

## FLANGE DRILLINGS

The holes in the flanges are drilled to pipe industry dimensions and standards. The most common drillings are AS2129 Tables C, D, E and F; and ANSI B16.5 (also referred to as ASA) 150 and 300. The most common material for flanges is mild steel (galvanised or ungalvanised), but gun-metal bronze, stainless steel, aluminium and other materials are available.

TABLE C AND TABLE D

Nominal Size mm	Outside Diameter of Flange mm	Bolt Circle Diameter mm	No. of Bolts	Bolt Size and Thread	Bolt Hole Diameter mm
32	120	87	4	M12	14
40	135	98	4	M12	14
50	150	114	4	M16	18
65	165	127	4	M16	18
80	185	146	4	M16	18
100	215	178	4	M16	18
125	255	210	8	M16	18
150	280	235	8	M16	18
200	335	292	8	M16	18
250	405	356	8	M20	22
300	455	406	12	M20	22

TABLE E

Nominal Size mm	Outside Diameter of Flange mm	Bolt Circle Diameter mm	No. of Bolts	Bolt Size and Thread	Bolt Hole Diameter mm
32	120	87	4	M12	14
40	135	98	4	M12	14
50	150	114	4	M16	18
65	165	127	4	M16	18
80	185	146	4	M16	18
100	215	178	8	M16	18
125	255	210	8	M16	18
150	280	235	8	M20	22
200	335	292	8	M20	22
250	405	356	12	M20	22
300	455	406	12	M24	26

TABLE F

Nominal Size mm	Outside Diameter of Flange mm	Bolt Circle Diameter mm	No. of Bolts	Bolt Size and Thread	Bolt Hole Diameter mm
32	135	98	4	M16	18
40	140	105	4	M16	18
50	165	127	4	M16	18
65	185	146	8	M16	18
80	205	165	8	M16	18
100	230	191	8	M16	18
125	280	235	8	M20	22
150	305	260	12	M20	22
200	370	324	12	M20	22
250	430	381	12	M24	26
300	490	438	12	M24	26

ANSI SERIES 150

Size in.	Flange O.D. in.	P.C.D. in.	Bolt Hole Diameter in.	No. of Bolts	Bolt Diameter in.
2	6	4 ¾	¾	4	5/8
2 ½	7	5 ½	¾	4	5/8
3	7 ½	6	¾	4	5/8
4	9	7 ½	¾	8	5/8
6	11	9 ½	7/8	8	¾
8	13 ½	11 ¾	7/8	8	¾
10	16	14 ¼	1	12	7/8
12	19	17	1	12	7/8
16	23 ½	21 ¼	1 1/8	16	1
20	27 ½	25	1 ¼	20	1 1/8
24	32	29 ½	1 3/8	20	1 ¼

ANSI SERIES 300

Size in.	Flange O.D. in.	P.C.D. in.	Bolt Hole Diameter in.	No. of Bolts	Bolt Diameter in.
2	6	5	¾	8	5/8
2 ½	7 ½	5 7/8	7/8	8	¾
3	8 ¼	6 5/8	7/8	8	¾
4	10	7 7/8	7/8	8	¾
6	12 ½	10 5/8	7/8	8	¾
8	15	13	1	12	7/8
10	17 ½	15 ¼	1 1/8	16	1
12	20 ½	17 ¾	1 ¼	16	1 1/8
16	25 ½	22 ½	1 3/8	20	1 ¼
20	30 ½	27	1 3/8	24	1 ¼
24	36	32	1 3/8	24	1 ½