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DIMENSIONAL STANDARD · AWWA C207

AWWA C207 Ring (Plate) Flange & Blind Flange Dimensions

AWWA C207 Class B, D, E and F ring (plate) flange and blind flange dimensions, 100–3600 NB: OD, bore and thickness in mm.

This chart gives **AWWA C207** ring (plate) flange and blind flange dimensions in millimetres for Class B, D, E and F — outside diameter, bore and thickness — for water transmission mains and pumping stations from 100 NB up to 3600 NB (4 to 144 inches).

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)

AWWA C207 Class B — ring (plate) and blind flange (mm)

Size NB	D Flange OD · mm	B Bore · mm	C Plate, RF · mm	C Blind, RF · mm
100	228.6	116.1	15.9	15.9
125	254	143.8	15.9	15.9
150	279.4	170.7	17.5	17.5
200	342.9	221.5	17.5	17.5
250	406.4	276.4	17.5	17.5
300	482.6	327.2	17.5	18.3
350	533.4	360.4	17.5	20.1
400	596.9	411.2	17.5	22.7
450	635	462	17.5	24.1
500	698.5	512.8	17.5	26.4
550	749.3	563.6	19	28.8
600	812.8	614.4	19	30.9
650	870	665.2	20.6	33.2
700	927.1	716	22.2	35.5
750	984.3	766.8	22.2	37.5
800	1060.5	817.6	23.8	40.2
850	1111.3	868.4	23.8	42.2
900	1168.4	919.2	25.4	44.5
950	1238.3	970	25.4	47.1
1000	1289.1	1020.8	25.4	49.1
1050	1346.2	1071.6	28.6	51.4
1100	1403.4	1122.4	28.6	53.7

Size NB	D Flange OD · mm	B Bore · mm	C Plate, RF · mm	C Blind, RF · mm
1150	1454.1	1173.2	28.6	55.7
1200	1511.3	1224	31.8	58
1250	1568.4	1274.8	31.8	60.4
1300	1625.6	1325.6	31.8	62.7
1350	1682.8	1376.4	34.9	65
1500	1854.2	1528.8	38.1	71.6
1650	2032	1681.2	41.3	78.5
1800	2197.1	1833.6	44.4	85.2
1950	2362.2	1986	50.8	50.8
2100	2533.6	2138.4	50.8	50.8
2250	2705.1	2290.8	57.2	57.2
2400	2876.5	2443.2	57.2	57.2
2550	3048	2595.6	63.5	63.5
2700	3219.5	2748	63.5	63.5
2850	3390.9	2900.4	69.9	69.9
3000	3562.4	3052.8	69.9	69.9
3150	3733.8	3205.2	76.2	76.2
3300	3905.3	3357.6	76.2	76.2
3600	4248.2	3662.4	82.6	82.6

AWWA C207 Class D — ring (plate) and blind flange (mm)

Size NB	D Flange OD · mm	B Bore · mm	C Plate, RF · mm	C Blind, RF · mm
100	228.6	116.1	15.9	15.9
125	254	143.8	15.9	16.5
150	279.4	170.7	17.5	17.6
200	342.9	221.5	17.5	20.6
250	406.4	276.4	17.5	24.2
300	482.6	327.2	20.6	28.4
350	533.4	360.4	23.8	28.8
400	596.9	411.2	25.4	32.1
450	635	462	27	33.8
500	698.5	512.8	28.6	36.8
550	749.3	563.6	30.2	39.8
600	812.8	614.4	31.8	42.2
650	870	665.2	33.3	45.4

Size NB	D Flange OD · mm	B Bore · mm	C Plate, RF · mm	C Blind, RF · mm
700	927.1	716	33.3	48.4
750	984.3	766.8	34.9	51
800	1060.5	817.6	38.1	54.6
850	1111.3	868.4	38.1	57.2
900	1168.4	919.2	41.3	60.2
950	1238.3	970	41.3	63.7
1000	1289.1	1020.8	41.3	66.3
1050	1346.2	1071.6	44.4	69.3
1100	1403.4	1122.4	44.4	72.4
1150	1454.1	1173.2	44.4	75
1200	1511.3	1224	47.6	78
1250	1568.4	1274.8	50.8	81.2
1300	1625.6	1325.6	50.8	84.2
1350	1682.8	1376.4	54	87.2
1500	1854.2	1528.8	57.2	96
1650	2032	1681.2	63.5	105.1
1800	2197.1	1833.6	66.7	113.8
1950	2362.2	1986	69.9	69.9
2100	2533.6	2138.4	73	73
2250	2705.1	2290.8	76.2	76.2
2400	2876.5	2443.2	82.6	82.6
2550	3048	2595.6	82.6	82.6
2700	3219.5	2748	85.7	85.7
2850	3390.9	2900.4	88.9	88.9
3000	3562.4	3052.8	88.9	88.9
3150	3733.8	3205.2	95.3	95.3
3300	3905.3	3357.6	98.4	98.4
3600	4248.2	3662.4	104.8	104.8

AWWA C207 Class E — ring (plate) and blind flange (mm)

Size NB	D Flange OD · mm	B Bore · mm	C Plate, RF · mm	C Blind, RF · mm
100	228.6	116.1	28.6	28.6
125	254	143.8	30.2	30.2
150	279.4	170.7	33.4	33.4
200	342.9	221.5	38.1	38.1

Size NB	D Flange OD · mm	B Bore · mm	C Plate, RF · mm	C Blind, RF · mm
250	406.4	276.4	39.7	39.7
300	482.6	327.2	44.4	44.4
350	533.4	360.4	47.6	47.6
400	596.9	411.2	50.8	50.8
450	635	462	54	54
500	698.5	512.8	60.3	60.3
550	749.3	563.6	63.5	63.5
600	812.8	614.4	66.7	66.7
650	870	665.2	69.9	69.9
700	927.1	716	69.9	69.9
750	984.3	766.8	73	73
800	1060.5	817.6	76.2	76.2
850	1111.3	868.4	76.2	77.5
900	1168.4	919.2	79.4	81.5
950	1238.3	970	79.4	86.2
1000	1289.1	1020.8	82.6	89.7
1050	1346.2	1071.6	85.7	93.9
1100	1403.4	1122.4	85.7	98
1150	1454.1	1173.2	87.3	101.5
1200	1511.3	1224	88.9	105.6
1250	1568.4	1274.8	88.9	109.9
1300	1625.6	1325.6	92.1	114
1350	1682.8	1376.4	95.3	118.1
1500	1854.2	1528.8	98.4	129.9
1650	2032	1681.2	108	142.3
1800	2197.1	1833.6	111.1	154.1
1950	2362.2	1986	120.7	120.7
2100	2533.6	2138.4	120.7	120.7
2250	2705.1	2290.8	130.2	130.2
2400	2876.5	2443.2	130.2	130.2
2550	3048	2595.6	139.7	139.7
2700	3219.5	2748	139.7	139.7
2850	3390.9	2900.4	149.2	149.2
3000	3562.4	3052.8	149.2	149.2
3150	3733.8	3205.2	158.8	158.8

Size NB	D Flange OD · mm	B Bore · mm	C Plate, RF · mm	C Blind, RF · mm
3300	3905.3	3357.6	158.8	158.8
3600	4248.2	3662.4	171.5	171.5

AWWA C207 Class F — ring (plate) and blind flange (mm)

Size NB	D Flange OD · mm	B Bore · mm	C Plate, RF · mm	C Blind, RF · mm
100	254	116.1	28.7	28.7
125	279.4	143.8	30.7	30.7
150	317.5	170.9	33.3	33.3
200	381	221.7	33.3	33.3
250	444.5	276.4	38.1	38.1
300	520.7	327.2	41.4	41.4
350	584.2	360.4	49.3	49.3
400	647.7	411.2	54.4	54.4
450	711.2	462	57.2	57.2
500	774.7	512.8	59.2	59.2
550	838.2	563.6	63.5	63.5
600	914.4	614.4	68.3	68.3
650	971.6	665.2	76.2	76.2
700	1035.1	716	79.5	79.5
750	1092.2	766.8	80	80.4
800	1149.4	817.6	82.6	84.6
850	1206.5	868.4	85.9	88.3
900	1270	919.2	87.9	93.2
950	1327.1	970	88.9	96.9
1000	1377.9	1020.8	92.2	101.1
1050	1447.8	1071.6	96.8	105.9
1100	1504.9	1122.4	101.6	110.2
1150	1562.1	1173.2	104.9	114.4
1200	1651	1224	114.3	121.4

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.

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