



## Flange Tables for the Heating and Ventilating Industry BS10 and BS1560 (ANSI B16.5)

- Bolts lengths are approx. for flange – flange duty assuming one 1/16" gasket and one washer
- Flange thickness shown are the greatest thickness for any given rating
- BS10 are available are forged bossed or flat plate as standard, BS1560 are normally forged flanges



Nominal Bore	BS10 Table D					BS10 Table E					BS10 Table F				
	In.	Flange Dimensions			Dia & Length Bolts	Flange Dimensions			Dia & Length Bolts	Flange Dimensions			Dia & Length Bolts		
		Dia. In.	Thick In.	PCD In.		No. Holes	Dia. In.	Thick In.		PCD In.	No. Holes	Dia. In.		Thick In.	PCD In.
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
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
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
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
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
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
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	8	M16.55
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	8	M16.55
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	8	M16.65
5	10	1/2	8 1/4	8	M16.45	10	9/16	8 1/4	8	M16.50	11	7/8	9 1/4	8	M20.70
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
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
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
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
10	16	5/8	14	8	M20.55	16	7/8	14	12	M20.70	17	1 1/8	15	12	M22.80
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
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
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
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
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
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	2	26 1/2	24	M27.130
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

Nominal Bore	BS10 Table H					BS1560 ANSI B16.5 Class 150					BS1560 ANSI B16.5 Class 300				
	In.	Flange Dimensions			Dia & Length Bolts	Flange Dimensions			Dia & Length Bolts	Flange Dimensions			Dia & Length Bolts		
		Dia. In.	Thick In.	PCD In.		No. Holes	Dia. In.	Thick In.		PCD In.	No. Holes	Dia. In.		Thick In.	PCD In.
1/2	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
3/4	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
1	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
1 1/4	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
1 1/2	5 1/2	11/16	4 1/8	4	M16.55	5	11/16	3 7/8	4	M12.55	6 1/8	13/16	4 1/2	4	M16.75
2	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	M20.75
2 1/2	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
3	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
4	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
5	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
6	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
7	13 1/4	1 1/4	11 1/2	12	M20.90	-	-	-	-	-	-	-	-	-	-
8	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
9	16	1 3/8	14	12	M22.100	-	-	-	-	-	-	-	-	-	-
10	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
12	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
14	21 3/4	1 7/8	19 1/2	16	M24.120	21	1 3/8	1 3/8	12	M24.105	23	2 1/8	20 1/4	20	M27.140
15	22 3/4	2	20 1/2	16	M24.130	-	-	-	-	-	-	-	-	-	-
16	24	2 1/8	21 3/4	20	M24.140	23 1/2	1 7/16	21 1/4	16	M24.105	15 1/2	2 1/4	22 1/2	20	M30.150
18	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
20	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
24	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

# Flange Tables for the Heating and Ventilating Industry

## BS4504



- Bolts lengths are approx. for flange – flange duty assuming one 1/16" gasket and one washer
- Flange thickness shown are the greatest thickness for any given rating
- BS4504 (Metric) flanges are available as forged, bossed or plate flanges as standard

Nominal Bore	BS 4504 Table 6					BS 4504 Table 10					BS 4504 Table 16				
	Flange Dimensions				Dia. & Length Bolts	Flange Dimensions				Dia. & Length Bolts	Flange Dimensions				Dia. & Length Bolts
mm	Dia. (mm)	Thick (mm)	PCD (mm)	No. Holes		Dia. (mm)	Thick (mm)	PCD (mm)	No. Holes		Dia. (mm)	Thick (mm)	PCD (mm)	No. Holes	
15	80	12	55	4	M10 .45	95	14	65	4	M12 .50	95	14	65	4	M12 .50
20	90	14	65	4	M10 .50	105	16	75	4	M12 .55	105	16	75	4	M12.55
25	100	14	75	4	M10 .50	115	16	85	4	M12 .55	115	16	85	4	M12 .55
32	120	16	90	4	M12 .55	140	16	100	4	M16 .55	140	16	100	4	M16 .55
40	130	16	100	4	M12 .55	150	16	110	4	M16 .55	150	16	110	4	M16 .55
50	140	16	110	4	M12 .55	165	18	125	4	M16 .65	165	18	125	4	M16 .65
65	160	16	130	4	M12 .55	185	18	145	4	M16 .65	185	18	145	4	M16 .65
80	190	18	150	4	M16 .65	200	20	160	8	M16 .70	200	20	160	8	M16 .70
100	210	18	170	4	M16 .65	220	20	180	8	M16 .70	220	20	180	8	M16 .70
125	240	20	200	8	M16 .70	250	22	210	8	M16 .70	250	22	210	8	M16 .70
150	265	20	225	8	M16 .70	285	22	240	8	M20 .70	285	22	240	8	M20 .70
175	-	-	-	-	-	315	24	270	8	M20 .75	315	24	270	8	M20 .75
200	320	22	280	8	M16 .70	340	24	295	8	M20 .75	340	24	295	12	M20 .75
250	375	24	335	12	M16 .70	395	26	350	12	M20 .80	405	26	355	12	M24 .80
300	440	24	395	12	M20 .70	445	26	400	12	M20 .80	460	28	410	12	M24 .80
350	490	26	445	12	M20 .80	505	28	460	16	M20 .80	520	32	470	16	M24 .90
400	540	28	495	16	M20 .80	565	32	515	16	M24 .90	580	36	525	16	M27 .100
450	595	30	550	16	M20 .90	615	36	565	20	M24 .105	640	40	585	20	M27 .120
500	645	30	600	20	M20 .90	670	38	620	20	M24 .105	715	44	650	20	M30 .125
600	755	32	705	20	M24 .90	780	42	725	20	M27 .120	840	52	770	20	M33 .140

