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DIMENSIONAL STANDARD · BS 10

BS 10 Plate Flange & Blind Flange Dimensions (Tables D, E, F, H)

BS 10 Table D, E, F and H plate flange and blind flange dimensions: OD, bore, RF/FF thickness and drilling in mm.

This chart gives **BS 10** plate flange and blind flange dimensions in millimetres for Tables D, E, F and H — outside diameter, bore, plate and blind thickness, and drilling. BS 10 is withdrawn but its Table D, E, F and H drilling is still widely used on existing plant and marine equipment.

Plate flanges are Teshi Group's core product: cut, machined and drilled in our own works in India from DN 10 up to 8000 NB (8 metres), in carbon, boiler-quality, stainless, duplex and nickel-alloy plate, with EN 10204 3.1 certificates.

- **D** Outside diameter of flange
- **B** Bore (inside diameter) of plate flange
- **C** Flange thickness — plate or blind, raised face (RF) or flat face (FF)
- **K** Bolt circle (pitch circle) diameter
- **n** Number of bolt holes

BS 10 Table D — plate and blind flange (mm)

Size NB	D Flange OD · mm	B Bore · mm	C Plate, RF · mm	C Plate, FF · mm	C Blind, RF · mm	C Blind, FF · mm	K Bolt circle · mm	n Bolts	Bolt Dia · mm
15	95.3	23.3	4.8	4.8	4.8	4.8	66.7	4	12.7
20	101.6	28.7	4.8	4.8	4.8	4.8	73	4	12.7
25	114.3	35.4	4.8	4.8	4.8	4.8	82.6	4	12.7
32	120.7	44.2	6.4	6.4	6.4	6.4	87.3	4	12.7
40	133.4	50.3	6.4	6.4	6.4	6.4	98.4	4	12.7
50	152.4	62.3	7.9	7.9	7.9	7.9	114.3	4	15.9
65	165.1	75	7.9	7.9	7.9	7.9	127	4	15.9
80	184.2	90.9	9.5	9.5	9.5	9.5	146.1	4	15.9
90	203.2	103.6	9.5	9.5	9.5	9.5	165.1	4	15.9
100	215.9	116.3	9.5	9.5	9.5	9.5	177.8	4	15.9
125	254	143.3	12.7	12.7	12.7	12.7	209.6	8	15.9
150	279.4	170.3	12.7	12.7	12.7	12.7	228.6	8	15.9
175	304.8	192.5	12.7	12.7	12.7	12.7	260.4	8	15.9
200	336.6	221.1	12.7	12.7	12.7	12.7	292.1	8	15.9
225	368.3	246.5	15.9	15.9	15.9	15.9	323.9	8	15.9
250	406.4	275	15.9	15.9	15.9	15.9	355.6	8	19.1
300	457.2	325.9	15.9	19.1	15.9	19.1	406.4	12	19.1
350	527.1	357.6	19.1	22.2	19.1	22.2	469.9	12	22.2
400	577.9	408.4	19.1	22.2	19.1	22.2	520.7	12	22.2
450	641.4	459.2	22.2	25.4	22.2	25.4	584.2	12	22.2
500	704.9	510	25.4	28.6	25.4	28.6	641.4	16	22.2

Size NB	D Flange OD · mm	B Bore · mm	C Plate, RF · mm	C Plate, FF · mm	C Blind, RF · mm	C Blind, FF · mm	K Bolt circle · mm	n Bolts	Bolt Dia · mm
600	825.5	611.6	28.6	31.8	28.6	31.8	755.7	16	25.4

BS 10 Table E — plate and blind flange (mm)

Size NB	D Flange OD · mm	B Bore · mm	C Plate, RF · mm	C Blind, RF · mm	K Bolt circle · mm	n Bolts	Bolt Dia · mm
15	95.3	23.3	6.4	6.4	66.7	4	12.7
20	101.6	28.7	6.4	6.4	73	4	12.7
25	114.3	35.4	7.1	7.1	82.6	4	12.7
32	120.7	44.2	7.9	7.9	87.3	4	12.7
40	133.4	50.3	8.7	8.7	98.4	4	12.7
50	152.4	62.3	9.5	9.5	114.3	4	15.9
65	165.1	75	10.3	10.3	127	4	15.9
80	184.2	90.9	11.1	11.1	146.1	4	15.9
90	203.2	103.6	11.9	11.9	—	—	—
100	215.9	116.3	12.7	12.7	177.8	8	15.9
125	254	143.3	14.3	14.3	209.6	8	15.9
150	279.4	170.3	17.5	17.5	228.6	8	19.1
175	304.8	192.5	19.1	19.1	—	—	—
200	336.6	221.1	19.1	19.1	292.1	8	19.1
225	368.3	246.5	20.6	20.6	—	—	—
250	406.4	275	22.2	22.2	355.6	12	19.1
300	457.2	325.9	25.4	25.4	406.4	12	22.2
350	527.1	357.6	25.4	25.4	469.9	12	22.2
400	577.9	408.4	25.4	25.4	520.7	12	22.2
450	641.4	459.2	28.6	28.6	584.2	16	22.2
500	704.9	510	31.8	31.8	—	16	22.2
600	825.5	611.6	38.1	38.1	755.7	16	—

BS 10 Table F — plate and blind flange (mm)

Size NB	D Flange OD · mm	B Bore · mm	C Plate, RF · mm	C Blind, RF · mm
15	95.3	23.3	9.5	9.5
20	101.6	28.7	9.5	9.5
25	120.7	35.4	9.5	9.5
32	133.4	44.2	12.7	12.7
40	139.7	50.3	12.7	12.7

Size NB	D Flange OD · mm	B Bore · mm	C Plate, RF · mm	C Blind, RF · mm
50	165.1	62.3	15.9	15.9
65	184.2	75	15.9	15.9
80	203.2	90.9	15.9	15.9
90	215.9	103.6	19.1	19.1
100	228.6	116.3	19.1	19.1
125	279.4	143.3	22.2	22.2
150	304.8	170.3	22.2	22.2
175	336.6	192.5	22.2	22.2
200	368.3	221.1	25.4	25.4
225	406.4	246.5	25.4	25.4
250	431.8	275	25.4	25.4
300	489	325.9	28.6	28.6
350	552.5	357.6	31.8	31.8
400	609.6	408.4	31.8	31.8
450	673.1	459.2	34.9	34.9
500	736.6	510	38.1	38.1
600	850.9	611.6	41.3	41.3

BS 10 Table H — plate and blind flange (mm)

Size NB	D Flange OD · mm	B Bore · mm	C Plate, RF · mm	C Blind, RF · mm	K Bolt circle · mm	n Bolts	Bolt Dia · mm
15	114.3	23.3	12.7	12.7	82.6	4	15.9
20	114.3	28.7	12.7	12.7	82.6	4	15.9
25	120.7	35.4	14.3	14.3	87.3	4	15.9
32	133.4	44.2	17.5	17.5	98.4	4	15.9
40	139.7	50.3	17.5	17.5	104.8	4	15.9
50	165.1	62.3	19.1	19.1	127	4	15.9
65	184.2	75	19.1	19.1	146.1	8	15.9
80	203.2	90.9	22.2	22.2	165.1	8	15.9
90	215.9	103.6	22.2	22.2	—	—	—
100	228.6	116.3	25.4	25.4	190.5	8	15.9
125	279.4	143.3	28.6	28.6	235	8	19.1
150	304.8	170.3	28.6	28.6	260.4	12	19.1
175	336.6	192.5	31.8	31.8	—	—	—
200	368.3	221.1	31.8	31.8	323.9	12	19.1
225	406.4	246.5	34.9	34.9	—	—	—

Size NB	D Flange OD · mm	B Bore · mm	C Plate, RF · mm	C Blind, RF · mm	K Bolt circle · mm	n Bolts	Bolt Dia · mm
250	431.8	275	34.9	34.9	381	12	22.2
300	489	325.9	38.1	38.1	438.2	16	22.2
350	552.5	357.6	41.3	41.3	495.3	16	25.4
400	609.6	408.4	44.5	44.5	552.5	20	25.4
450	673.1	459.2	47.6	47.6	609.6	20	28.6
500	736.6	510	50.8	50.8	673.1	24	28.6
600	850.9	611.6	57.2	57.2	781.1	24	31.8

Notes

- All dimensions are in millimetres; sizes are nominal bore (NB / DN).
- Plate flange thickness is given for raised-face (RF) and flat-face (FF) flanges; where only RF is shown, the FF thickness is the same.
- Reference values for estimation and checking. Verify against the current edition of the standard and the purchase specification before design, purchase or fabrication.

Reference information compiled from the published standard for convenience. It does not replace the current edition of the governing standard, which takes precedence. Verify critical dimensions before design, purchase or fabrication. Teshi Engineers & Sales Promoters (P) Ltd accepts no liability for errors or omissions. Online version: https://teshigroup.com/dimensional-standards/bs-10-plate-flange-dimensions/