

**BLAZE**

EN BS DIN Pipe Flange

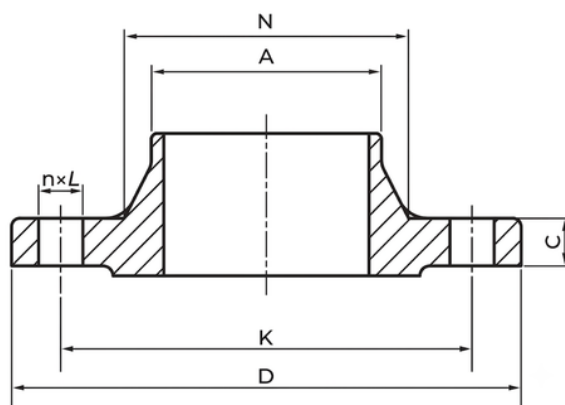
Welding Neck Flange

Description :

Welding Neck Flanges are manufactured with a long, tapered hub that matches the bore of the connecting pipe, allowing for a full-penetration butt weld. This design provides excellent strength by transferring stress evenly from the flange to the pipe, making it ideal for high-pressure, high-temperature and critical service applications.

Specifications :

Size	1/2" to 12" (DN15 to DN300)
Certificate	ISO
Standard	EN 1092-1 Type 11
Material	Forged steel as EN 10025 S235JR
Pressure Rating	PN 6 / PN 10 / PN 16 / PN 25 / PN 40
Flange Facing	FF / RF / MF / TG / RJ
Finish	Oiled / Galvanized



Product Dimensions for PN 6 :

Size		Outside Diameter	Neck Diameter	Neck end OD.	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	N (mm)	A (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	80	30	21.3	12	55	4 x M10	0.41
20	26.9	90	38	26.9	14	65	4 x M10	0.62
25	33.7	100	42	33.7	14	75	4 x M10	0.76
32	42.4	120	55	42.4	14	90	4 x M12	1.11
40	48.3	130	62	48.3	14	100	4 x M12	1.26
50	60.3	140	74	60.3	14	110	4 x M12	1.43
65	76.1	160	88	76.1	14	130	4 x M12	1.77
80	88.9	190	102	88.9	16	150	4 x M16	2.88
100	114.3	210	130	114.3	16	170	4 x M16	3.41
125	139.7	240	155	139.7	18	200	8 x M16	4.65
150	168.3	265	184	168.3	18	225	8 x M16	5.50
200	219.1	320	236	219.1	20	280	8 x M16	8.60
250	273.0	375	290	273.0	22	335	12 x M16	11.7
300	323.9	440	342	323.9	22	395	12 x M20	15.3

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EN BS DIN Pipe Flange

Welding Neck Flange

Product Dimensions for PN 10:

Size		Outside Diameter	Neck Diameter	Neck end OD.	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	N (mm)	A (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	32	21.3	16	65	4 x M12	0.77
20	26.9	105	40	26.9	18	75	4 x M12	1.09
25	33.7	115	46	33.7	18	85	4 x M12	1.30
32	42.4	140	56	42.4	18	100	4 x M16	1.91
40	48.3	150	64	48.3	18	110	4 x M16	2.15
50	60.3	165	74	60.3	18	125	4 x M16	2.53
65	76.1	185	92	76.1	18	145	8 x M16	3.03
80	88.9	200	105	88.9	20	160	8 x M16	3.92
100	114.3	220	131	114.3	20	180	8 x M16	4.62
125	139.7	250	156	139.7	22	210	8 x M16	6.30
150	168.3	285	184	168.3	22	240	8 x M20	7.81
200	219.1	340	234	219.1	24	295	8 x M20	11.6
250	273.0	395	292	273.0	26	350	12 x M20	15.8
300	323.9	445	342	323.9	26	400	12 x M20	18.3

Product Dimensions for PN 16 :

Size		Outside Diameter	Neck Diameter	Neck end OD.	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	N (mm)	A (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	32	21.3	16	65	4 x M12	0.77
20	26.9	105	40	26.9	18	75	4 x M12	1.09
25	33.7	115	46	33.7	18	85	4 x M12	1.30
32	42.4	140	56	42.4	18	100	4 x M16	1.91
40	48.3	150	64	48.3	18	110	4 x M16	2.15
50	60.3	165	75	60.3	20	125	4 x M16	2.53
65	76.1	185	90	76.1	22	145	8 x M16	3.03
80	88.9	200	105	88.9	24	160	8 x M16	3.92
100	114.3	220	134	114.3	24	190	8 x M16	4.62
125	139.7	250	162	139.7	26	220	8 x M16	6.30
150	168.3	285	192	168.3	28	250	8 x M20	7.81
200	219.1	340	244	219.1	30	310	12 x M20	11.5
250	273.0	405	298	273.0	32	370	12 x M24	16.7
300	323.9	460	352	323.9	34	430	12 x M24	22.1

Product Dimensions for PN 25:

Size		Outside Diameter	Neck Diameter	Neck end OD.	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	N (mm)	A (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	32	21.3	16	65	4 x M12	0.77
20	26.9	105	40	26.9	18	75	4 x M12	1.09
25	33.7	115	46	33.7	18	85	4 x M12	1.30
32	42.4	140	56	42.4	18	100	4 x M16	1.91
40	48.3	150	64	48.3	18	110	4 x M16	2.15
50	60.3	165	75	60.3	20	125	4 x M16	2.85
65	76.1	185	90	76.1	22	145	8 x M16	3.68
80	88.9	200	105	88.9	24	160	8 x M16	4.78
100	114.3	235	134	114.3	24	190	8 x M20	6.46
125	139.7	270	162	139.7	26	220	8 x M24	8.86
150	168.3	300	192	168.3	28	250	8 x M24	11.7
200	219.1	360	244	219.1	30	310	12 x M24	17.1
250	273.0	425	298	273.0	32	370	12 x M27	24.3
300	323.9	485	352	323.9	34	430	16 x M27	31.8

Product Dimensions for PN 40 :

Size		Outside Diameter	Neck Diameter	Neck end OD.	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	N (mm)	A (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	32	21.3	16	65	4 x M12	0.77
20	26.9	105	40	26.9	18	75	4 x M12	1.09
25	33.7	115	46	33.7	18	85	4 x M12	1.30
32	42.4	140	56	42.4	18	100	4 x M16	1.91
40	48.3	150	64	48.3	18	110	4 x M16	2.15
50	60.3	165	75	60.3	20	125	4 x M16	2.85
65	76.1	185	90	76.1	22	145	8 x M16	3.68
80	88.9	200	105	88.9	24	160	8 x M16	4.78
100	114.3	235	134	114.3	24	190	8 x M20	6.46
125	139.7	270	162	139.7	26	220	8 x M24	8.86
150	168.3	300	192	168.3	28	250	8 x M24	11.7
200	219.1	375	244	219.1	34	320	12 x M27	21.0
250	273.0	450	306	273.0	38	385	12 x M30	34.2
300	323.9	515	362	323.9	42	450	16 x M30	47.6

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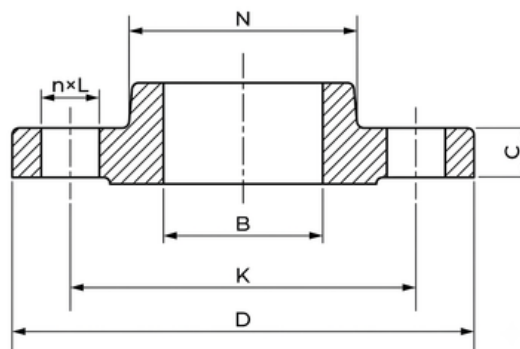
Hubbed Slip-on Flange

Description :

Hubbed Slip-On Flanges are manufactured with an internal diameter slightly larger than the outside diameter of the pipe, allowing the flange to slide easily into position before welding. The connection is secured with double fillet welds, providing simple installation and easy alignment. Their cost-effective design makes them suitable for low to medium pressure applications, particularly in utility systems handling non-flammable and non-explosive media.

Specifications :

Size	1/2" to 12" (DN15 to DN300)
Certificate	ISO
Standard	EN 1092-1 Type 12
Material	Forged steel as EN 10025 S235JR
Pressure Rating	PN 6 / PN 10 / PN 16 / PN 25 / PN 40
Flange Facing	FF / RF / MF / TG
Finish	Oiled / Galvanized



Product Dimensions for PN 6 :

Size		Outside Diameter	Neck Diameter	Neck end OD.	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	N (mm)	A (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	80	30	22.0	12	55	4 x M10	0.37
20	26.9	90	40	27.5	14	65	4 x M10	0.58
25	33.7	100	50	34.5	14	75	4 x M10	0.73
32	42.4	120	60	43.5	14	90	4 x M12	1.04
40	48.3	130	70	49.5	14	100	4 x M12	1.20
50	60.3	140	80	61.5	14	110	4 x M12	1.34
65	76.1	160	100	77.5	14	130	4 x M12	1.83
80	88.9	190	110	90.5	16	150	4 x M16	2.75
100	114.3	210	130	116.0	16	170	4 x M16	3.01
125	139.7	240	160	141.5	18	200	8 x M16	4.30
150	168.3	265	185	170.5	18	225	8 x M16	4.63
200	219.1	320	240	221.5	20	280	8 x M16	6.97
250	273.0	375	295	276.5	22	335	12 x M16	9.13
300	323.9	440	355	327.5	22	395	12 x M20	12.4

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**BLAZE**

EN BS DIN Pipe Flange

Hubbed Slip-on Flange

Product Dimensions for PN 10:

Size		Outside Diameter	Neck Diameter	Neck end OD.	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	N (mm)	A (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	35	22.0	16	65	4 x M12	0.72
20	26.9	105	45	27.5	18	75	4 x M12	1.04
25	33.7	115	52	34.5	18	85	4 x M12	1.25
32	42.4	140	60	43.5	18	100	4 x M16	1.81
40	48.3	150	70	49.5	18	110	4 x M16	2.06
50	60.3	165	84	61.5	18	125	4 x M16	2.39
65	76.1	185	104	77.5	18	145	8 x M16	2.97
80	88.9	200	118	90.5	20	160	8 x M16	3.78
100	114.3	220	140	116.0	20	180	8 x M16	4.38
125	139.7	250	168	141.5	22	210	8 x M16	6.07
150	168.3	285	195	170.5	22	240	8 x M20	7.24
200	219.1	340	246	221.5	24	295	8 x M20	10.1
250	273.0	395	298	276.5	26	350	12 x M20	12.8
300	323.9	445	350	327.5	26	400	12 x M20	14.5

Product Dimensions for PN 16 :

Size		Outside Diameter	Neck Diameter	Neck end OD.	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	N (mm)	A (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	35	22.0	16	65	4 x M12	0.72
20	26.9	105	45	27.5	18	75	4 x M12	1.04
25	33.7	115	52	34.5	18	85	4 x M12	1.25
32	42.4	140	60	43.5	18	100	4 x M16	1.81
40	48.3	150	70	49.5	18	110	4 x M16	2.06
50	60.3	165	84	61.5	18	125	4 x M16	2.39
65	76.1	185	104	77.5	18	145	8 x M16	2.97
80	88.9	200	118	90.5	20	160	8 x M16	3.78
100	114.3	220	140	116.0	20	180	8 x M16	4.38
125	139.7	250	168	141.5	22	210	8 x M16	6.07
150	168.3	285	195	170.5	22	240	8 x M20	7.24
200	219.1	340	246	221.5	24	295	12 x M20	9.80
250	273.0	405	298	276.5	26	355	12 x M24	13.6
300	323.9	460	350	327.5	28	410	12 x M24	17.2

Product Dimensions for PN 25:

Size		Outside Diameter	Neck Diameter	Neck end OD.	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	N (mm)	A (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	35	22	16	65	4 x M12	0.72
20	26.9	105	45	27.5	18	75	4 x M12	1.04
25	33.7	115	52	34.5	18	85	4 x M12	1.25
32	42.4	140	60	43.5	18	100	4 x M16	1.81
40	48.3	150	70	49.5	18	110	4 x M16	2.06
50	60.3	165	84	61.5	20	125	4 x M16	2.74
65	76.1	185	104	77.5	22	145	8 x M16	3.65
80	88.9	200	118	90.5	24	160	8 x M16	4.59
100	114.3	235	145	116.0	24	190	8 x M20	6.10
125	139.7	270	170	141.5	26	220	8 x M24	8.22
150	168.3	300	200	170.5	28	250	8 x M24	10.6
200	219.1	360	256	221.5	30	310	12 x M24	14.9
250	273.0	425	310	276.5	32	370	12 x M27	20.9
300	323.9	485	364	327.5	34	430	16 x M27	27.3

Product Dimensions for PN 40 :

Size		Outside Diameter	Neck Diameter	Neck end OD.	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	N (mm)	A (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	35	22.0	16	65	4 x M12	0.72
20	26.9	105	45	27.5	18	75	4 x M12	1.04
25	33.7	115	52	34.5	18	85	4 x M12	1.25
32	42.4	140	60	43.5	18	100	4 x M16	1.81
40	48.3	150	70	49.5	18	110	4 x M16	2.06
50	60.3	165	84	61.5	20	125	4 x M16	2.74
65	76.1	185	104	77.5	22	145	8 x M16	3.65
80	88.9	200	118	90.5	24	160	8 x M16	4.59
100	114.3	235	145	116.0	24	190	8 x M20	6.10
125	139.7	270	170	141.5	26	220	8 x M24	8.22
150	168.3	300	200	170.5	28	250	8 x M24	10.6
200	219.1	375	260	221.5	34	320	12 x M27	18.3
250	273.0	450	312	276.5	38	385	12 x M30	28.3
300	323.9	515	380	327.5	42	450	16 x M30	40.4

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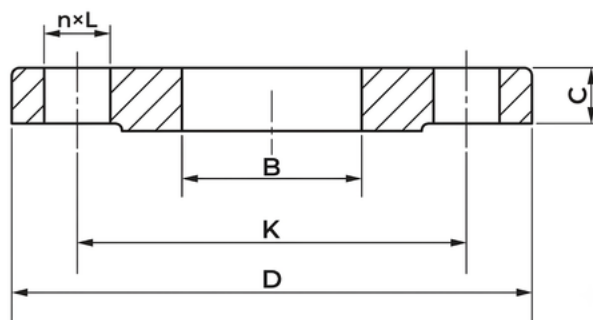
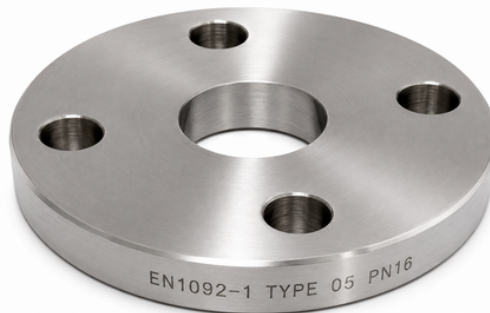
Plate Flange

Description :

Plate Flanges, also known as Flat Flanges or Plain Flanges, are simple flat circular flanges designed for easy installation and reliable pipe connections. They are attached using double fillet welds on both the inside and outside of the flange, providing a secure joint. Their straightforward design and lower material cost make them a cost-effective solution for low to medium pressure piping applications.

Specifications :

Size	1/2" to 12" (DN15 to DN300)
Certificate	ISO
Standard	EN 1092-1 Type 01
Material	Forged steel as EN 10025 S235JR Steel plate as EN 10025 S235JR
Pressure Rating	PN 6 / PN 10 / PN 16 / PN 25 / PN 40
Flange Facing	FF / RF
Finish	Oiled / Galvanized



Product Dimensions for PN 6 :

Size		Outside Diameter	Bore Diameter	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	B (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	80	22.0	12	55	4 x M10	0.40
20	26.9	90	27.5	14	65	4 x M10	0.59
25	33.7	100	34.5	14	75	4 x M10	0.72
32	42.4	120	43.5	16	90	4 x M12	1.16
40	48.3	130	49.5	16	100	4 x M12	1.35
50	60.3	140	61.5	16	110	4 x M12	1.48
65	76.1	160	77.5	16	130	4 x M12	1.86
80	88.9	190	90.5	18	150	4 x M16	2.95
100	114.3	210	116.0	18	170	4 x M16	3.26
125	139.7	240	141.5	20	200	8 x M16	4.31
150	168.3	265	170.5	20	225	8 x M16	4.76
200	219.1	320	221.5	22	280	8 x M16	6.88
250	273.0	375	276.5	24	335	12 x M16	8.92
300	323.9	440	327.5	24	395	12 x M20	11.9

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**BLAZE**

EN BS DIN Pipe Flange Plate Flange

Product Dimensions for PN 10:

Size		Outside Diameter	Bore Diameter	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	B (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	22.0	14	65	4 x M12	0.67
20	26.9	105	27.5	16	75	4 x M12	0.94
25	33.7	115	34.5	16	85	4 x M12	1.11
32	42.4	140	43.5	18	100	4 x M16	1.82
40	48.3	150	49.5	18	110	4 x M16	2.08
50	60.3	165	61.5	19	125	4 x M16	2.73
65	76.1	185	77.5	20	145	8 x M16	3.16
80	88.9	200	90.5	20	160	8 x M16	3.60
100	114.3	220	116.0	22	180	8 x M16	4.39
125	139.7	250	141.5	22	210	8 x M16	5.41
150	168.3	285	170.5	24	240	8 x M20	7.14
200	219.1	340	221.5	24	295	8 x M20	9.27
250	273.0	395	276.5	26	350	12 x M20	11.8
300	323.9	445	327.5	26	400	12 x M20	13.6

Product Dimensions for PN 16 :

Size		Outside Diameter	Bore Diameter	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	B (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	22.0	14	65	4 x M12	0.67
20	26.9	105	27.5	16	75	4 x M12	0.94
25	33.7	115	34.5	16	85	4 x M12	1.11
32	42.4	140	43.5	18	100	4 x M16	1.82
40	48.3	150	49.5	18	110	4 x M16	2.08
50	60.3	165	61.5	19	125	4 x M16	2.73
65	76.1	185	77.5	20	145	8 x M16	3.16
80	88.9	200	90.5	20	160	8 x M16	3.60
100	114.3	220	116.0	22	180	8 x M16	4.39
125	139.7	250	141.5	22	210	8 x M16	5.41
150	168.3	285	170.5	24	240	8 x M20	7.14
200	219.1	340	221.5	26	295	12 x M20	9.73
250	273.0	405	276.5	29	355	12 x M24	14.2
300	323.9	460	327.5	32	410	12 x M24	19.0

Product Dimensions for PN 25:

Size		Outside Diameter	Bore Diameter	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	B (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	22	14	65	4 x M12	0.67
20	26.9	105	27.5	16	75	4 x M12	0.94
25	33.7	115	34.5	16	85	4 x M12	1.11
32	42.4	140	43.5	18	100	4 x M16	1.82
40	48.3	150	49.5	18	110	4 x M16	2.08
50	60.3	165	61.5	20	125	4 x M16	2.73
65	76.1	185	77.5	22	145	8 x M16	3.48
80	88.9	200	90.5	24	160	8 x M16	4.32
100	114.3	235	116.0	26	190	8 x M20	6.07
125	139.7	270	141.5	28	220	8 x M24	8.19
150	168.3	300	170.5	30	250	8 x M24	10.3
200	219.1	360	221.5	32	310	12 x M24	14.3
250	273.0	425	276.5	35	370	12 x M27	20.1
300	323.9	485	327.5	38	430	16 x M27	26.6

Product Dimensions for PN 40 :

Size		Outside Diameter	Bore Diameter	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	B (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	22.0	14	65	4 x M12	0.67
20	26.9	105	27.5	16	75	4 x M12	0.94
25	33.7	115	34.5	16	85	4 x M12	1.11
32	42.4	140	43.5	18	100	4 x M16	1.82
40	48.3	150	49.5	18	110	4 x M16	2.08
50	60.3	165	61.5	20	125	4 x M16	2.73
65	76.1	185	77.5	22	145	8 x M16	3.48
80	88.9	200	90.5	24	160	8 x M16	4.32
100	114.3	235	116.0	26	190	8 x M20	6.07
125	139.7	270	141.5	28	220	8 x M24	8.19
150	168.3	300	170.5	30	250	8 x M24	10.3
200	219.1	375	221.5	36	320	12 x M27	17.9
250	273.0	450	276.5	42	385	12 x M30	29.3
300	323.9	515	327.5	48	450	16 x M30	45.1

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**BLAZE**

EN BS DIN Pipe Flange

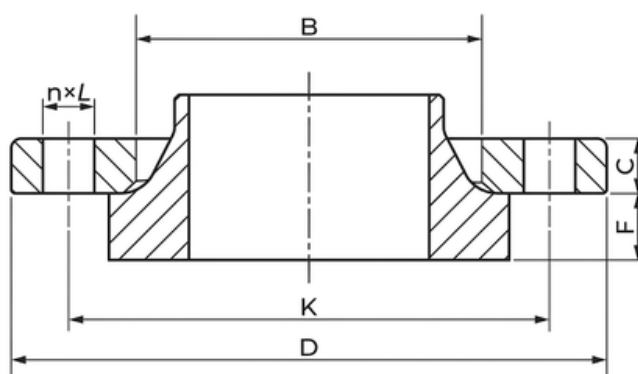
Loose Plate Flange With Weld-Neck Collar

Description :

Loose Plate Flanges with Weld-Neck Collar consist of a plate flange and a separate weld-neck collar. The collar is butt welded to the pipe, while the plate flange provides the bolted connection without coming into contact with the process fluid. The flange rotates freely around the collar, allowing easy bolt-hole alignment during installation. This design is ideal for applications requiring simple assembly, maintenance and reliable performance.

Specifications :

Size	1/2" to 12" (DN15 to DN300)
Certificate	ISO
Standard	EN 1092-1 Type 04 and 34
Material	Forged steel as EN 10025 S235JR
Pressure Rating	PN 10 / PN 16 / PN 25 / PN 40
Flange Facing	FF
Weld-neck Collar	RF
Finish	Oiled / Galvanized



Product Dimensions for PN 10 :

Size		Outside Diameter	Bore Diameter	Flange Thickness	Collar Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	B (mm)	C (mm)	F (mm)	K (mm)	n x L	(kg)
15	21.3	95	35	14	12	65	4 x M12	0.61
20	26.9	105	42	16	14	75	4 x M12	0.84
25	33.7	115	49	16	14	85	4 x M12	0.99
32	42.4	140	59	18	14	100	4 x M16	1.65
40	48.3	150	67	18	14	110	4 x M16	1.85
50	60.3	165	77	19	16	125	4 x M16	2.34
65	76.1	185	96	20	16	145	8 x M16	2.76
80	88.9	200	108	20	16	160	8 x M16	3.17
100	114.3	220	134	22	18	180	8 x M16	3.78
125	139.7	250	162	22	18	210	8 x M16	4.57
150	168.3	285	188	24	20	240	8 x M20	6.20
200	219.1	340	240	24	20	295	8 x M20	7.90
250	273.0	395	294	26	22	350	12 x M20	9.99
300	323.9	445	348	26	22	400	12 x M20	11.1

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**BLAZE**

EN BS DIN Pipe Flange

Loose Plate Flange With Weld-Neck Collar

Product Dimensions for PN 16 :

Size		Outside Diameter	Bore Diameter	Flange Thickness	Collar Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	B (mm)	C (mm)	F (mm)	K (mm)	n x L	(kg)
15	21.3	95	35	14	12	65	4 x M12	0.61
20	26.9	105	42	16	14	75	4 x M12	0.84
25	33.7	115	49	16	14	85	4 x M12	0.99
32	42.4	140	59	18	14	100	4 x M16	1.65
40	48.3	150	67	18	14	110	4 x M16	1.85
50	60.3	165	77	19	16	125	4 x M16	2.34
65	76.1	185	96	20	16	145	4/8 x M16	2.76
80	88.9	200	108	20	16	160	8 x M16	3.17
100	114.3	220	134	22	18	180	8 x M16	3.78
125	139.7	250	162	22	18	210	8 x M16	4.57
150	168.3	285	188	24	20	240	8 x M20	6.22
200	219.1	340	240	26	20	295	12 x M20	8.37
250	273.0	405	294	29	22	355	12 x M24	12.4
300	323.9	460	348	32	24	410	12 x M24	16.3

Product Dimensions for PN 25 :

Size		Outside Diameter	Bore Diameter	Flange Thickness	Collar Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	B (mm)	C (mm)	F (mm)	K (mm)	n x L	(kg)
15	21.3	95	35	14	12	65	4 x M12	0.61
20	26.9	105	42	16	14	75	4 x M12	0.84
25	33.7	115	49	16	14	85	4 x M12	0.99
32	42.4	140	59	18	14	100	4 x M16	1.65
40	48.3	150	67	18	14	110	4 x M16	1.85
50	60.3	165	77	20	16	125	4 x M16	2.47
65	76.1	185	96	22	16	145	8 x M16	3.04
80	88.9	200	114	24	18	160	8 x M16	3.61
100	114.3	235	138	26	20	190	8 x M20	5.18
125	139.7	270	166	28	22	220	8 x M24	6.89
150	168.3	300	194	30	24	250	8 x M24	8.69
200	219.1	360	250	32	26	310	12 x M24	11.6
250	273.0	425	302	35	26	370	12 x M27	17.0
300	323.9	485	356	38	28	430	16 x M27	22.0

Product Dimensions for PN 40 :

Size		Outside Diameter	Bore Diameter	Flange Thickness	Collar Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	B (mm)	C (mm)	F (mm)	K (mm)	n x L	(kg)
15	21.3	95	35	14	12	65	4 x M12	0.61
20	26.9	105	42	16	14	75	4 x M12	0.84
25	33.7	115	49	16	14	85	4 x M12	0.99
32	42.4	140	59	18	14	100	4 x M16	1.65
40	48.3	150	67	18	14	110	4 x M16	1.85
50	60.3	165	77	20	16	125	4 x M16	2.47
65	76.1	185	96	22	16	145	8 x M16	3.04
80	88.9	200	114	24	18	160	8 x M16	3.61
100	114.3	235	138	26	20	190	8 x M20	5.18
125	139.7	270	166	28	22	220	8 x M24	6.89
150	168.3	300	194	30	24	250	8 x M24	8.69
200	219.1	375	250	36	28	320	12 x M27	14.9
250	273	450	312	42	30	385	12 x M30	23.8
300	323.9	515	368	48	34	450	16 x M30	36

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**BLAZE**

EN BS DIN Pipe Flange

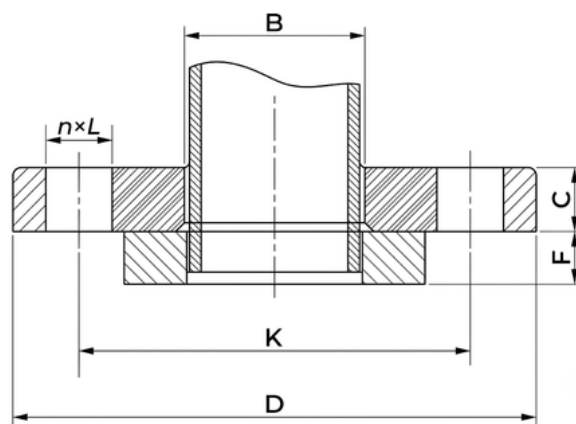
Loose Plate Flange With Weld-On Collar

Description :

Loose Plate Flanges with Weld-On Collar consist of a plate flange and a separate weld-on collar. The collar is attached to the pipe or fitting using fillet welds, while the plate flange provides the bolted connection without coming into contact with the process fluid. This design allows for easy installation, simple maintenance and cost-effective use in a wide range of piping applications.

Specifications :

Size	1/2" to 12" (DN15 to DN300)
Certificate	ISO
Standard	EN 1092-1 Type 02 and 32
Material	Forged steel as EN 10025 S235JR
Pressure Rating	PN 6 / PN 10 / PN 16 / PN 25 / PN 40
Flange Facing	FF
Weld-on Collar	RF / MF / TG
Finish	Oiled / Galvanized



Product Dimensions for PN 6 :

Size		Outside Diameter	Bore Diameter	Flange Thickness	Collar Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	B (mm)	C (mm)	F (mm)	K (mm)	n x L	(kg)
15	21.3	80	25	12	10	55	4 x M10	0.39
20	26.9	90	31	14	10	65	4 x M10	0.57
25	33.7	100	38	14	10	75	4 x M10	0.69
32	42.4	120	46	16	10	90	4 x M12	1.12
40	48.3	130	53	16	10	100	4 x M12	1.29
50	60.3	140	65	16	12	110	4 x M12	1.42
65	76.1	160	81	16	12	130	4 x M12	1.76
80	88.9	190	94	18	12	150	4 x M16	2.84
100	114.3	210	120	18	14	170	4 x M16	3.10
125	139.7	240	145	20	14	200	8 x M16	4.12
150	168.3	265	174	20	14	225	8 x M16	4.53
200	219.1	320	226	22	16	280	8 x M16	6.51
250	273.0	375	281	24	18	335	12 x M16	8.32
300	323.9	440	333	24	18	395	12 x M20	11.1

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**BLAZE**

EN BS DIN Pipe Flange

Loose Plate Flange With Weld-On Collar

Product Dimensions for PN 10 :

Size		Outside Diameter	Bore Diameter	Flange Thickness	Collar Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	B (mm)	C (mm)	F (mm)	K (mm)	n x L	(kg)
15	21.3	95	25	14	12	65	4 x M12	0.65
20	26.9	105	31	16	14	75	4 x M12	0.91
25	33.7	115	38	16	14	85	4 x M12	1.08
32	42.4	140	47	18	14	100	4 x M16	1.77
40	48.3	150	53	18	14	110	4 x M16	2.02
50	60.3	165	65	19	16	125	4 x M16	2.52
65	76.1	185	81	20	16	145	8 x M16	3.05
80	88.9	200	94	20	16	160	8 x M16	3.48
100	114.3	220	120	22	18	180	8 x M16	4.20
125	139.7	250	145	22	18	210	8 x M16	5.21
150	168.3	285	174	24	20	240	8 x M20	6.89
200	219.1	340	226	24	20	295	8 x M20	8.87
250	273.0	395	281	26	22	350	12 x M20	11.2
300	323.9	445	333	26	22	400	12 x M20	12.8

Product Dimensions for PN 16 :

Size		Outside Diameter	Bore Diameter	Flange Thickness	Collar Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	B (mm)	C (mm)	F (mm)	K (mm)	n x L	(kg)
15	21.3	95	25	14	12	65	4 x M12	0.65
20	26.9	105	31	16	14	75	4 x M12	0.91
25	33.7	115	38	16	14	85	4 x M12	1.08
32	42.4	140	47	18	14	100	4 x M16	1.77
40	48.3	150	53	18	14	110	4 x M16	2.02
50	60.3	165	65	19	16	125	4 x M16	2.52
65	76.1	185	81	20	16	145	8 x M16	3.05
80	88.9	200	94	20	16	160	8 x M16	3.48
100	114.3	220	120	22	18	180	8 x M16	4.20
125	139.7	250	145	22	18	210	8 x M16	5.21
150	168.3	285	174	24	20	240	8 x M20	6.89
200	219.1	340	226	26	20	295	12 x M20	9.31
250	273.0	405	281	29	22	355	12 x M24	13.5
300	323.9	460	333	32	24	410	12 x M24	18.0

Product Dimensions for PN 25 :

Size		Outside Diameter	Bore Diameter	Flange Thickness	Collar Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	B (mm)	C (mm)	F (mm)	K (mm)	n x L	(kg)
15	21.3	95	25	14	12	65	4 x M12	0.65
20	26.9	105	31	16	14	75	4 x M12	0.91
25	33.7	115	38	16	14	85	4 x M12	1.08
32	42.4	140	47	18	14	100	4 x M16	1.77
40	48.3	150	53	18	14	110	4 x M16	2.02
50	60.3	165	65	20	16	125	4 x M16	2.65
65	76.1	185	81	22	16	145	8 x M16	3.36
80	88.9	200	94	24	18	160	8 x M16	4.18
100	114.3	235	120	26	20	190	8 x M20	5.87
125	139.7	270	145	28	22	220	8 x M24	7.95
150	168.3	300	174	30	24	250	8 x M24	9.97
200	219.1	360	226	32	26	310	12 x M24	13.8
250	273.0	425	281	35	26	370	12 x M27	19.4
300	323.9	485	333	38	28	430	16 x M27	25.5

Product Dimensions for PN 40 :

Size		Outside Diameter	Bore Diameter	Flange Thickness	Collar Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	B (mm)	C (mm)	F (mm)	K (mm)	n x L	(kg)
15	21.3	95	25	14	12	65	4 x M12	0.65
20	26.9	105	31	16	14	75	4 x M12	0.91
25	33.7	115	38	16	14	85	4 x M12	1.08
32	42.4	140	47	18	14	100	4 x M16	1.77
40	48.3	150	53	18	14	110	4 x M16	2.02
50	60.3	165	65	20	16	125	4 x M16	2.65
65	76.1	185	81	22	16	145	8 x M16	3.36
80	88.9	200	94	24	18	160	8 x M16	4.18
100	114.3	235	120	26	20	190	8 x M20	5.87
125	139.7	270	145	28	22	220	8 x M24	7.95
150	168.3	300	174	30	24	250	8 x M24	9.97
200	219.1	375	226	36	28	320	12 x M27	17.4
250	273.0	450	281	42	30	385	12 x M30	28.4
300	323.9	515	333	48	34	450	16 x M30	43.6

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**BLAZE**

EN BS DIN Pipe Flange

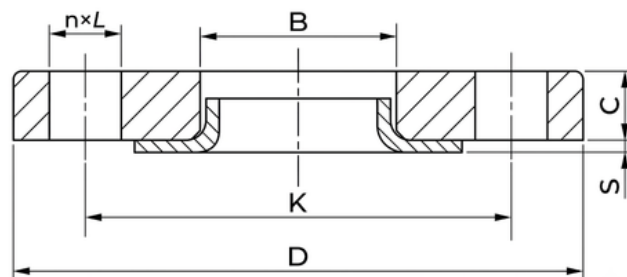
Loose Plate Flange with Lapped Pipe End

Description :

Loose Plate Flanges with Lapped Pipe End consist of a plate flange and a lapped pipe end (pressed collar or pressed collar with long neck). The pipe or fitting is welded to the lapped pipe end, while the plate flange provides the bolted connection without coming into contact with the process fluid. The flange rotates freely around the lapped pipe end, allowing easy bolt-hole alignment and simplifying installation and maintenance.

Specifications :

Size	1/2" to 12" (DN15 to DN300)
Certificate	ISO
Standard	EN 1092-1 Type 02 and 33 (36, 37)
Material	Forged steel as EN 10025 S235JR
Pressure Rating	PN 6 / PN 10 / PN 16
Flange Facing	FF
Lapped Pipe End	RF
Finish	Oiled / Galvanized



Product Dimensions for PN 6 :

Size		Outside Diameter	Bore Diameter	Flange Thickness	Lapped End Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	B (mm)	C (mm)	S (mm)	K (mm)	n x L	(kg)
15	21.3	80	25	12	2 / 2.5	55	4 x M10	0.39
20	26.9	90	31	14	2.5 / 3	65	4 x M10	0.57
25	33.7	100	38	14	2.5 / 3	75	4 x M10	0.69
32	42.4	120	46	16	3 / 3	90	4 x M12	1.12
40	48.3	130	53	16	3 / 3	100	4 x M12	1.29
50	60.3	140	65	16	3 / 3	110	4 x M12	1.42
65	76.1	160	81	16	3 / 3	130	4 x M12	1.76
80	88.9	190	94	18	3 / 3	150	4 x M16	2.84
100	114.3	210	120	18	4 / 4	170	4 x M16	3.10
125	139.7	240	145	20	4 / 4	200	8 x M16	4.12
150	168.3	265	174	20	5 / 4	225	8 x M16	4.53
200	219.1	320	226	22	5 / 5	280	8 x M16	6.51
250	273.0	375	281	24	8 / --	335	12 x M16	8.32
300	323.9	440	333	24	8 / --	395	12 x M20	11.1

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**BLAZE**

EN BS DIN Pipe Flange

Loose Plate Flange with Lapped Pipe End

Product Dimensions for PN 10 :

Size		Outside Diameter	Bore Diameter	Flange Thickness	Lapped End Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	B (mm)	C (mm)	S (mm)	K (mm)	n x L	(kg)
15	21.3	95	25	14	2 / 2.5	65	4 x M12	0.65
20	26.9	105	31	16	2.5 / 3	75	4 x M12	0.91
25	33.7	115	38	16	2.5 / 3	85	4 x M12	1.08
32	42.4	140	46	18	3 / 3	100	4 x M16	1.77
40	48.3	150	53	18	3 / 3	110	4 x M16	2.02
50	60.3	165	65	19	3 / 3	125	4 x M16	2.52
65	76.1	185	81	20	3 / 3	145	8 x M16	3.05
80	88.9	200	94	20	3 / 3	160	8 x M16	3.48
100	114.3	220	120	22	4 / 4	180	8 x M16	4.20
125	139.7	250	145	22	4 / 4	210	8 x M16	5.21
150	168.3	285	174	24	5 / 4	240	8 x M20	6.89
200	219.1	340	226	24	5 / 5	295	8 x M20	8.87
250	273.0	395	281	26	8 / --	350	12 x M20	11.2
300	323.9	445	333	26	8 / --	400	12 x M20	12.8

Product Dimensions for PN 16 :

Size		Outside Diameter	Bore Diameter	Flange Thickness	Lapped End Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	B (mm)	C (mm)	S (mm)	K (mm)	n x L	(kg)
15	21.3	95	25	14	2 / 2.5	65	4 x M12	0.65
20	26.9	105	31	16	2.5 / 3	75	4 x M12	0.91
25	33.7	115	38	16	2.5 / 3	85	4 x M12	1.08
32	42.4	140	47	18	3 / 3	100	4 x M16	1.77
40	48.3	150	53	18	3 / 3	110	4 x M16	2.02
50	60.3	165	65	19	3 / 3	125	4 x M16	2.52
65	76.1	185	81	20	3 / 3	145	8 x M16	3.05
80	88.9	200	94	20	3 / 3	160	8 x M16	3.48
100	114.3	220	120	22	4 / 4	180	8 x M16	4.20
125	139.7	250	145	22	4 / 4	210	8 x M16	5.21
150	168.3	285	174	24	5 / 4	240	8 x M20	6.89
200	219.1	340	226	26	6 / 6	295	12 x M20	9.31
250	273.0	405	281	29	10 / --	355	12 x M24	13.5
300	323.9	460	333	32	10 / --	410	12 x M24	18.0

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EN BS DIN Pipe Flange

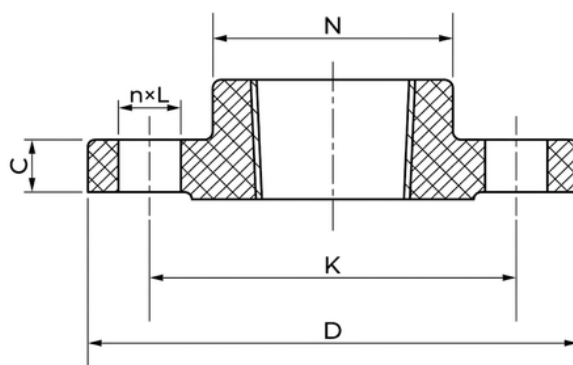
Hubbed Threaded Flange

Description :

Hubbed Threaded Flanges are similar to slip-on flanges but feature an internally threaded bore that matches the external threads of the pipe, eliminating the need for welding. Their threaded design allows for quick installation and easy removal, making them ideal for maintenance and inspection. They are commonly used on small-diameter, high-pressure pipelines, particularly in utility services and instrumentation systems where welding is impractical.

Specifications :

Size	1/2" to 6" (DN15 to DN150)
Certificate	ISO
Standard	EN 1092-1 Type 13
Material	Forged steel as EN 10025 S235JR
Pressure Rating	PN 6 / PN 10 / PN 16 / PN 25 / PN 40
Flange Facing	FF / RF
Thread	Parallel (Rp) / tapered (Rc) as ISO 7-1
Finish	Oiled / Galvanized



Product Dimensions for PN 6 :

Size		Outside Diameter	Neck Diameter	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	N (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	80	30	12	55	4 x M10	0.37
20	26.9	90	40	14	65	4 x M10	0.58
25	33.7	100	50	14	75	4 x M10	0.73
32	42.4	120	60	14	90	4 x M12	1.04
40	48.3	130	70	14	100	4 x M12	1.20
50	60.3	140	80	14	110	4 x M12	1.34
65	76.1	160	100	14	130	4 x M12	1.83
80	88.9	190	110	16	150	4 x M16	2.75
100	114.3	210	130	16	170	4 x M16	3.01
125	139.7	240	160	18	200	8 x M16	4.30
150	168.3	265	185	18	225	8 x M16	4.63

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**BLAZE**

EN BS DIN Pipe Flange

Hubbed Threaded Flange

Product Dimensions for PN 10 :

Size		Outside Diameter	Neck Diameter	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	N (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	35	16	65	4 x M12	0.72
20	26.9	105	45	18	75	4 x M12	1.04
25	33.7	115	52	18	85	4 x M12	1.25
32	42.4	140	60	18	100	4 x M16	1.81
40	48.3	150	70	18	110	4 x M16	2.06
50	60.3	165	84	18	125	4 x M16	2.39
65	76.1	185	104	18	145	8 x M16	2.97
80	88.9	200	118	20	160	8 x M16	3.78
100	114.3	220	140	20	180	8 x M16	4.38
125	139.7	250	168	22	210	8 x M16	6.07
150	168.3	285	195	22	240	8 x M20	7.24

Product Dimensions for PN 16 :

Size		Outside Diameter	Neck Diameter	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	N (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	35	16	65	4 x M12	0.72
20	26.9	105	45	18	75	4 x M12	1.04
25	33.7	115	52	18	85	4 x M12	1.25
32	42.4	140	60	18	100	4 x M16	1.81
40	48.3	150	70	18	110	4 x M16	2.06
50	60.3	165	84	18	125	4 x M16	2.39
65	76.1	185	104	18	145	8 x M16	2.97
80	88.9	200	118	20	160	8 x M16	3.78
100	114.3	220	140	20	180	8 x M16	4.38
125	139.7	250	168	22	210	8 x M16	6.07
150	168.3	285	195	22	240	8 x M20	7.24

Product Dimensions for PN 25 :

Size		Outside Diameter	Neck Diameter	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	N (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	35	16	65	4 x M12	0.72
20	26.9	105	45	18	75	4 x M12	1.04
25	33.7	115	52	18	85	4 x M12	1.25
32	42.4	140	60	18	100	4 x M16	1.81
40	48.3	150	70	18	110	4 x M16	2.06
50	60.3	165	84	20	125	4 x M16	2.74
65	76.1	185	104	22	145	8 x M16	3.65
80	88.9	200	118	24	160	8 x M16	4.59
100	114.3	235	145	24	190	8 x M20	6.10
125	139.7	270	170	26	220	8 x M24	8.22
150	168.3	300	200	28	250	8 x M24	10.6

Product Dimensions for PN 40 :

Size		Outside Diameter	Neck Diameter	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	N (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	35	16	65	4 x M12	0.72
20	26.9	105	45	18	75	4 x M12	1.04
25	33.7	115	52	18	85	4 x M12	1.25
32	42.4	140	60	18	100	4 x M16	1.81
40	48.3	150	70	18	110	4 x M16	2.06
50	60.3	165	84	20	125	4 x M16	2.74
65	76.1	185	104	22	145	8 x M16	3.65
80	88.9	200	118	24	160	8 x M16	4.59
100	114.3	235	145	24	190	8 x M20	6.10
125	139.7	270	170	26	220	8 x M24	8.22
150	168.3	300	200	28	250	8 x M24	10.6

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**BLAZE**

EN BS DIN Pipe Flange

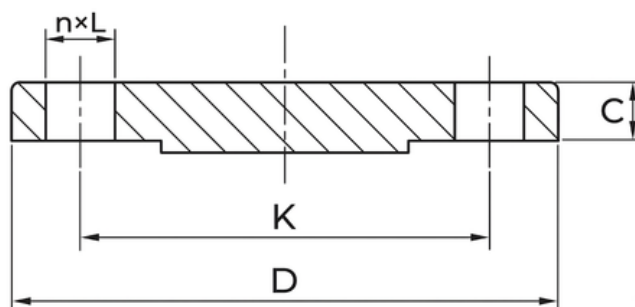
Blind Flange

Description :

Blind Flanges are manufactured without a centre bore and are used to seal the end of a piping system. They provide a secure pressure-tight closure and are commonly used for pressure testing, pipeline isolation, and to allow easy access for inspection, maintenance and cleaning.

Specifications :

Size	1/2" to 12" (DN15 to DN300)
Certificate	ISO
Standard	EN 1092-1 Type 05
Material	Forged steel as EN 10025 S235JR Hot rolled plate as EN 10025 S235JR
Pressure Rating	PN 6 / PN 10 / PN 16 / PN 25 / PN 40
Flange Facing	FF / RF / MF / TG / RJ
Finish	Oiled / Galvanized



Product Dimensions for PN 6 :

Size		Outside Diameter	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD(mm)	D (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	80	12	55	4 x M10	0.44
20	26.9	90	14	65	4 x M10	0.66
25	33.7	100	14	75	4 x M10	0.82
32	42.4	120	14	90	4 x M12	1.18
40	48.3	130	14	100	4 x M12	1.39
50	60.3	140	14	110	4 x M12	1.62
65	76.1	160	14	130	4 x M12	2.14
80	88.9	190	16	150	4 x M16	3.43
100	114.3	210	16	170	4 x M16	4.22
125	139.7	240	18	200	8 x M16	6.10
150	168.3	265	18	225	8 x M16	7.51
200	219.1	320	20	280	8 x M16	12.3
250	273.0	375	22	335	12 x M16	18.5
300	323.9	440	22	395	12 x M20	25.5

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**BLAZE**

EN BS DIN Pipe Flange

Blind Flange

Product Dimensions for PN 10 :

Size		Outside Diameter	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	16	65	4 x M12	0.81
20	26.9	105	18	75	4 x M12	1.14
25	33.7	115	18	85	4 x M12	1.38
32	42.4	140	18	100	4 x M16	2.03
40	48.3	150	18	110	4 x M16	2.35
50	60.3	165	18	125	4 x M16	2.88
65	76.1	185	18	145	8 x M16	3.51
80	88.9	200	20	160	8 x M16	4.61
100	114.3	220	20	180	8 x M16	5.65
125	139.7	250	22	210	8 x M16	8.13
150	168.3	285	22	240	8 x M20	10.5
200	219.1	340	24	295	8 x M20	16.5
250	273.0	395	26	350	12 x M20	24.1
300	323.9	445	26	400	12 x M20	30.8

Product Dimensions for PN 16 :

Size		Outside Diameter	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	16	65	4 x M12	0.81
20	26.9	105	18	75	4 x M12	1.14
25	33.7	115	18	85	4 x M12	1.38
32	42.4	140	18	100	4 x M16	2.03
40	48.3	150	18	110	4 x M16	2.35
50	60.3	165	18	125	4 x M16	2.88
65	76.1	185	18	145	8 x M16	3.51
80	88.9	200	20	160	8 x M16	4.61
100	114.3	220	20	180	8 x M16	5.65
125	139.7	250	22	210	8 x M16	8.13
150	168.3	285	22	240	8 x M20	10.5
200	219.1	340	24	295	12 x M20	16.2
250	273.0	405	26	355	12 x M24	25.0
300	323.9	460	28	410	12 x M24	35.1

Product Dimensions for PN 25 :

Size		Outside Diameter	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	16	65	4 x M12	0.81
20	26.9	105	18	75	4 x M12	1.14
25	33.7	115	18	85	4 x M12	1.38
32	42.4	140	18	100	4 x M16	2.03
40	48.3	150	18	110	4 x M16	2.35
50	60.3	165	20	125	4 x M16	3.20
65	76.1	185	22	145	8 x M16	4.29
80	88.9	200	24	160	8 x M16	5.54
100	114.3	235	24	190	8 x M20	7.60
125	139.7	270	26	220	8 x M24	10.8
150	168.3	300	28	250	8 x M24	14.6
200	219.1	360	30	310	12 x M24	22.5
250	273.0	425	32	370	12 x M27	33.5
300	323.9	485	34	430	16 x M27	46.3

Product Dimensions for PN 40 :

Size		Outside Diameter	Flange Thickness	Bolt Circle Diameter	Bolting (No. x Size)	Weight
DN	OD (mm)	D (mm)	C (mm)	K (mm)	n x L	(kg)
15	21.3	95	16	65	4 x M12	0.81
20	26.9	105	18	75	4 x M12	1.14
25	33.7	115	18	85	4 x M12	1.38
32	42.4	140	18	100	4 x M16	2.03
40	48.3	150	18	110	4 x M16	2.35
50	60.3	165	20	125	4 x M16	3.20
65	76.1	185	22	145	8 x M16	4.29
80	88.9	200	24	160	8 x M16	5.54
100	114.3	235	24	190	8 x M20	7.60
125	139.7	270	26	220	8 x M24	10.8
150	168.3	300	28	250	8 x M24	14.6
200	219.1	375	36	320	12 x M27	28.8
250	273.0	450	38	385	12 x M30	44.4
300	323.9	515	42	450	16 x M30	64.2

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