

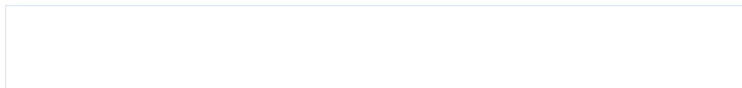


DAVINCI TECHNICAL DATA GUIDE

DAVINCI FLANGES

BLIND FLANGES

Ref. 600 A



Application

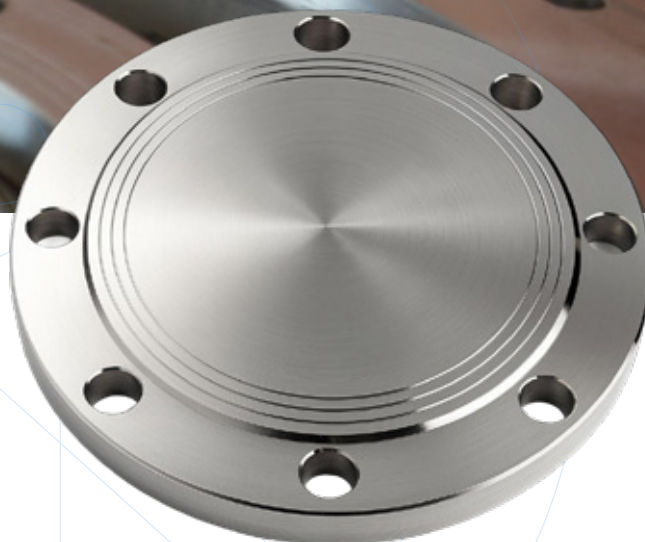
Drinking water networks
Bulk water storage
Process water systems
Pump stations
Sewage water networks
Irrigation projects

Approvals/Standards

Manufactured according to internationally recognized flange systems including GB, ASME, JIS and DIN standards, providing compatibility with a broad variety of piping specifications and international projects.

Applicable manufacturing standards may include

HG/T 20592, HG/T 20615, GB/T 9119, JB/T 81,
NB/T 47020-NB/T 47027, ASME B16.5, JIS B2238/JIS B2239
and applicable DIN standards,
according to the required dimensions and configuration.



Range

DN10-2000

GENERAL CHARACTERISTICS

600A Blind Flange (BL) is designed to provide a secure and reliable closure for the end of a pipeline, valve, pressure vessel nozzle or other flanged connection.

Unlike standard flanges, a blind flange has no central bore, allowing it to completely seal the flow path while maintaining a removable bolted connection

Flanges can also be customized according to customer drawings and specific project requirements, including dimensions, material, pressure rating, flange facing, drilling pattern and applicable standard.

REMARKS

The suitability and performance of the product may vary depending on the specific installation, operating environment and application requirements.

Before use, the end user must ensure that the product is appropriate for the intended purpose and verify its correct operation under the actual conditions in which it will be installed.

All installation and maintenance activities should be performed by qualified personnel and in accordance with current technical regulations, applicable standards and accepted industry practices.

MATERIALS

Depending on project requirements, the 600A Blind Flange is available in sizes from approximately 3/8" up to 80" = DN10 up to DN2000, with nominal pressure ratings ranging from PN2.5 bar up to PN100 bar and ASME pressure classes from Class 150 up to Class 1500, depending on the selected size, material, standard and configuration.

A broad selection of materials can also be supplied to meet different mechanical, temperature and corrosion-resistance requirements, including Q235, A105, 20#, 20G, 16Mn, Q245R, Q345R, S304, S304L, S316, S316L and other alloy materials

STANDARDS

Blind flanges are available according to EN 1092-1 Type 05 for PN-designated systems and ASME B16.5 for Class-designated applications.

Dimensions according to DIN 2527 can also be supplied for compatibility with existing installations. DIN 2527 is a withdrawn legacy standard and has been superseded by EN 1092-1.

Other standards, such as AWWA C207, BS 10, JIS B 2220 or other project-specific requirements, may also be available upon request. Please contact us for additional standards or special requirements.



Components may be replaced with materials of equivalent or superior grade without prior notice, in accordance with our continuous improvement policy.

EN 1092 - 1 EUROPEAN STANDARD FLANGES

EN 1092-1 Standard

EN 1092-1 is the current European standard for circular steel flanges designated by PN. It defines flange types, dimensions, pressure-temperature ratings, tolerances, materials and marking requirements for piping systems, valves, fittings and related equipment. Blind flanges are identified as Type 05 under this standard.

EN 1092-1 Type 05 Dimension Tables

The following tables provide the principal dimensions for Type 05 Blind Flanges according to the applicable PN rating. They include nominal size, outside diameter, flange thickness, bolt circle diameter, number of bolt holes and bolt-hole diameter.

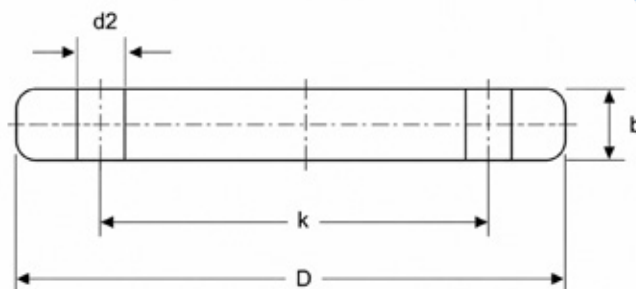
These dimensions ensure dimensional compatibility between flanges and mating equipment manufactured to the same EN 1092-1 pressure rating and nominal size.





Ref. 600A DAVINCI BLIND FLANGES

- DN = Dimensions in mm
- D = outside diameter
- b = C4 minimum flange thickness
- k = bolt circle diameter
- d2 = bolt-hole diameter
- KG = approximate theoretical mas



EN 1092-1:2018 — TYPE 05 BLIND FLANGES
PN6

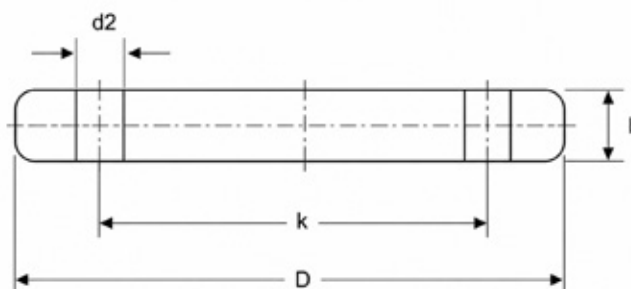
DN	No. of holes	D	b	k	d2	KG
10	4	75	12	50	11	0,38
15	4	80	12	55	11	0,44
20	4	90	14	65	11	0,66
25	4	100	14	75	11	0,82
32	4	120	14	90	14	1,18
40	4	130	14	100	14	1,39
50	4	140	14	110	14	1,62
65	4	160	14	130	14	2,14
80	4	190	16	150	18	3,43
100	4	210	16	170	18	4,22
125	8	240	18	200	18	6,10
150	8	265	18	225	18	7,51
200	8	320	20	280	18	12,31
250	12	375	22	335	18	18,55
300	12	440	22	395	22	25,47
350	12	490	22	445	22	31,78
400	16	540	22	495	22	38,50
450	16	595	24	550	22	51,24
500	20	645	24	600	22	60,13
600	20	755	30	705	26	102,93
700	24	860	40	810	26	178,40
800	24	975	44	920	30	252,02
900	24	1075	48	1020	30	335,60
1000	28	1175	52	1120	30	434,55

Components may be replaced with materials of equivalent or superior grade without prior notice, in accordance with our continuous improvement policy.



Ref. 600A DAVINCI BLIND FLANGES

- DN = Dimensions in mm
- D = outside diameter
- b = C4 minimum flange thickness
- k = bolt circle diameter
- d2 = bolt-hole diameter
- KG = approximate theoretical mas



EN 1092-1:2018 — TYPE 05 BLIND FLANGES
PN10

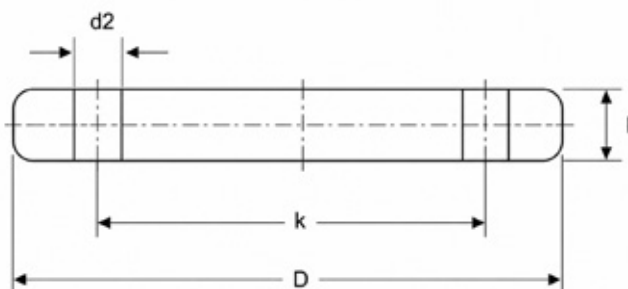
DN	No. of holes	D	b	k	d2	KG
10	4	90	16	60	14	0,72
15	4	95	16	65	14	0,81
20	4	105	18	75	14	1,14
25	4	115	18	85	14	1,38
32	4	140	18	100	18	2,03
40	4	150	18	110	18	2,35
50	4	165	18	125	18	2,88
65	8	185	18	145	18	3,51
80	8	200	20	160	18	4,61
100	8	220	20	180	18	5,65
125	8	250	22	210	18	8,13
150	8	285	22	240	22	10,49
200	8	340	24	295	22	16,53
250	12	395	26	350	22	24,08
300	12	445	26	400	22	30,81
350	16	505	26	460	22	39,64
400	16	565	26	515	26	49,44
450	20	615	28	565	26	62,96
500	20	670	28	620	26	75,16
600	20	780	34	725	30	123,76
700	24	895	38	840	30	182,61
800	24	1015	48	950	33	297,15
900	28	1115	50	1050	33	373,85
1000	28	1230	54	1160	36	491,61

Components may be replaced with materials of equivalent or superior grade without prior notice, in accordance with our continuous improvement policy.



Ref. 600A DAVINCI BLIND FLANGES

- DN = Dimensions in mm
- D = outside diameter
- b = C4 minimum flange thickness
- k = bolt circle diameter
- d2 = bolt-hole diameter
- KG = approximate theoretical mas



EN 1092-1:2018 — TYPE 05 BLIND FLANGES
PN16

DN	No. of holes	D	b	k	d2	KG
10	4	90	16	60	14	0,72
15	4	95	16	65	14	0,81
20	4	105	18	75	14	1,14
25	4	115	18	85	14	1,38
32	4	140	18	100	18	2,03
40	4	150	18	110	18	2,35
50	4	165	18	125	18	2,88
65	8	185	18	145	18	3,51
80	8	200	20	160	18	4,61
100	8	220	20	180	18	5,65
125	8	250	22	210	18	8,13
150	8	285	22	240	22	10,49
200	12	340	24	295	22	16,25
250	12	405	26	355	26	24,99
300	12	460	28	410	26	35,13
350	16	520	30	470	26	48,01
400	16	580	32	525	30	63,53
450	20	640	40	585	30	96,57
500	20	715	44	650	33	132,77
600	20	840	54	770	36	226,29
700	24	910	58	840	36	285,00
800	24	1025	62	950	39	387,65
900	28	1125	64	1050	39	482,59
1000	28	1255	68	1170	42	639,61

Components may be replaced with materials of equivalent or superior grade without prior notice, in accordance with our continuous improvement policy.

Ref. 600A DAVINCI BLIND FLANGES

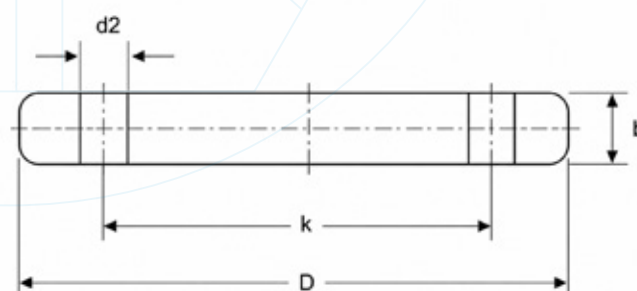


EN 1092-1:2018 — TYPE 05 BLIND FLANGES
PN25

DN	No. of holes	D	b	k	d2	KG
10	4	90	16	60	14	0,72
15	4	95	16	65	14	0,81
20	4	105	18	75	14	1,14
25	4	115	18	85	14	1,38
32	4	140	18	100	18	2,03
40	4	150	18	110	18	2,35
50	4	165	20	125	18	3,20
65	8	185	22	145	18	4,29
80	8	200	24	160	18	5,54
100	8	235	24	190	22	7,60
125	8	270	26	220	26	10,82
150	8	300	28	250	26	14,60
200	12	360	30	310	26	22,47
250	12	425	32	370	30	33,51
300	16	485	34	430	30	46,29
350	16	555	38	490	33	68,08
400	16	620	40	550	36	89,69
450	20	670	50	600	36	130,39
500	20	730	51	660	36	159,41
600	20	845	66	770	39	278,17

Components may be replaced with materials of equivalent or superior grade without prior notice, in accordance with our continuous improvement policy.

- DN = Dimensions in mm
- D = outside diameter
- b = C4 minimum flange thickness
- k = bolt circle diameter
- d2 = bolt-hole diameter
- KG = approximate theoretical mas



Ref. 600A DAVINCI BLIND FLANGES



EN 1092-1:2018 — TYPE 05 BLIND FLANGES
PN40

DN	No. of holes	D	b	k	d2	KG
10	4	90	16	60	14	0,72
15	4	95	16	65	14	0,81
20	4	105	18	75	14	1,14
25	4	115	18	85	14	1,38
32	4	140	18	100	18	2,03
40	4	150	18	110	18	2,35
50	4	165	20	125	18	3,20
65	8	185	22	145	18	4,29
80	8	200	24	160	18	5,54
100	8	235	24	190	22	7,60
125	8	270	26	220	26	10,82
150	8	300	28	250	26	14,60
200	12	375	36	320	30	28,82
250	12	450	38	385	33	44,38
300	16	515	42	450	33	64,17
350	16	580	46	510	36	89,52
400	16	660	50	585	39	126,78
450	20	685	57	610	39	154,21
500	20	755	57	670	42	187,92
600	20	890	72	795	48	331,16

Components may be replaced with materials of equivalent or superior grade without prior notice, in accordance with our continuous improvement policy.

- DN = Dimensions in mm
- D = outside diameter
- b = C4 minimum flange thickness
- k = bolt circle diameter
- d2 = bolt-hole diameter
- KG = approximate theoretical mas



LEGACY DIN 2527 — GERMAN STANDARD FLANGES

DIN 2527 Standard

DIN 2527 was the German standard specifically developed for blind flanges with nominal pressure ratings from PN6 to PN100. **The standard has now been withdrawn and superseded by EN 1092-1.**

DIN 2527 Dimension Tables

Although no longer a current standard, DIN 2527 dimensions remain widely relevant for replacement parts, maintenance work and compatibility with existing installations originally designed according to legacy DIN specifications.

The following tables are therefore provided as a legacy dimensional reference. For new installations, EN 1092-1 Type 05 should normally be considered the current European reference.



Ref. 600A DAVINCI BLIND FLANGES

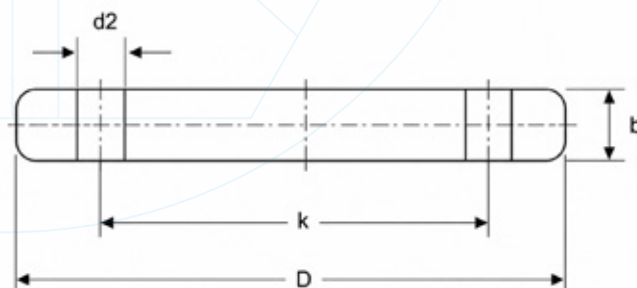


LEGACY STANDARD — DIN 2527:1972-04 — BLIND FLANGES PN6

DN	No. of holes	D	b	k	d2	KG
10	4	75	12	50	11	0,38
15	4	80	12	55	11	0,44
20	4	90	14	65	11	0,65
25	4	100	14	75	11	0,82
32	4	120	14	90	14	1,17
40	4	130	14	100	14	1,39
50	4	140	14	110	14	1,62
65	4	160	14	130	14	2,44
80	4	190	16	150	18	3,43
100	4	210	16	170	18	4,76
125	8	240	18	200	18	6,11
150	8	265	18	225	18	7,51
175	8	295	20	255	18	10,40
200	8	320	20	280	18	12,30
250	12	375	22	335	18	18,30
300	12	440	22	395	22	25,30
350	12	490	22	445	22	31,60
400	16	540	22	495	22	38,40
500	20	645	24	600	22	60,40

Components may be replaced with materials of equivalent or superior grade without prior notice, in accordance with our continuous improvement policy.

- DN = Dimensions in mm
- D = outside diameter
- b = C4 minimum flange thickness
- k = bolt circle diameter
- d2 = bolt-hole diameter
- KG = approximate theoretical mas



Ref. 600A DAVINCI BLIND FLANGES

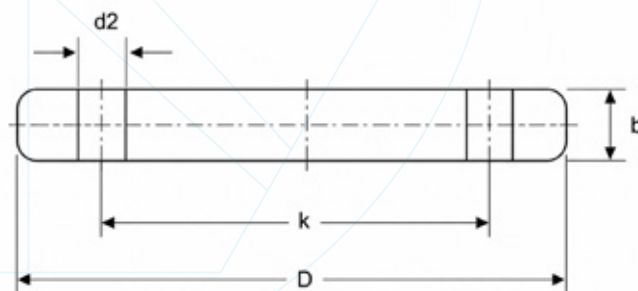


LEGACY STANDARD — DIN 2527:1972-04 — BLIND FLANGES
PN10

DN	No. of holes	D	b	k	d2	KG
10	4	90	14	60	14	0,63
15	4	95	14	65	14	0,72
20	4	105	16	75	14	1,01
25	4	115	16	85	14	1,23
32	4	140	16	100	18	1,80
40	4	150	16	110	18	2,09
50	4	165	18	125	18	2,88
65	4	185	18	145	18	3,66
80	8	200	20	160	18	4,77
100	8	220	20	180	18	5,65
125	8	250	22	210	18	8,42
150	8	285	22	240	22	10,40
175	8	315	24	270	22	14,00
200	8	340	24	295	22	16,50
250	12	395	26	350	22	24,00
300	12	445	26	400	22	30,90
350	16	505	26	460	26	40,60
400	16	565	26	515	26	49,40
500	20	670	28	620	26	75,00

Components may be replaced with materials of equivalent or superior grade without prior notice, in accordance with our continuous improvement policy.

- DN = Dimensions in mm
- D = outside diameter
- b = C4 minimum flange thickness
- k = bolt circle diameter
- d2 = bolt-hole diameter
- KG = approximate theoretical mas



Ref. 600A DAVINCI BLIND FLANGES

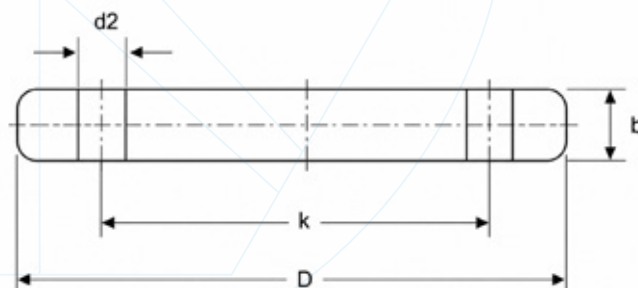


LEGACY STANDARD — DIN 2527:1972-04 — BLIND FLANGES PN16

DN	No. of holes	D	b	k	d2	KG
10	4	90	14	60	14	0,63
15	4	95	14	65	14	0,72
20	4	105	16	75	14	1,01
25	4	115	16	85	14	1,23
32	4	140	16	100	18	1,80
40	4	150	16	110	18	2,09
50	4	165	18	125	18	2,88
65	4	185	18	145	18	3,66
80	8	200	20	160	18	4,77
100	8	220	20	180	18	5,65
125	8	250	22	210	18	8,42
150	8	285	22	240	22	10,40
175	8	315	24	270	22	14,00
200	8	340	24	295	22	16,10
250	12	405	26	355	26	24,90
300	12	460	28	410	26	35,10
350	16	520	30	470	26	47,80
400	16	580	32	525	30	63,50
500	20	715	36	650	33	102,00

Components may be replaced with materials of equivalent or superior grade without prior notice, in accordance with our continuous improvement policy.

- DN = Dimensions in mm
- D = outside diameter
- b = C4 minimum flange thickness
- k = bolt circle diameter
- d2 = bolt-hole diameter
- KG = approximate theoretical mas



Ref. 600A DAVINCI BLIND FLANGES

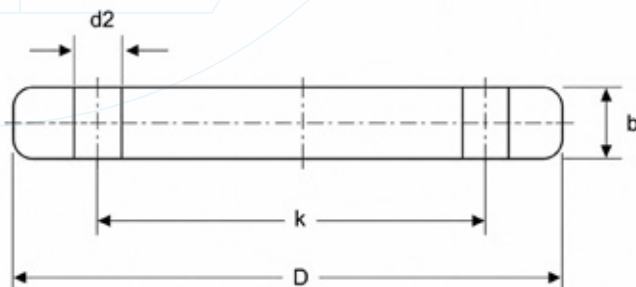


LEGACY STANDARD — DIN 2527:1972-04 — BLIND FLANGES
PN25

DN	No. of holes	D	b	k	d2	KG
10	4	90	16	60	14	0,72
15	4	95	16	65	14	0,81
20	4	105	18	75	14	1,24
25	4	115	18	85	14	1,38
32	4	140	18	100	18	2,03
40	4	150	18	110	18	2,35
50	4	165	20	125	18	3,20
65	8	185	22	145	18	4,29
80	8	200	24	160	18	5,88
100	8	235	24	190	22	7,54
125	8	270	26	220	26	10,80
150	8	300	28	250	26	14,50
175	12	330	28	280	26	17,30
200	12	360	30	310	26	22,30
250	12	425	32	370	30	33,50
300	12	485	34	430	30	46,30
350	16	555	38	490	33	68,00
400	16	620	40	550	36	89,70
500	20	730	45	660	36	138,00

Components may be replaced with materials of equivalent or superior grade without prior notice, in accordance with our continuous improvement policy.

- DN = Dimensions in mm
- D = outside diameter
- b = C4 minimum flange thickness
- k = bolt circle diameter
- d2 = bolt-hole diameter
- KG = approximate theoretical mas



Ref. 600A DAVINCI BLIND FLANGES



LEGACY STANDARD — DIN 2527:1972-04 — BLIND FLANGES
PN40

DN	No. of holes	D	b	k	d2	KG
10	4	90	16	60	14	0,72
15	4	95	16	65	14	0,81
20	4	105	18	75	14	1,24
25	4	115	18	85	14	1,38
32	4	140	18	100	18	2,03
40	4	150	18	110	18	2,35
50	4	165	20	125	18	3,20
65	8	185	22	145	18	4,29
80	8	200	24	160	18	5,88
100	8	235	24	190	22	7,54
125	8	270	26	220	26	10,80
150	8	300	28	250	26	14,50
175	12	350	32	295	30	22,10
200	12	375	34	320	30	27,20
250	12	450	38	385	33	43,80
300	12	515	42	450	33	63,30
350	16	580	46	510	36	89,50
400	16	660	50	585	39	127,00
500	20	755	56	670	42	172,00

Components may be replaced with materials of equivalent or superior grade without prior notice, in accordance with our continuous improvement policy.

- DN = Dimensions in mm
- D = outside diameter
- b = C4 minimum flange thickness
- k = bolt circle diameter
- d2 = bolt-hole diameter
- KG = approximate theoretical mas



Ref. 600A DAVINCI BLIND FLANGES

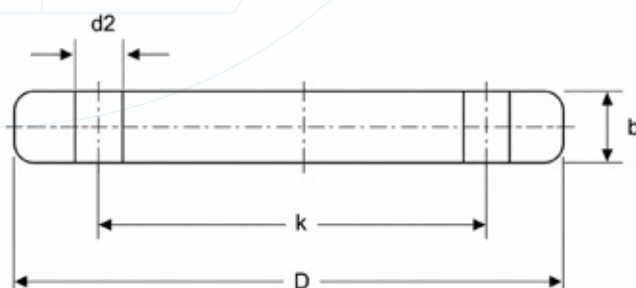


LEGACY STANDARD — DIN 2527:1972-04 — BLIND FLANGES
PN64

DN	No. of holes	D	b	k	d2	KG
10	4	100	20	70	14	1,00
15	4	105	20	75	14	1,22
25	4	140	24	100	18	2,65
32	4	155	24	110	22	3,24
40	4	170	26	125	22	4,09
50	4	180	26	135	22	4,51
65	8	205	26	160	22	5,71
80	8	215	28	170	22	6,92
100	8	250	30	200	26	10,10
125	8	295	34	240	30	16,00
150	8	345	36	280	33	23,50
175	12	375	40	310	33	30,80
200	12	415	42	345	36	39,70
250	12	470	46	400	36	57,40
300	16	530	52	460	36	81,00
350	16	600	56	525	39	114,00
400	16	670	60	585	42	153,00

Components may be replaced with materials of equivalent or superior grade without prior notice, in accordance with our continuous improvement policy.

- DN = Dimensions in mm
- D = outside diameter
- b = C4 minimum flange thickness
- k = bolt circle diameter
- d2 = bolt-hole diameter
- KG = approximate theoretical mas



Ref. 600A DAVINCI BLIND FLANGES

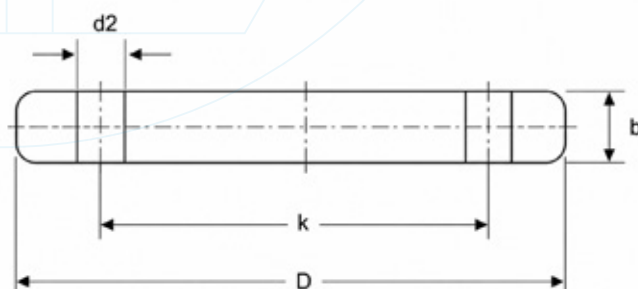


**LEGACY STANDARD — DIN 2527:1972-04 — BLIND FLANGES
PN100**

DN	No. of holes	D	b	k	d2	KG
10	4	100	20	70	14	1,00
15	4	105	20	75	14	1,22
25	4	140	24	100	18	2,65
32	4	155	24	110	22	3,24
40	4	170	26	125	22	4,09
50	4	195	28	145	26	5,84
65	8	220	30	170	26	8,03
80	8	230	32	180	26	9,43
100	8	265	36	210	30	14,30
125	8	315	40	250	33	22,60
150	12	355	44	290	33	31,80
175	12	385	48	320	33	41,30
200	12	430	52	360	36	56,10
250	12	505	60	430	39	89,60
300	16	585	68	500	42	119,00
350	16	655	74	560	48	175,00

Components may be replaced with materials of equivalent or superior grade without prior notice, in accordance with our continuous improvement policy.

- DN = Dimensions in mm
- D = outside diameter
- b = C4 minimum flange thickness
- k = bolt circle diameter
- d2 = bolt-hole diameter
- KG = approximate theoretical mas



ASME B16.5 — CLASS 150 / CLASS 300

ASME B16.5 Standard

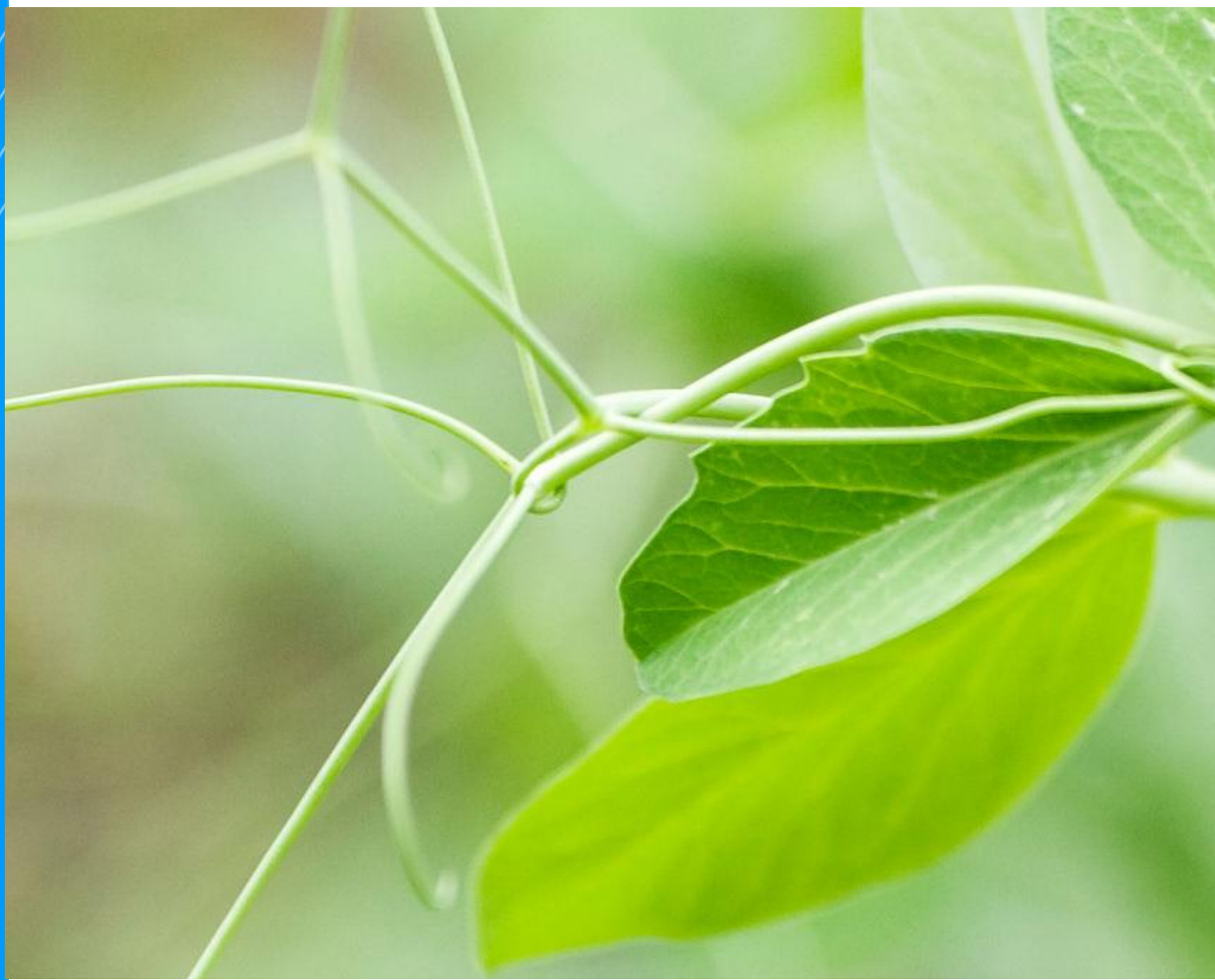
ASME B16.5 is a widely used international standard for pipe flanges and flanged fittings, covering sizes from NPS 1/2 through NPS 24. Although developed in the United States, it is specified in industrial and infrastructure projects worldwide, particularly in North America, Latin America, the Middle East and Asia.

The standard defines pressure-temperature ratings, materials, dimensions, tolerances, marking and testing requirements. Blind flanges are included within its scope and may be manufactured from forged, cast or plate material in accordance with the applicable requirements.

BS 10 Dimension Tables

The following tables provide dimensions for Class 150 and Class 300 Blind Flanges, including nominal pipe size, outside diameter, bolt circle, flange thickness, number and diameter of bolt holes and raised-face dimensions where applicable.

Unlike EN standards, ASME B16.5 uses NPS and Class designations rather than DN and PN. The applicable standard, nominal size and pressure Class should therefore always be specified when ordering..



Ref. 600A DAVINCI BLIND FLANGES

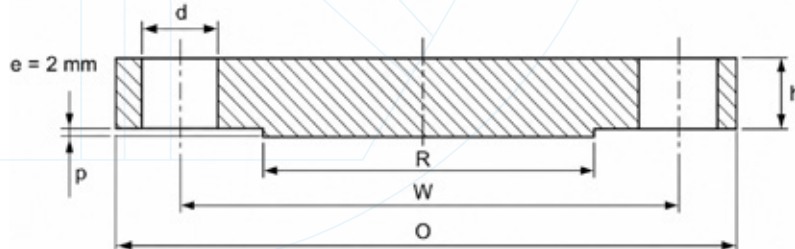


ASME STANDARD — ASME B16.5-2025 — BLIND FLANGES RF CLASS 150

DN	NPS	O (mm)	W (mm)	R (mm)	b min. (mm)	Hole Ø (in)	Hole Ø (mm)	No. of holes	Bolt Ø (in)	Approx. weight (kg)
15	1/2	88,9	60,5	35,1	11,2	5/8	15,88	4	1/2	0,4
20	3/4	98,6	69,9	42,9	12,7	5/8	15,88	4	1/2	0,7
25	1	108,0	79,3	50,8	14,2	5/8	15,88	4	1/2	0,9
32	1 1/4	117,4	88,9	63,5	15,8	5/8	15,88	4	1/2	1,3
40	1 1/2	127,0	98,6	73,2	17,5	5/8	15,88	4	1/2	1,6
50	2	152,4	120,7	92,0	19,1	3/4	19,05	4	5/8	2,6
65	2 1/2	177,8	139,7	104,7	22,4	3/4	19,05	4	5/8	4,1
80	3	190,5	152,4	127,0	23,9	3/4	19,05	4	5/8	5,0
100	4	228,6	190,5	157,2	23,9	3/4	19,05	8	5/8	7,1
125	5	254,0	215,9	185,7	23,9	7/8	22,23	8	3/4	9,0
150	6	279,4	241,3	215,9	25,4	7/8	22,23	8	3/4	11,8
200	8	342,9	298,5	269,8	28,5	7/8	22,23	8	3/4	21,0
250	10	406,4	362,0	323,9	30,2	1	25,40	12	7/8	30,0
300	12	482,6	431,8	381,0	31,8	1	25,40	12	7/8	45,0
350	14	533,4	476,3	412,8	35,1	1 1/8	28,58	12	1	59,0
400	16	596,9	539,8	469,9	36,6	1 1/8	28,58	16	1	79,0
450	18	635,0	577,9	533,4	39,6	1 1/4	31,75	16	1 1/8	97,0
500	20	698,5	635,0	584,2	42,9	1 1/4	31,75	20	1 1/8	124,0
600	24	812,8	749,3	692,2	47,8	1 3/8	34,93	20	1 1/4	188,0

Technical note: ASME B16.5 Class is a pressure-temperature rating designation, not a direct bar value.
Class 150 and Class 300 have different drilling patterns and are not interchangeable.
Approximate weights are reference values and can vary slightly by manufacturer and facing details.

- DN = Nominal Diameter Size
 - NPS = Nominal Pipe Size
 - O = outside (external) diameter
 - W = Distance between holes
 - R = Seat
 - tf = Minimum thickness Flange
 - d = Diameter of bolt hole (in mm / in inches)
- Bolting
- nr = Number
 - d = Diameter of bolt hole



Ref. 600A DAVINCI BLIND FLANGES


**ASME STANDARD — ASME B16.5-2025 — BLIND FLANGES RF
CLASS 300**

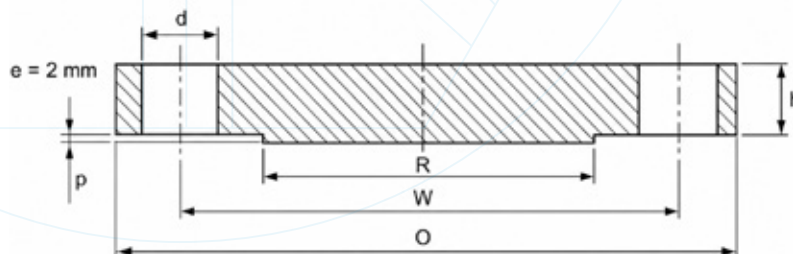
DN	NPS	O (mm)	W (mm)	R (mm)	b min. (mm)	Hole Ø (in)	Hole Ø (mm)	No. of holes	Bolt Ø (in)	Approx. weight (kg)
15	1/2	95,3	66,6	35,1	14,2	5/8	15,88	4	1/2	0,7
20	3/4	117,4	82,6	42,9	15,8	3/4	19,05	4	5/8	1,2
25	1	124,0	88,9	50,8	17,5	3/4	19,05	4	5/8	1,5
32	1 1/4	133,4	98,6	63,5	19,1	3/4	19,05	4	5/8	2,0
40	1 1/2	155,5	114,3	73,2	20,6	7/8	22,23	4	3/4	2,9
50	2	165,1	127,0	92,0	22,4	3/4	19,05	8	5/8	3,4
65	2 1/2	190,5	149,4	104,7	25,4	7/8	22,23	8	3/4	5,1
80	3	209,6	168,2	127,0	28,5	7/8	22,23	8	3/4	7,0
100	4	254,0	200,2	157,2	31,8	7/8	22,23	8	3/4	11,8
125	5	279,4	235,0	185,7	35,1	7/8	22,23	8	3/4	15,5
150	6	317,5	269,8	215,9	36,6	7/8	22,23	12	3/4	21,3
200	8	381,0	330,2	269,8	41,2	1	25,40	12	7/8	35,2
250	10	444,5	387,4	323,9	47,8	1 1/8	28,58	16	1	57,0
300	12	520,7	450,9	381,0	50,8	1 1/4	31,75	16	1 1/8	82,0
350	14	584,2	514,4	412,8	53,9	1 1/4	31,75	20	1 1/8	106,0
400	16	647,7	571,5	469,9	57,2	1 3/8	34,93	20	1 1/4	140,0
450	18	711,2	628,7	533,4	60,5	1 3/8	34,93	24	1 1/4	178,0
500	20	774,7	685,8	584,2	63,5	1 3/8	34,93	24	1 1/4	223,0
600	24	914,4	812,8	692,2	69,9	1 5/8	41,28	24	1 1/2	345,0

Technical note: ASME B16.5 Class is a pressure-temperature rating designation, not a direct bar value.
Class 150 and Class 300 have different drilling patterns and are not interchangeable.
Approximate weights are reference values and can vary slightly by manufacturer and facing details.

- DN = Nominal Diameter Size
- NPS = Nominal Pipe Size
- O = outside (external) diameter
- W = Distance between holes
- R = Seat
- tf = Minimum thickness Flange
- d = Diameter of bolt hole (in mm / in inches)

Bolting

- nr = Number
- d = Diameter of bolt hole



BS 10:2009 — BRITISH STANDARD FLANGES

BS 10 Standard

BS 10:2009 is a current British Standard specifying requirements for flanges and bolting used with pipes, valves and fittings. It covers carbon steel, alloy steel, cast iron and copper-alloy flanges for services including water, steam, oil and compressed air.

BS 10 Dimension Tables

BS 10 uses traditional Table designations, such as Tables D, E, F and H, to define flange dimensions and associated pressure-temperature capabilities.

The following tables provide the dimensional information applicable to the flange configuration offered in this technical sheet, including outside diameter, bolt-circle diameter, flange thickness and bolting arrangement. BS 10 remains particularly relevant for existing

British-standard installations and projects where these traditional flange patterns are specified. By adhering to these standards, you can ensure that your piping system will operate safely and efficiently and that the flanges used in the system will be of the best quality.



Ref. 600A DAVINCI BLIND FLANGES



BRITISH STANDARD — BS 10:2009 PLATE BLIND FLANGES RF
TABLE D

DN / nom. mm	NPS	No. of holes	D (mm)	b (mm)	k (mm)	d2 (mm)	KG
15	1/2	4	95,30	12,70	66,70	14,00	0,65
20	3/4	4	101,60	12,70	73,00	14,00	0,75
25	1	4	114,30	12,70	82,60	14,00	0,96
32	1 1/4	4	120,70	12,70	87,30	14,00	1,08
40	1 1/2	4	133,40	12,70	98,40	14,00	1,33
50	2	4	152,40	12,70	114,30	18,00	1,72
65	2 1/2	4	165,10	12,70	127,00	18,00	2,03
80	3	4	184,20	12,70	146,10	18,00	2,56
100	4	4	215,90	12,70	177,80	18,00	3,55
125	5	8	254,00	12,70	209,60	18,00	4,85
150	6	8	279,40	12,70	235,00	18,00	5,91
200	8	8	336,60	12,70	292,10	18,00	8,67
250	10	8	406,40	16,00	355,60	22,00	15,91
300	12	12	457,20	20,00	406,40	22,00	25,06
350	14	12	527,10	22,20	469,90	24,00	37,08
400	16	12	577,90	22,20	520,70	24,00	44,76
450	18	12	641,40	25,40	584,20	24,00	63,34
500	20	16	704,90	28,60	641,40	26,00	85,71
600	24	16	825,50	31,80	755,70	26,00	131,48

BS 10:2009 remains current and includes water service.

Contractual fabrication should be verified against a licensed copy of BS 10:2009. Other BS 10 tables can be supplied on request if commercially required..

- DN = Nominal Diameter Size
- Tables D / E / F / H shown for water-service reference
- D = outside (external) diameter
- b = minimum plate-blind thickness
- k = bolt circle diameter
- d2 = bolt-hole diameter
- KG = theoretical plate mass

Ref. 600A DAVINCI BLIND FLANGES



BRITISH STANDARD — BS 10:2009 PLATE BLIND FLANGES RF
TABLE E

DN / nom. mm	NPS	No. of holes	D (mm)	b (mm)	k (mm)	d2 (mm)	KG
15	1/2	4	95,30	12,70	66,70	14,00	0,65
20	3/4	4	101,60	12,70	73,00	14,00	0,75
25	1	4	114,30	12,70	82,60	14,00	0,96
32	1 1/4	4	120,70	12,70	87,30	14,00	1,08
40	1 1/2	4	133,40	12,70	98,40	14,00	1,33
50	2	4	152,40	12,70	114,30	18,00	1,72
65	2 1/2	4	165,10	12,70	127,00	18,00	2,03
80	3	4	184,20	12,70	146,10	18,00	2,56
100	4	8	215,90	12,70	177,80	18,00	3,45
125	5	8	254,00	14,30	209,60	18,00	5,46
150	6	8	279,40	17,50	235,00	22,00	8,00
200	8	8	336,60	19,10	292,10	22,00	12,89
250	10	12	406,40	22,20	355,60	22,00	21,81
300	12	12	457,20	25,40	406,40	24,00	31,65
350	14	12	527,10	28,60	469,90	24,00	47,77
400	16	12	577,90	31,80	520,70	24,00	64,12
450	18	16	641,40	34,90	584,20	24,00	86,54
500	20	16	704,90	38,10	641,40	24,00	114,55
600	24	16	825,50	47,60	755,70	30,00	195,76

BS 10:2009 remains current and includes water service.

Contractual fabrication should be verified against a licensed copy of BS 10:2009. Other BS 10 tables can be supplied on request if commercially required..

- DN = Nominal Diameter Size
- Tables D / E / F / H shown for water-service reference
- D = outside (external) diameter
- b = minimum plate-blind thickness
- k = bolt circle diameter
- d2 = bolt-hole diameter
- KG = theoretical plate mass



Ref. 600A DAVINCI BLIND FLANGES



BRITISH STANDARD — BS 10:2009 PLATE BLIND FLANGES RF
TABLE F

DN / nom. mm	NPS	No. of holes	D (mm)	b (mm)	k (mm)	d2 (mm)	KG
15	1/2	4	95,30	12,70	66,70	14,00	0,65
20	3/4	4	101,60	12,70	73,00	14,00	0,75
25	1	4	120,70	12,70	87,30	18,00	1,04
32	1 1/4	4	133,40	12,70	98,40	18,00	1,29
40	1 1/2	4	139,70	12,70	104,80	18,00	1,43
50	2	4	165,40	15,90	127,00	18,00	2,55
65	2 1/2	8	184,20	15,90	146,10	18,00	3,07
80	3	8	203,20	15,90	165,10	18,00	3,79
100	4	8	228,60	19,10	190,50	18,00	5,85
125	5	8	279,40	22,20	235,00	22,00	10,15
150	6	12	304,80	22,20	260,40	22,00	11,92
200	8	12	368,30	25,40	323,90	22,00	20,33
250	10	12	431,80	28,60	381,00	25,00	31,55
300	12	16	489,00	31,80	438,20	25,00	44,92
350	14	16	552,50	34,90	495,30	26,00	63,36
400	16	20	609,60	41,30	552,50	26,00	91,18
450	18	20	673,10	44,50	609,60	30,00	119,36
500	20	24	736,60	50,80	673,10	32,00	162,24
600	24	24	850,90	57,20	781,10	33,00	246,12

BS 10:2009 remains current and includes water service.

Contractual fabrication should be verified against a licensed copy of BS 10:2009. Other BS 10 tables can be supplied on request if commercially required..

- DN = Nominal Diameter Size
- Tables D / E / F / H shown for water-service reference
- D = outside (external) diameter
- b = minimum plate-blind thickness
- k = bolt circle diameter
- d2 = bolt-hole diameter
- KG = theoretical plate mass

Ref. 600A DAVINCI BLIND FLANGES



BRITISH STANDARD — BS 10:2009 PLATE BLIND FLANGES RF
TABLE H

DN / nom. mm	NPS	No. of holes	D (mm)	b (mm)	k (mm)	d2 (mm)	KG
15	1/2	4	114,30	12,70	82,60	18,00	0,92
20	3/4	4	114,30	12,70	82,60	18,00	0,92
25	1	4	120,70	14,30	87,30	18,00	1,17
32	1 1/4	4	133,40	17,50	98,40	18,00	1,78
40	1 1/2	4	139,70	17,50	104,80	18,00	1,97
50	2	4	165,10	19,00	127,00	18,00	3,04
65	2 1/2	8	184,10	19,00	146,00	18,00	3,67
80	3	8	203,20	22,20	165,10	18,00	5,30
100	4	8	228,60	25,40	190,50	18,00	7,78
125	5	8	279,40	28,60	235,00	22,00	13,08
150	6	12	304,80	28,60	260,30	22,00	15,36
200	8	12	368,30	31,80	323,90	22,00	25,46
250	10	12	431,80	34,90	381,00	24,00	38,63
300	12	16	489,00	41,30	438,20	24,00	58,54

BS 10:2009 remains current and includes water service.

Contractual fabrication should be verified against a licensed copy of BS 10:2009. Other BS 10 tables can be supplied on request if commercially required..

- DN = Nominal Diameter Size
- Tables D / E / F / H shown for water-service reference
- D = outside (external) diameter
- b = minimum plate-blind thickness
- k = bolt circle diameter
- d2 = bolt-hole diameter
- KG = theoretical plate mass



CONTACT US

DAVINCI VALVES ORDER REQUEST

Ref. 600 A



Head Office CHENGDU

Room 3208 Unit 1 Building 1,
No. 6 Zhiquan Section, Dongda Street
Jinjiang District, Chengdu, Sichuan
CHINA

+86 17340168233 +86 19302892712
valves@davincivalves.com

Europe Office MADRID
SPAIN
zuzana@davincivalves.com

WEBSITE

davincivalves.com

YOUR QUALITY WATER PROJECTS PARTNER
For professionals who look for more.