



Nominal Bore		BS10 TABLE D					BS10 TABLE E					BS10 TABLE F					BS10 TABLE H					BS1560 ASA 150					BS1560 ASA 300				
MM	IN.	FLANGE DIMENSIONS				Dia. & Lgth of Bolts	FLANGE DIMENSIONS				Dia. & Lgth of Bolts	FLANGE DIMENSIONS				Dia. & Lgth of Bolts	FLANGE DIMENSIONS				Dia. & Lgth of Bolts	FLANGE DIMENSIONS				Dia. & Lgth of Bolts	FLANGE DIMENSIONS				Dia. & Lgth of Bolts
		DIA IN	THICK IN	PCD IN	NO OF HOLES		DIA IN	THICK IN	PCD IN	NO OF HOLES		DIA IN	THICK IN	PCD IN	NO OF HOLES		DIA IN	THICK IN	PCD IN	NO OF HOLES		DIA IN	THICK IN	PCD IN	NO OF HOLES		DIA IN	THICK IN	PCD IN	NO OF HOLES	
15	1/2"	3.3/4"	3/16"	2.5/8"	4	M12.25	3.3/4"	1/4"	2.5/8"	4	M12.30	3.3/4"	3/8"	2.5/8"	4	M12.40	4.1/2"	1/2"	3.1/4"	4	M16.50	3.1/2"	7/16"	2.3/8"	4	M12.45	3.3/4"	9/16"	2.5/8"	4	M12.50
20	3/4"	4"	3/16"	2.7/8"	4	M12.25	4"	1/4"	2.7/8"	4	M12.30	4"	3/8"	2.7/8"	4	M12.40	4.1/2"	1/2"	3.1/4"	4	M16.50	3.7/8"	1/2"	2.3/4"	4	M12.50	4.5/8"	5/8"	3.1/4"	4	M16.65
25	1"	4.1/2"	3/16"	3.1/4"	4	M12.25	4.1/2"	9/32"	3.1/4"	4	M12.30	4.3/4"	3/8"	3.7/16"	4	M16.45	4.3/4"	9/16"	3.7/16"	4	M16.50	4.1/4"	9/16"	3.1/8"	4	M12.50	4.7/8"	11.16"	3.1/2"	4	M16.65
32	1.1/4"	4.3/4"	1/4"	3.7/16"	4	M12.30	4.3/4"	5/16"	3.7/16"	4	M12.40	5.1/4"	1/2"	3.7/8"	4	M16.45	5.1/4"	11/16"	3.7/8"	4	M16.55	4.5/8"	5/8"	3.1/2"	4	M12.55	5.1/4"	3/4"	3.7/8"	4	M16.70
40	1.1/2"	5.1/4"	1/4"	3.7/8"	4	M12.30	5.1/4"	11/32"	3.7/8"	4	M12.40	5.1/2"	1/2"	4.1/8"	4	M16.50	5.1/2"	11/16"	4.1/8"	4	M16.55	5"	11/16"	2.7/8"	4	M12.55	6.1/8"	13/16"	4.1/2"	4	M20.75
50	2"	6"	5/16"	4.1/2"	4	M16.40	6"	3/8"	4.1/2"	4	M16.45	6.1/2"	5/8"	5"	4	M16.55	6.1/2"	3/4"	5"	4	M16.55	6"	3/4"	4.3/4"	4	M16.70	6.1/2"	7/8"	5"	8	M16.75
65	2.1/2"	6.1/2"	5/16"	5"	4	M16.40	6.1/2"	13/32"	5"	4	M16.45	7.1/4"	5/8"	5.3/4"	7	M16.55	7.1/4"	3/4"	5.3/4"	8	M16.65	7"	7/8"	5.1/2"	4	M16.75	7.1/2"	1"	5.7/8"	8	M20.80
80	3"	7.1/4"	3/8"	5.3/4"	4	M16.45	7.1/4"	7/16"	5.3/4"	4	M16.45	8"	5/8"	6.1/2"	7	M16.55	8"	7/8"	6.1/2"	8	M16.70	7.1/2"	15/16"	6"	4	M16.75	8.1/4"	1.1/8"	6.5/8"	8	M20.90
100	4"	8.1/2"	3/8"	7"	4	M16.45	8.1/2"	1/2"	7"	8	M16.50	9"	3/4"	7.1/2"	7	M16.55	9"	1"	7.1/2"	8	M16.75	9"	15/16"	7.1/2"	8	M16.75	10"	1.1/4"	7.7/8"	8	M20.95
125	5"	10"	1/2"	8.1/4"	8	M16.50	10"	9/16"	8.1/4"	8	M16.50	11"	7/8"	9.1/4"	7	M20.70	11"	1.1/8"	9.1/4"	8	M20.80	10"	15/16"	8.1/2"	8	M20.80	11"	1.3/8"	9.1/4"	8	M20.100
150	6"	11"	1/2"	9.1/4"	8	M16.50	11"	11/16"	9.1/4"	8	M20.65	12"	7/8"	10.1/4"	12	M20.70	12"	1.1/8"	10.1/4"	12	M20.80	11"	1"	9.1/2"	8	M20.80	12.1/2"	1.7/16"	10.5/8"	12	M20.105
175	7"	12"	1/2"	10.1/4"	8	M16.50	12"	3/4"	10.1/4"	8	M20.65	13.1/4"	7/8"	11.1/2"	12	M20.70	13.1/4"	1.1/4"	11.1/2"	12	M20.90	-	-	-	-	-	-	-	-	-	-
200	8"	13.1/4"	1/2"	11.1/2"	8	M16.50	13.1/4"	3/4"	11.1/2"	8	M20.65	14.1/2"	1"	12.3/4"	12	M20.75	14.1/2"	1.1/4"	12.3/8"	12	M20.90	13.1/2"	1.1/8"	11.3/4"	8	M20.90	15	1.5/8"	13"	12	M22.105
225	9"	14.1/2"	5/8"	12.3/4"	8	M16.55	14.1/2"	13/16"	12.3/4"	12	M20.70	16"	1.1/8"	14"	12	M22.80	16"	1.3/8"	14"	12	M22.100	-	-	-	-	-	-	-	-	-	-
250	10"	16"	5/8"	14"	8	M20.55	16"	7/8"	14"	12	M20.70	17"	1.1/8"	15"	12	M22.80	17"	1.3/8"	15"	12	M22.100	16"	1.3/16"	14.1/4"	12	M22.95	17.1/2"	1.7/8"	15.1/4"	16	M24.120
300	12"	18"	3/4"	16"	12	M20.65	18"	1"	16"	12	M22.80	19.1/4"	1.1/4"	17.1/4"	16	M22.90	19.1/4"	1.5/8"	17.1/4"	16	M22.105	19"	1.1/4"	17"	12	M22.100	20.1/2"	2"	17.3/4"	16	M27.130
350	14"	20.3/4"	7/8"	18.1/2"	12	M22.70	20.3/4"	1.1/8"	18.1/2"	12	M22.80	21.3/4"	1.3/8"	19.1/2"	16	M24.100	21.3/4"	1.7/8"	19.1/2"	16	M24.120	21"	1.3/8"	18.3/4"	12	M24.105	23"	2.1/8"	20.1/4"	20	M27.140
375	15"	21.3/4"	7/8"	19.1/2"	12	M22.70	21.3/4"	1.1/4"	19.1/2"	12	M22.90	22.3/4"	1.1/2"	20.1/2"	16	M24.105	22.3/4"	2"	20.1/2"	16	M24.130	-	-	-	-	-	-	-	-	-	-
400	16"	22.3/4"	7/8"	20.1/2"	12	M22.70	22.3/4"	1.1/4"	20.1/2"	12	M22.90	24"	1.5/8"	21.3/4"	20	M24.110	24"	2.1/8"	21.3/4"	20	M24.140	23.1/2"	1.7/16"	21.1/4"	16	M24.105	25.1/2"	2.1/4"	22.1/2"	20	M30.150
450	18"	25.1/4"	1"	23"	12	M22.75	25.1/4"	1.3/8"	23"	16	M22.100	26.1/2"	1.3/4"	24"	20	M27.120	26.1/2"	2.3/8"	24"	20	M27.150	25"	1.9/16"	22.3/4"	16	M27.110	28"	2.3/8"	24.3/4"	24	M30.150
500	20"	27.3/4"	1.1/8"	25.1/4"	16	M22.80	27.3/4"	1.1/2"	25.1/4"	16	M22.105	29"	1"	26.1/2"	24	M27.130	29"	2.5/8"	26.1/2"	24	M27.170	27.1/2"	1.11/16"	25"	20	M27.120	30.1/2"	2.1/2"	27"	24	M30.160
600	24"	32.1/2"	1.1/4"	29.3/4"	16	M24.90	32.1/2"	1.7/8"	29.3/4"	16	M27.120	33.1/2"	2.1/4"	30.3/4"	24	M30.150	33.1/2"	3"	30.3/4"	24	M30.200	32"	1.7/8"	29.1/2"	20	M30.120	36"	2.3/4"	32"	24	M36.180

HEX ROUND HEX (HRH) BOLTS TO BS4190

STANDARD BOLT SIZES

1/2"	M12	1"	M24
5/8"	M16	1.1/4"	M30
3/4"	M20		

Nominal Bore		BS4504 TABLE 6 (PN6)					BS4504 TABLE 10 (PN10)					BS4504 TABLE 16 (PN16)					BS4504 TABLE 25 (PN25)					BS4504 TABLE 40 (PN40)					BS4504 TABLE 64 (PN64)				
MM	IN.	FLANGE DIMENSIONS				Diameter & Length of Bolts	FLANGE DIMENSIONS				Dia. & Lgth of Bolts	FLANGE DIMENSIONS				Dia. & Lgth of Bolts	FLANGE DIMENSIONS				Dia. & Lgth of Bolts	FLANGE DIMENSIONS				Dia. & Lgth of Bolts	FLANGE DIMENSIONS				Dia. & Lgth of Bolts
		DIA IN	THICK IN	PCD IN	NO OF HOLES		DIA IN	THICK IN	PCD IN	NO OF HOLES		DIA IN	THICK IN	PCD IN	NO OF HOLES		DIA IN	THICK IN	PCD IN	NO OF HOLES		DIA IN	THICK IN	PCD IN	NO OF HOLES		DIA IN	THICK IN	PCD IN	NO OF HOLES	
15	1/2"	80	12	55	4	M10.45	95	14	65	4	M12.50	95	14	65	4	M12.50	95	16	65	4	M12.55	95	16	65	4	M12.55	105	20	75	4	M12.70
20	3/4"	90	14	65	4	M10.50	105	16	75	4	M12.55	105	16	75	4	M12.55	105	18	75	4	M12.65	105	18	75	4	M12.65	130	22	90	4	M16.70
25	1"	100	14	75	4	M10.50	115	16	85	4	M12.55	115	16	85	4	M12.55	115	18	85	4	M12.65	115	18	85	4	M12.65	140	24	100	4	M16.75
32	1.1/4"	120	16	90	4	M12.55	140	16	100	4	M16.55	140	16	100	4	M16.55	140	18	100	4	M16.65	140	18	100	4	M12.65	155	24	110	4	M20.75
40	1.1/2"	130	16	100	4	M12.55	150	16	110	4	M16.55	150	16	110	4	M16.55	150	20	110	4	M16.70	150	20	110	4	M16.70	170	26	125	4	M20.80
50	2"	140	16	110	4	M12.55	165	18	125	4	M16.65	165	18	125	4	M16.65	165	20	125	4	M16.70	165	20	125	4	M16.70	180	26	135	4	M20.80
65	2.1/2"	160	16	130	4	M12.55	85	18	145	4	M16.65	185	18	145	4	M16.65	85	22	145	8	M16.70	185	22	145	8	M16.70	205	26	160	8	M20.80
80	3"	190	18	150	4	M16.65	200	20	160	8	M16.70	200	20	160	8	M16.70	200	24	160	8	M16.75	200	24	160	8	M16.75	215	30	170	8	M20.90
100	4"	210	18	170	4	M16.65	220	20	180	8	M16.70	220	20	180	8	M16.70	235	26	190	8	M20.80	235	26	190	8	M20.80	250	32	200	8	M24.90
125	5"	240	20	200	8	M16.70	250	22	210	8	M16.70	250	22	210	8	M16.70	270	28	220	8	M24.80	270	28	220	8	M24.80	295	34	240	8	M27.100
150	6"	265	20	225	8	M16.70	285	22	240	8	M20.70	285	22	240	8	M20.70	300	30	250	8	M24.90	300	30	250	8	M24.90	345	36	280	8	M30.105
175	7"	-	-	-	-	-	315	24	270	8	M20.75	315	24	270	8	M20.75	330	28	280	12	M24.80	350	32	295	12	M27.90	375	40	310	12	M30.120
200	8"	320	22	280	8	M16.70	340	24	295	8	M20.75	340	24	295	12	M20.75	360	30	310	12	M24.90	375	34	320	12	M27.90	415	46	345	12	M33.130
250	10"	375	24	335	12	M16.70	395	26	350	12	M20.80	405	26	355	12	M24.80	425	40	370	12	M27.90	450	42	385	12	M30.120	470	54	400	12	M33.150
300	12"	440	24	395	12	M20.70	445	26	400	12	M20.80	460	28	410	12	M24.80	485	38	430	16	M27.110	515	50	450	16	M30.140	530	62	460	16	M33.160
350	14"	490	26	445	12	M20.80	505	28	460	16	M20.80	520	32	470	16	M24.90	555	42	490	16	M30.125	580	56	510	16	M33.150	600	72	525	16	M39.180
400	16"	540	28	495	16	M20.80	565	32	515	16	M24.90	580	36	525	16	M27.100	620	46	550	16	M33.140	660	64	585	16	M36.160	670	78	585	16	M39.200
450	18"	595	30	550	16	M20.90	615	36	565	20	M24.105	640	40	585	20	M27.120	670	52	600	20	M33.140	685	68	610	20	M36.170	-	-	-	-	-
500	20"	645	30	600	20	M20.90	670	38	620	20	M24.105	715	44	650	20	M30.125	730	58	660	20	M33.155	755	72	670	20	M39.180	-	-	-	-	-
600	24"	755	32	705	20	M24.90	780	42	725	20	M27.120	840	52	770	20	M33.140	845	66	770	20	M36.165	-	-	-	-	-	-	-	-	-	-

Note 1: Bolt lengths are approximate for flange – flange duty assuming one 1/16" gasket and one bolt washer.

Note 2: BS10 are available as forged bossed or flat plate flanges as standard.

Note 3: BS1560 (ASA) are normally forged flanges

Note 4: BS4504 (Metric) are available as forged bossed or plate flanges as standard.

Note 5: Flange thicknesses shown are the greater thickness for that rating.

TEMPERATURE (°C)/Pressure Ratings												
TEMPERATURE FROM -10°	BSIO IMPERIAL PSI				BS1560 ASA PSI		BS4504 METRIC BAR					
	D	E	F	H	150	300	6	10	16	25	40	64
100°C	100	200	300	500	240	700	6	10	16	25	40	64
200°C	100	200	300	500	180	655	4.8	8	12.8	20	32	50
250°C	95	185	280	465	-	-	4.2	7	11.2	17.5	28	45
300°C	80	155	235	395	130	555	3.6	6	9.6	15	24	40
350°C	65	130	195	320	-	-	-	-	-	-	-	-
400°C	50	100	150	250	100	425	-	-	-	-	-	-

METRIC BS4505 SPECIFICATION STANDARD FLANGE TYPES

	Old Spec.	New Spec.
Weld Neck	2	111
Slip-On Plate	3	101
Screwed Bossed	4	113
Slip-on Bossed	5	112
Blank Plate	8	105

Example:
100mm BS4505 Tab 16/101