

DIMENSIONAL STANDARD · EN 1092-1

EN 1092-1 PN16 Flange Dimensions

PN16 weld neck, slip-on, plate and blind flange drilling and thickness, DN10–600, in mm.

This chart gives **EN 1092-1 PN16** flange dimensions in millimetres for DN 10 to DN 600: outside diameter, bolt circle, bolt holes and bolting, flange thickness and raised face. EN 1092-1 PN16 is the European flange standard most often specified on export and European-design projects.

Teshi Group manufactures flanges to EN 1092-1 on request — weld neck (Type 11), slip-on (Type 12), plate (Type 01) and blind (Type 05) — alongside its ASME B16.5 range.

- A** Pipe outside diameter (EN 10220 / ISO series 1)
- D** Outside diameter of flange
- K** Bolt circle (pitch circle) diameter
- L** Bolt hole diameter
- n** Number of bolts
- C1** Thickness of plate flange (Type 01)
- C2** Thickness of weld neck and blind flanges (Types 11 and 05)
- d1** Raised face diameter

EN 1092-1 PN16 flange dimensions (mm)

DN	A Pipe OD	D Flange OD	K Bolt circle	L Hole dia	n Bolts	Bolt Size	C1 Plate flange	C2 Weld neck / blind	d1 Raised face
10	17.2	90	60	14	4	M12	14	14	40
15	21.3	95	65	14	4	M12	14	14	45
20	26.9	105	75	14	4	M12	14	14	58
25	33.7	115	85	14	4	M12	16	16	68
32	42.4	140	100	18	4	M16	18	16	78
40	48.3	150	110	18	4	M16	18	16	88
50	60.3	165	125	18	4	M16	19	18	102
65	76.1	185	145	18	8	M16	20	18	122
80	88.9	200	160	18	8	M16	20	20	138
100	114.3	220	180	18	8	M16	22	20	158
125	139.7	250	210	18	8	M16	22	22	188
150	168.3	285	240	22	8	M20	24	22	212
200	219.1	340	295	22	12	M20	26	24	268
250	273.0	405	355	26	12	M24	29	26	320
300	323.9	460	410	26	12	M24	32	28	378
350	355.6	520	470	26	16	M24	35	30	438
400	406.4	580	525	30	16	M27	38	32	490
450	457.0	640	585	30	20	M27	42	40	550
500	508.0	715	650	33	20	M30	46	44	610

DN	A Pipe OD	D Flange OD	K Bolt circle	L Hole dia	n Bolts	Bolt Size	C1 Plate flange	C2 Weld neck / blind	d1 Raised face
600	610.0	840	770	36	20	M33	52	54	725

Notes

- All dimensions are in millimetres.
- Flange outside diameter, bolt circle and drilling are common to all EN 1092-1 flange types of the same DN and PN, so flanges of different types mate with each other.
- Bolt sizes are metric (ISO). Bolt holes are 2–6 mm larger than the bolt, as tabulated.
- C1 applies to plate flanges (Type 01); C2 to weld neck (Type 11) and blind (Type 05) flanges. Thickness excludes the raised face.
- DN 65 PN16 flanges have 8 bolt holes; 4-hole drilling is permitted by agreement.

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