

Flange Weight & Dimensions Chart

Weld neck (GB/T 9115) + plate slip-on (GB/T 9119) on one page: DN15–DN300 OD/bolt holes/thickness/raised face, unit weights in carbon steel/304/316L, PN10/PN16 toggle.

DN15–DN300 · Weld Neck WNF + Plate Slip-On PLF (GB/T 9115/9119) · PN10 / PN16 · carbon steel/304/316L · kg per piece · EN 1092-1 table basis

DN15

Weld Neck WNF (GB/T 9115) · Plate Slip-On PLF (GB/T 9119) · kg/pc

OD D	95	OD D	95
Bolt Circle K	65	Bolt Circle K	65
Bolt Holes n×L	4×14	Bolt Holes n×L	4×14
Stud Size	M12	Stud Size	M12
Flange Thickness C	16	Flange Thickness C	14
Raised Face OD d4	45		
Raised Face Height f	2		
Weld Neck Length H	38		
Neck OD N1	32		

Letters correspond to GB/T 9124.1/GB/T 9115 series dimension codes: D OD, K bolt circle diameter, L bolt hole diameter, n number of holes, C flange thickness, d4 raised face (RF) OD, f raised face height, H weld neck length, N1 neck OD; plate slip-on PLF has no raised face/neck columns.

PN16 · kg per piece

Type · PN16	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	0.77	0.78	0.78
Plate Slip-On PLF (GB/T 9119)	0.67	0.67	0.68

PN10 · kg per piece

Type · PN10	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	0.77	0.78	0.78
Plate Slip-On PLF (GB/T 9119)	0.67	0.68	0.68

Dimensions and unit weights are taken directly from product catalog flange SKU spec values (same source as WNF/PLF product pages under /products/pipe-flanges-and-gaskets/): dimension columns follow GB/T 9115 (weld neck) / GB/T 9119 (plate slip-on) PN series nominal sizes, whose dimensions/weights are from EN 1092-1 published tables (dual-source cross-checked from hsflange/marcelforged/tesco, row-by-row URLs archived in catalog spec); carbon steel 7.85 g/cm³ table values are catalog values, 304/316L converted by density ratio 7.93/7.98 ÷ 7.85 (estimate). Weld neck flange small-size shared rating rules follow EN 1092-1 (PN10/PN16 DN≤40 use PN40 dimension class, PN10 DN50–150 use PN16 dimension class, PN10 dedicated series from DN200), and this table matches each class.

Cell shows unit weight (kg/pc): WNF/PLF × carbon steel/304/316L. PN10/PN16 column values differ where applicable, calculated cell by cell; theoretical estimate, settlement subject to actual measurement.

DN20

Weld Neck WNF (GB/T 9115) · Plate Slip-On PLF (GB/T 9119) · kg/pc

OD D	105	OD D	105
Bolt Circle K	75	Bolt Circle K	75
Bolt Holes n×L	4×14	Bolt Holes n×L	4×14
Stud Size	M12	Stud Size	M12
Flange Thickness C	18	Flange Thickness C	16
Raised Face OD d4	58		
Raised Face Height f	2		
Weld Neck Length H	40		
Neck OD N1	40		

Letters correspond to GB/T 9124.1/GB/T 9115 series dimension codes: D OD, K bolt circle diameter, L bolt hole diameter, n number of holes, C flange thickness, d4 raised face (RF) OD, f raised face height, H weld neck length, N1 neck OD; plate slip-on PLF has no raised face/neck columns.

PN16 · kg per piece

Type · PN16	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	1.09	1.1	1.11

Type · PN16	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Plate Slip-On PLF (GB/T 9119)	0.93	0.94	0.95

PN10 · kg per piece

Type · PN10	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	1.09	1.1	1.11
Plate Slip-On PLF (GB/T 9119)	0.94	0.95	0.96

Dimensions and unit weights are taken directly from product catalog flange SKU spec values (same source as WNF/PLF product pages under /products/pipe-flanges-and-gaskets/): dimension columns follow GB/T 9115 (weld neck) / GB/T 9119 (plate slip-on) PN series nominal sizes, whose dimensions/weights are from EN 1092-1 published tables (dual-source cross-checked from hsflange/marcelforged/tesco, row-by-row URLs archived in catalog spec); carbon steel 7.85 g/cm³ table values are catalog values, 304/316L converted by density ratio 7.93/7.98 ÷ 7.85 (estimate). Weld neck flange small-size shared rating rules follow EN 1092-1 (PN10/PN16 DN≤40 use PN40 dimension class, PN10 DN50–150 use PN16 dimension class, PN10 dedicated series from DN200), and this table matches each class.

Cell shows unit weight (kg/pc): WNF/PLF × carbon steel/304/316L. PN10/PN16 column values differ where applicable, calculated cell by cell; theoretical estimate, settlement subject to actual measurement.

DN25

Weld Neck WNF (GB/T 9115) · Plate Slip-On PLF (GB/T 9119) · kg/pc

OD D	115	OD D	115
Bolt Circle K	85	Bolt Circle K	85
Bolt Holes n×L	4×14	Bolt Holes n×L	4×14
Stud Size	M12	Stud Size	M12
Flange Thickness C	18	Flange Thickness C	16
Raised Face OD d4	68		
Raised Face Height f	2		
Weld Neck Length H	40		
Neck OD N1	46		

Letters correspond to GB/T 9124.1/GB/T 9115 series dimension codes: D OD, K bolt circle diameter, L bolt hole diameter, n number of holes, C flange thickness, d4 raised face (RF) OD, f raised face height, H weld neck length, N1 neck OD; plate slip-on PLF has no raised face/neck columns.

PN16 · kg per piece

Type · PN16	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	1.3	1.31	1.32
Plate Slip-On PLF (GB/T 9119)	1.11	1.12	1.12

PN10 · kg per piece

Type · PN10	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	1.3	1.31	1.32
Plate Slip-On PLF (GB/T 9119)	1.11	1.12	1.13

Dimensions and unit weights are taken directly from product catalog flange SKU spec values (same source as WNF/PLF product pages under /products/pipe-flanges-and-gaskets/): dimension columns follow GB/T 9115 (weld neck) / GB/T 9119 (plate slip-on) PN series nominal sizes, whose dimensions/weights are from EN 1092-1 published tables (dual-source cross-checked from hsflange/marcelforged/tesco, row-by-row URLs archived in catalog spec); carbon steel 7.85 g/cm³ table values are catalog values, 304/316L converted by density ratio 7.93/7.98 ÷ 7.85 (estimate). Weld neck flange small-size shared rating rules follow EN 1092-1 (PN10/PN16 DN≤40 use PN40 dimension class, PN10 DN50–150 use PN16 dimension class, PN10 dedicated series from DN200), and this table matches each class.

Cell shows unit weight (kg/pc): WNF/PLF × carbon steel/304/316L. PN10/PN16 column values differ where applicable, calculated cell by cell; theoretical estimate, settlement subject to actual measurement.

DN40

Weld Neck WNF (GB/T 9115) · Plate Slip-On PLF (GB/T 9119) · kg/pc

OD D	150	OD D	150
Bolt Circle K	110	Bolt Circle K	110
Bolt Holes n×L	4×18	Bolt Holes n×L	4×18
Stud Size	M16	Stud Size	M16
Flange Thickness C	18	Flange Thickness C	18
Raised Face OD d4	88		
Raised Face Height f	3		
Weld Neck Length H	45		
Neck OD N1	64		

Letters correspond to GB/T 9124.1/GB/T 9115 series dimension codes: D OD, K bolt circle diameter, L bolt hole diameter, n number of holes, C flange thickness, d4 raised face (RF) OD, f raised face height, H weld neck length, N1 neck OD; plate slip-on PLF has no raised face/neck columns.

PN16 · kg per piece

Type · PN16	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	2.15	2.17	2.19
Plate Slip-On PLF (GB/T 9119)	2.08	2.1	2.11

PN10 · kg per piece

Type · PN10	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	2.15	2.17	2.19
Plate Slip-On PLF (GB/T 9119)	1.85	1.87	1.88

Dimensions and unit weights are taken directly from product catalog flange SKU spec values (same source as WNF/PLF product pages under /products/pipe-flanges-and-gaskets/): dimension columns follow GB/T 9115 (weld neck) / GB/T 9119 (plate slip-on) PN series nominal sizes, whose dimensions/weights are from EN 1092-1 published tables (dual-source cross-checked from hsflange/marcelforged/tesco, row-by-row URLs archived in catalog spec); carbon steel 7.85 g/cm³ table values are catalog values, 304/316L converted by density ratio 7.93/7.98 ÷ 7.85 (estimate). Weld neck flange small-size shared rating rules follow EN 1092-1 (PN10/PN16 DN≤40 use PN40 dimension class, PN10 DN50–150 use PN16 dimension class, PN10 dedicated series from DN200), and this table matches each class.

Cell shows unit weight (kg/pc): WNF/PLF × carbon steel/304/316L. PN10/PN16 column values differ where applicable, calculated cell by cell; theoretical estimate, settlement subject to actual measurement.

DN50

Weld Neck WNF (GB/T 9115) · Plate Slip-On PLF (GB/T 9119) · kg/pc

OD D	165	OD D	165
Bolt Circle K	125	Bolt Circle K	125
Bolt Holes n×L	4×18	Bolt Holes n×L	4×18
Stud Size	M16	Stud Size	M16
Flange Thickness C	18	Flange Thickness C	20
Raised Face OD d4	102		
Raised Face Height f	3		
Weld Neck Length H	45		
Neck OD N1	74		

Letters correspond to GB/T 9124.1/GB/T 9115 series dimension codes: D OD, K bolt circle diameter, L bolt hole diameter, n number of holes, C flange thickness, d4 raised face (RF) OD, f raised face height, H weld neck length, N1 neck OD; plate slip-on PLF has no raised face/neck columns.

PN16 · kg per piece

Type · PN16	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	2.53	2.56	2.57
Plate Slip-On PLF (GB/T 9119)	2.72	2.75	2.77

PN10 · kg per piece

Type · PN10	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	2.53	2.56	2.57
Plate Slip-On PLF (GB/T 9119)	2.46	2.49	2.5

Dimensions and unit weights are taken directly from product catalog flange SKU spec values (same source as WNF/PLF product pages under /products/pipe-flanges-and-gaskets/): dimension columns follow GB/T 9115 (weld neck) / GB/T 9119 (plate slip-on) PN series nominal sizes, whose dimensions/weights are from EN 1092-1 published tables (dual-source cross-checked from hsflange/marcelforged/tesco, row-by-row URLs archived in catalog spec); carbon steel 7.85 g/cm³ table values are catalog values, 304/316L converted by density ratio 7.93/7.98 ÷ 7.85 (estimate). Weld neck flange small-size shared rating rules follow EN 1092-1 (PN10/PN16 DN≤40 use PN40 dimension class, PN10 DN50–150 use PN16 dimension class, PN10 dedicated series from DN200), and this table matches each class.

Cell shows unit weight (kg/pc): WNF/PLF × carbon steel/304/316L. PN10/PN16 column values differ where applicable, calculated cell by cell; theoretical estimate, settlement subject to actual measurement.

DN80

Weld Neck WNF (GB/T 9115) · Plate Slip-On PLF (GB/T 9119) · kg/pc

OD D	200	OD D	200
Bolt Circle K	160	Bolt Circle K	160
Bolt Holes n×L	8×18	Bolt Holes n×L	8×18
Stud Size	M16	Stud Size	M16
Flange Thickness C	20	Flange Thickness C	20

Raised Face OD d4	138
Raised Face Height f	3
Weld Neck Length H	50
Neck OD N1	105

Letters correspond to GB/T 9124.1/GB/T 9115 series dimension codes: D OD, K bolt circle diameter, L bolt hole diameter, n number of holes, C flange thickness, d4 raised face (RF) OD, f raised face height, H weld neck length, N1 neck OD; plate slip-on PLF has no raised face/neck columns.

PN16 · kg per piece

Type · PN16	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	3.92	3.96	3.98
Plate Slip-On PLF (GB/T 9119)	3.59	3.63	3.65

PN10 · kg per piece

Type · PN10	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	3.92	3.96	3.98
Plate Slip-On PLF (GB/T 9119)	3.61	3.65	3.67

Dimensions and unit weights are taken directly from product catalog flange SKU spec values (same source as WNF/PLF product pages under /products/pipe-flanges-and-gaskets/): dimension columns follow GB/T 9115 (weld neck) / GB/T 9119 (plate slip-on) PN series nominal sizes, whose dimensions/weights are from EN 1092-1 published tables (dual-source cross-checked from hsflange/marcelforged/tesco, row-by-row URLs archived in catalog spec); carbon steel 7.85 g/cm³ table values are catalog values, 304/316L converted by density ratio 7.93/7.98 ÷ 7.85 (estimate). Weld neck flange small-size shared rating rules follow EN 1092-1 (PN10/PN16 DN≤40 use PN40 dimension class, PN10 DN50–150 use PN16 dimension class, PN10 dedicated series from DN200), and this table matches each class.

Cell shows unit weight (kg/pc): WNF/PLF × carbon steel/304/316L. PN10/PN16 column values differ where applicable, calculated cell by cell; theoretical estimate, settlement subject to actual measurement.

DN100

Weld Neck WNF (GB/T 9115) · Plate Slip-On PLF (GB/T 9119) · kg/pc

OD D	220	OD D	220
Bolt Circle K	180	Bolt Circle K	180
Bolt Holes n×L	8×18	Bolt Holes n×L	8×18
Stud Size	M16	Stud Size	M16
Flange Thickness C	20	Flange Thickness C	22
Raised Face OD d4	158		
Raised Face Height f	3		
Weld Neck Length H	52		
Neck OD N1	131		

Letters correspond to GB/T 9124.1/GB/T 9115 series dimension codes: D OD, K bolt circle diameter, L bolt hole diameter, n number of holes, C flange thickness, d4 raised face (RF) OD, f raised face height, H weld neck length, N1 neck OD; plate slip-on PLF has no raised face/neck columns.

PN16 · kg per piece

Type · PN16	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	4.62	4.67	4.7
Plate Slip-On PLF (GB/T 9119)	4.38	4.42	4.45

PN10 · kg per piece

Type · PN10	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	4.62	4.67	4.7
Plate Slip-On PLF (GB/T 9119)	3.99	4.03	4.06

Dimensions and unit weights are taken directly from product catalog flange SKU spec values (same source as WNF/PLF product pages under /products/pipe-flanges-and-gaskets/): dimension columns follow GB/T 9115 (weld neck) / GB/T 9119 (plate slip-on) PN series nominal sizes, whose dimensions/weights are from EN 1092-1 published tables (dual-source cross-checked from hsflange/marcelforged/tesco, row-by-row URLs archived in catalog spec); carbon steel 7.85 g/cm³ table values are catalog values, 304/316L converted by density ratio 7.93/7.98 ÷ 7.85 (estimate). Weld neck flange small-size shared rating rules follow EN 1092-1 (PN10/PN16 DN≤40 use PN40 dimension class, PN10 DN50–150 use PN16 dimension class, PN10 dedicated series from DN200), and this table matches each class.

Cell shows unit weight (kg/pc): WNF/PLF × carbon steel/304/316L. PN10/PN16 column values differ where applicable, calculated cell by cell; theoretical estimate, settlement subject to actual measurement.

DN150

Weld Neck WNF (GB/T 9115) · Plate Slip-On PLF (GB/T 9119) · kg/pc

OD D	285	OD D	285
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Bolt Circle K	240	Bolt Circle K	240
Bolt Holes n×L	8×22	Bolt Holes n×L	8×22
Stud Size	M20	Stud Size	M20
Flange Thickness C	22	Flange Thickness C	24
Raised Face OD d4	212		
Raised Face Height f	3		
Weld Neck Length H	55		
Neck OD N1	184		

Letters correspond to GB/T 9124.1/GB/T 9115 series dimension codes: D OD, K bolt circle diameter, L bolt hole diameter, n number of holes, C flange thickness, d4 raised face (RF) OD, f raised face height, H weld neck length, N1 neck OD; plate slip-on PLF has no raised face/neck columns.

PN16 · kg per piece

Type · PN16	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	7.4	7.48	7.52
Plate Slip-On PLF (GB/T 9119)	7.12	7.2	7.24

PN10 · kg per piece

Type · PN10	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	7.4	7.48	7.52
Plate Slip-On PLF (GB/T 9119)	6.55	6.62	6.66

Dimensions and unit weights are taken directly from product catalog flange SKU spec values (same source as WNF/PLF product pages under /products/pipe-flanges-and-gaskets/): dimension columns follow GB/T 9115 (weld neck) / GB/T 9119 (plate slip-on) PN series nominal sizes, whose dimensions/weights are from EN 1092-1 published tables (dual-source cross-checked from hsflange/marcelforged/tesco, row-by-row URLs archived in catalog spec); carbon steel 7.85 g/cm³ table values are catalog values, 304/316L converted by density ratio 7.93/7.98 ÷ 7.85 (estimate). Weld neck flange small-size shared rating rules follow EN 1092-1 (PN10/PN16 DN≤40 use PN40 dimension class, PN10 DN50–150 use PN16 dimension class, PN10 dedicated series from DN200), and this table matches each class.

Cell shows unit weight (kg/pc): WNF/PLF × carbon steel/304/316L. PN10/PN16 column values differ where applicable, calculated cell by cell; theoretical estimate, settlement subject to actual measurement.

DN200

Weld Neck WNF (GB/T 9115) · Plate Slip-On PLF (GB/T 9119) · kg/pc

OD D	340	OD D	340
Bolt Circle K	295	Bolt Circle K	295
Bolt Holes n×L	12×22	Bolt Holes n×L	12×22
Stud Size	M20	Stud Size	M20
Flange Thickness C	24	Flange Thickness C	26
Raised Face OD d4	268		
Raised Face Height f	3		
Weld Neck Length H	62		
Neck OD N1	235		

Letters correspond to GB/T 9124.1/GB/T 9115 series dimension codes: D OD, K bolt circle diameter, L bolt hole diameter, n number of holes, C flange thickness, d4 raised face (RF) OD, f raised face height, H weld neck length, N1 neck OD; plate slip-on PLF has no raised face/neck columns.

PN16 · kg per piece

Type · PN16	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	11.5	11.6	11.7
Plate Slip-On PLF (GB/T 9119)	9.71	9.8	9.87

PN10 · kg per piece

Type · PN10	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	11.6	11.7	11.8
Plate Slip-On PLF (GB/T 9119)	9.24	9.34	9.4

Dimensions and unit weights are taken directly from product catalog flange SKU spec values (same source as WNF/PLF product pages under /products/pipe-flanges-and-gaskets/): dimension columns follow GB/T 9115 (weld neck) / GB/T 9119 (plate slip-on) PN series nominal sizes, whose dimensions/weights are from EN 1092-1 published tables (dual-source cross-checked from hsflange/marcelforged/tesco, row-by-row URLs archived in catalog spec); carbon steel 7.85 g/cm³ table values are catalog values, 304/316L converted by density ratio 7.93/7.98 ÷ 7.85 (estimate). Weld neck flange small-size shared rating rules follow EN 1092-1 (PN10/PN16 DN≤40 use PN40 dimension class, PN10 DN50–150 use PN16 dimension class, PN10 dedicated series from DN200), and this table matches each class.

Cell shows unit weight (kg/pc): WNF/PLF × carbon steel/304/316L. PN10/PN16 column values differ where applicable, calculated cell by cell; theoretical estimate, settlement subject to actual measurement.

DN300

Weld Neck WNF (GB/T 9115) · Plate Slip-On PLF (GB/T 9119) · kg/pc

OD D	460	OD D	460
Bolt Circle K	410	Bolt Circle K	410
Bolt Holes n×L	12×26	Bolt Holes n×L	12×26
Stud Size	M24	Stud Size	M24
Flange Thickness C	28	Flange Thickness C	32
Raised Face OD d4	378		
Raised Face Height f	4		
Weld Neck Length H	78		
Neck OD N1	344		

Letters correspond to GB/T 9124.1/GB/T 9115 series dimension codes: D OD, K bolt circle diameter, L bolt hole diameter, n number of holes, C flange thickness, d4 raised face (RF) OD, f raised face height, H weld neck length, N1 neck OD; plate slip-on PLF has no raised face/neck columns.

PN16 · kg per piece

Type · PN16	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	22.1	22.3	22.5
Plate Slip-On PLF (GB/T 9119)	18.9	19.1	19.2

PN10 · kg per piece

Type · PN10	Carbon Steel kg/pc	304 Stainless Steel kg/pc	316L Stainless Steel kg/pc
Weld Neck WNF (GB/T 9115)	18.3	18.5	18.6
Plate Slip-On PLF (GB/T 9119)	13.6	13.7	13.8

Dimensions and unit weights are taken directly from product catalog flange SKU spec values (same source as WNF/PLF product pages under /products/pipe-flanges-and-gaskets/): dimension columns follow GB/T 9115 (weld neck) / GB/T 9119 (plate slip-on) PN series nominal sizes, whose dimensions/weights are from EN 1092-1 published tables (dual-source cross-checked from hsflange/marcelforged/tesco, row-by-row URLs archived in catalog spec); carbon steel 7.85 g/cm³ table values are catalog values, 304/316L converted by density ratio 7.93/7.98 ÷ 7.85 (estimate). Weld neck flange small-size shared rating rules follow EN 1092-1 (PN10/PN16 DN≤40 use PN40 dimension class, PN10 DN50–150 use PN16 dimension class, PN10 dedicated series from DN200), and this table matches each class.

Cell shows unit weight (kg/pc): WNF/PLF × carbon steel/304/316L. PN10/PN16 column values differ where applicable, calculated cell by cell; theoretical estimate, settlement subject to actual measurement.

Data Basis and Source Disclosure

Dimensions and unit weights are taken directly from product catalog flange SKU spec values (same source as WNF/PLF product pages under /products/pipe-flanges-and-gaskets/): dimension columns follow GB/T 9115 (weld neck) / GB/T 9119 (plate slip-on) PN series nominal sizes, whose dimensions/weights are from EN 1092-1 published tables (dual-source cross-checked from hsflange/marcelforged/tesco, row-by-row URLs archived in catalog spec); carbon steel 7.85 g/cm³ table values are catalog values, 304/316L converted by density ratio 7.93/7.98 ÷ 7.85 (estimate). Weld neck flange small-size shared rating rules follow EN 1092-1 (PN10/PN16 DN≤40 use PN40 dimension class, PN10 DN50–150 use PN16 dimension class, PN10 dedicated series from DN200), and this table matches each class.

Boundary: This table is a theoretical unit weight estimate (excluding gaskets/bolts/nuts and coating allowance), for quotation, freight and lifting budget reference; actual table values and unit weights for the same DN×PN vary with manufacturing standard version, sealing face type (RF/FF etc.) and material tolerance, trade settlement subject to actual measurement.

References

- GB/T 9115-2010 Pipe Flanges – Weld Neck Steel Flanges series (National Public Service Platform for Standards Information) — https://openstd.samr.gov.cn/bzgk/gb/std?std_no=GB%2FT%209115-2010
- GB/T 9119-2010 Pipe Flanges – Plate Flat Steel Flanges (National Public Service Platform for Standards Information) — https://openstd.samr.gov.cn/bzgk/gb/std?std_no=GB%2FT%209119-2010
- EN 1092-1 PN series flange dimension/weight published tables (hsflange / marcelforged / tesco dual-source, row-by-row archived in catalog spec) — <https://www.hsflange.com/en1092-1-type-11-weld-neck-flange.php>
- Dimensions and weights cross-checked against 60 flange SKU spec_json in product catalog (same source as product pages)

Disclaimer: This table is engineering estimate data for selection, quotation and freight estimation reference only, not a design basis or acceptance standard.

Material Density Conversion

Table values are for carbon steel (7.85 g/cm³); other materials converted by density ratio: weight × factor.

Material	Density (g/cm³) g/cm³	Conversion Factor
Carbon Steel	7.85	×1.000

Material	Density (g/cm ³) g/cm ³	Conversion Factor
304 Stainless Steel	7.93	×1.010
316	7.98	×1.017
Brass	8.5	×1.083

Flange Weight & Dimensions Chart — Yaxiio full-range reference PDF, pack v1 · generated 2026-09-10 · data source: yaxiio-customer/utills/fastenerCalc.ts (single source of truth) · methodology matches the online tool pages · <https://www.yaxiio.com/en/tools/flange-weight-chart/dn100>