370	430	490	550	610	675	735	850
PCD	83	83	87	98	105	127	146	165	191	235	260	342	381	438	495	552	610	673	781
THICKNESS*	13	13	14	17	17	19	19	22	25	29	29	32	35	41	48	54	60	67	76
No BOLTS	4	4	4	4	4	4	8	8	8	8	12	12	12	16	16	20	20	24	24
BOLT SIZE	M16	M16	M16	M16	M16	M16	M16	M16	M16	M20	M20	M20	M24	M24	M27	M27	M30	M30	M33
BOLT LENGTH***	60	60	60	65	65	75	75	75	85	100	100	100	120	120	130	140	160	150	180
WEIGHT Kg SOW	1	1	1.2	1.7	1.8	2.8	3.4	4.7	6.2	10.6	11.8	17.6	23.7	34.1	52.1	68.7	90.8	116	163

* THICKNESS OF PLATE FLANGE - NOTE IT IS NOT PRACTICAL TO PROVIDE PLATE FLANGES LESS THAN 12mm THICK

NOTE, THE EXACT OD OF PIPE MUST BE NOMINATED

*** LENGTHS OF BOLTS FOR PLATE STEEL FLANGES

OTHER NOTES: DIMENSIONS ARE IN MM

LARGER SIZES AVAILABLE ON REQUEST

BS 4504 PN16 FLANGES



DIN - PN16

DIN BOSSED

BLANK

Nominal Bore Size	15	20	25	32	40	50	65	80	100	125	150#	200#	250	300	350	400	450	500	600
OD OF FLANGE	95	105	115	140	150	165	185	200	220	250	285	340	405	460	520	580	640	715	840
PCD	65	75	85	100	110	125	145	160	180	210	240	295	355	410	470	525	585	650	770
THICKNESS - A*	14	16	16	16	16	18	18	20	20	22	22	24	28	28	30	32	36	36	44
No BOLTS	4	4	4	4	4	4	4	8	8	8	8	12	12	12	16	16	20	20	20
BOLT SIZE	M12	M12	M12	M16	M16	M16	M16	M16	M16	M16	M20	M20	M24	M24	M24	M27	M27	M30	M33
BOLT LENGTH***	50	55	55	60	60	65	65	70	75	80	90	90	100	100	120	120	120	130	140
WEIGHT Kg SOW	0.7	1	1.2	1.7	1.9	2.4	3.2	4.1	4.4	5	7.3	9.3	10.1	14.5	24.5	28.8	31	42.8	53.5

* THICKNESS OF FLANGE INCLUDES BOSS FOR SLIP-ONS, BLANKS WILL BE WITHOUT BOSS

NOTE, THE EXACT OD OF PIPE MUST BE NOMINATED

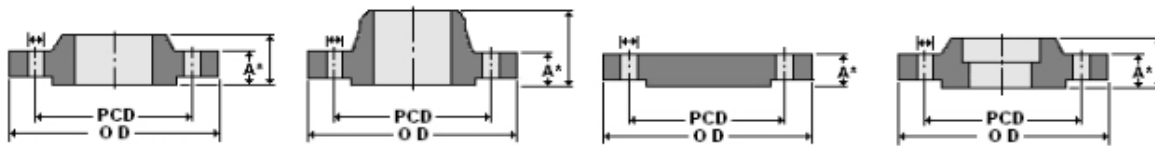
*** LENGTHS OF BOLTS FOR PLATE STEEL FLANGES

OTHER NOTES: DIMENSIONS ARE IN MM

LARGER SIZES AVAILABLE ON REQUEST

Data Sheet for Steel ANSI Standard Flanges

FLANGE ASME B16.5 FORGED FLANGES



CLASS 150	SLIP-ON WELD					WELD NECK					BLANK				SOCKET WELD					
Nominal Bore Size	15	20	25	32	40	50	65	80	100	125	150#	200#	250	300	350	400	450	500	600	
OD OF FLANGE	90	100	110	120	130	150	180	190	230	255	280	345	405	485	535	600	635	700	815	
PCD	60.5	70	79.5	89	98.5	121	140	153	191	216	242	299	362	432	476	540	578	635	750	
MIN THICK - A*	11.5	13	14.5	16	17.5	19.5	22.5	24	24	24	25.5	29	30.5	32	35	37	40	43	48	
HUB LENGTH SOW	16	16	17	21	22	25	29	30	33	36	40	44	49	56	57	64	68	73	83	
HUB LENGTH W/N	48	52	56	57	62	64	70	70	76	89	89	102	102	114	127	127	140	145	152	
BOLT HOLE DIA	16	16	16	16	16	20	20	20	20	22	22	22	26	26	30	30	33	33	36	
No BOLTS	4	4	4	4	4	4	4	4	8	8	8	8	12	12	12	16	16	20	20	
WEIGHT Kg SOW	0.5	0.7	1	1.1	1.4	2.2	3.8	4.1	5.9	6.1	8.2	12.7	17.2	27.2	35.4	42.2	52.6	65.3	91.6	
WEIGHT Kg W/N	0.8	0.9	1.1	1.4	1.8	2.8	4.4	5.2	7.5	9.5	11.3	19.1	25.4	38.1	51.3	63.5	74.9	89.4	122	

CLASS 300

Nominal Bore Size	15	20	25	32	40	50	65	80	100	125	150#	200#	250	300	350	400	450	500	600
OD OF FLANGE	95	120	125	135	155	165	190	210	255	280	320	380	445	520	585	650	710	775	915
PCD	66.5	82.5	89	98.5	115	127	149	169	200	235	270	330	388	451	515	572	629	686	813
MIN THICK - A*	14.5	16	17.5	19.5	21	22.5	25.5	29	32	35	37	41.5	48	51	54	57.5	60.5	63.5	70
HUB LENGTH SOW	22	25	27	27	30	33	38	43	48	51	52	62	67	73	76	83	89	95	106
HUB LENGTH W/N	52	57	62	65	68	70	76	79	86	98	98	111	117	130	143	146	159	162	168
BOLT HOLE DIA	16	20	20	20	22	20	22	22	22	22	22	26	30	33	33	36	36	36	42
No BOLTS	4	4	4	4	4	8	8	8	8	8	12	12	16	16	20	20	24	24	24
WEIGHT Kg SOW	0.7	1.3	1.4	2	2.8	3.1	4.5	6.1	9.5	12.7	16.3	25.4	35.4	50.8	72.2	95.3	115	139	222
WEIGHT Kg W/N	0.9	1.4	1.8	2.3	3.1	3.7	5.6	8.2	11.8	16.3	20	32.2	45.4	64.4	93.5	113	138	168	236

CLASS 600

Nominal Bore Size	15	20	25	32	40	50	65	80	100	125	150#	200#	250	300	350	400	450	500	600
OD OF FLANGE	95	120	125	135	155	165	190	210	275	330	355	420	510	560	605	685	745	815	940
PCD	66.5	82.5	89	98.5	115	127	149	169	216	267	292	349	432	489	527	603	654	724	838
MIN THICK - A*	14.5	16	17.5	21	22.5	26.5	29	32	38.5	44.5	48	55.5	63.5	66.5	70	76.5	83	89	102
HUB LENGTH SOW	22	25	27	29	32	37	41	46	54	60	67	76	86	92	94	106	117	127	140
HUB LENGTH W/N	52	57	62	67	70	73	79	83	102	114	117	133	152	156	165	178	184	190	203
BOLT HOLE DIA	16	20	20	20	22	20	22	22	26	30	30	33	36	36	39	42	45	45	52
No BOLTS	4	4	4	4	4	8	8	8	8	8	12	12	16	20	20	20	20	24	24
WEIGHT Kg SOW	0.9	1.4	1.6	2	3	3.6	5.5	6.8	15	28.6	36.3	44	80.4	97.6	118	166	216	278	398
WEIGHT Kg W/N	1.4	1.6	1.8	2.5	3.6	4.5	6.4	8.2	16.8	30.9	38.1	50.6	85.8	103	158	218	252	313	444

CLASS 900

Nominal Bore Size	15	20	25	32	40	50	65	80	100	125	150#	200#	250	300	350	400	450	500	600
OD OF FLANGE								240	295	350	380	470	545	610	640	705	785	855	1040
PCD								191	235	280	318	394	470	534	559	616	686	750	902
MIN THICK - A*								38.5	44.5	51	56	63.5	70	79.5	86	89	102	108	140
HUB LENGTH SOW	USE CLASS 1500 DIMENSIONS							54	70	79	86	102	108	117	130	133	152	159	203
HUB LENGTH W/N								102	114	127	140	162	184	200	213	216	229	248	292
BOLT HOLE DIA	IN THESE SIZES							26	32	35	32	39	39	39	42	45	52	54	68
No BOLTS								8	8	8	12	12	16	20	20	20	20	20	20
WEIGHT Kg SOW								14.1	24.1	37.7	49	78.1	111	148	173	208	294	360	672
WEIGHT Kg W/N								13.2	23.2	39	49.9	84.9	122	169	255	311	420	529	957

CLASS 1500

Nominal Bore Size	15	20	25	32	40	50	65	80	100	125	150#	200#	250	300	350	400	450	500	600
OD OF FLANGE	120	130	150	160	180	215	245	270	310	375	395	485	585	675	750	825	915	985	1170
PCD	82.5	89	102	111	124	165	191	203	242	292	318	394	483	572	635	705	775	832	991
MIN THICK - A*	22.5	25.5	29	29	32	38.5	41.5	48	54	73.5	83	92	108	124	134	147	162	178	204
HUB LENGTH SOW	32	35	41	41	44	57	64	73	90	105	119	143	159	181					
HUB LENGTH W/N	60	70	73	73	83	102	105	118	124	155	171	213	254	283	298	311	327	356	406
BOLT HOLE DIA	22	22	26	26	30	26	30	33	36	42	39	45	52	56	60	68	76	80	94
No BOLTS	4	4	4	4	4	8	8	8	8	8	12	12	12	16	16	16	16	16	16
WEIGHT Kg SOW	2.7	2.7	3.4	4.5	6.4	10	16.3	21.8	33.3	59.9	74.5	117	198	303					
WEIGHT Kg W/N	3.2	3.2	3.9	4.5	6.4	10.9	16.3	21.8	31.3	59.9	74.5	124	206	313					

* MINIMUM THICKNESS ARE INCLUDING RAISED FACE, BUT EXCLUDING HUB OR WELD NECK

** HUB LENGTH FOR SLIP ON ALSO APPLY TO SCREWED & SOCKET WELD FLANGES

NOTE, THE EXACT OD OF PIPE MUST BE NOMINATED

