

DIMENSIONAL STANDARD · ASME B16.5

ASME B16.5 Flange Weight Chart

Approximate weights of weld neck, slip-on and blind flanges by class and size, in kg.

Approximate weights of **ASME B16.5 weld neck, slip-on and blind flanges** in kilograms, by nominal pipe size and pressure class. Use them for freight estimates, lifting plans and material take-offs.

Weld neck flange weight (kg, approximate)

Slip-on flange weight (kg, approximate)

NPS in	Class 150 kg	Class 300 kg	Class 600 kg	Class 900 kg	Class 1500 kg	Class 2500 kg	NPS in	Class 150 kg	Class 300 kg	Class 600 kg	Class 900 kg	Class 1500 kg	Class 2500 kg
1/2"	—	—	0.9	—	—	3.6	1/2"	0.5	0.6	0.9	1.8	—	—
3/4"	—	—	1.3	—	—	4.1	3/4"	—	1.1	1.4	2.3	—	—
1"	1.1	1.6	1.8	4.1	4.1	5.9	1"	0.9	1.4	1.8	3.4	—	—
1 1/4"	1.4	2.1	2.7	4.5	4.5	9.1	1 1/4"	1.1	—	2.3	4.3	—	—
1 1/2"	1.8	3.1	3.6	6.4	6.4	12.7	1 1/2"	1.4	—	3.2	5.5	—	—
2"	2.6	3.4	5.4	11.3	11.3	19.1	2"	2.3	2.8	4.1	10.0	—	—
2 1/2"	4.3	5.3	8.1	16.3	16.3	23.6	2 1/2"	3.4	4.2	5.9	16.3	—	—
3"	5.2	7.3	10.4	13.6	21.8	42.6	3"	3.9	5.8	7.3	—	—	—
3 1/2"	5.5	8.2	11.8	—	—	—	3 1/2"	5.0	7.7	9.5	—	—	—
4"	7.3	11.3	19.0	24.0	33.1	66.2	4"	5.8	10.1	16.8	24.0	—	—
5"	8.9	15.1	31.0	39.0	59.9	111	5"	6.2	12.6	29.0	38.0	—	—
6"	11.3	19.7	37.0	50.0	74.8	171	6"	7.4	16.0	36.0	50.0	—	—
8"	17.7	30.5	52.0	84.0	125	261	8"	12.4	24.5	52.0	78.0	—	—
10"	24.8	43.7	86.0	121	206	484	10"	17.1	34.2	77.0	111	—	—
12"	39.0	64.4	102	—	313	729	12"	27.7	51.3	97.0	148	—	—
14"	51.7	88.3	—	—	426	—	14"	35.2	72.1	111	181	—	—
16"	64.4	113	—	—	567	—	16"	42.2	90.4	157	200	—	—
18"	74.8	138	—	—	737	—	18"	49.7	109	—	282	—	—
20"	89.4	167	—	—	930	—	20"	65.5	136	—	344	—	—
24"	120	235	—	—	1508	—	24"	90.5	204	—	651	—	—



Blind flange weight (kg, approximate)

NPS in	Class 150 kg	Class 300 kg	Class 600 kg	Class 900 kg	Class 1500 kg	Class 2500 kg
½"	0.5	—	—	1.8	1.8	3.2
¾"	—	—	1.4	2.7	2.7	—
1"	0.9	1.4	1.8	3.7	3.7	5.0
1¼"	1.2	—	2.3	4.1	4.1	7.8
1½"	1.6	—	3.6	5.9	5.9	10.5
2"	2.6	—	4.5	10.1	10.1	18
2½"	—	4.8	6.8	15.9	15.9	25.5
3"	—	6.8	9.1	13.2	21.8	39
3½"	5.9	9.5	13.2	—	—	—
4"	7.4	12.0	18.6	24.0	33	61.5
5"	8.8	16.0	31.0	39.0	64	102
6"	11.3	21.2	39.0	52.0	75	157
8"	19.9	34.6	63.0	90.0	136	241
10"	29.4	55.3	104	132	232	470
12"	43.7	78.9	134	188	314	—
14"	59.4	107	166	235	443	—
16"	77.1	139	231	276	591	—
18"	94.8	177	293	391	795	—
20"	123	223	376	493	1022	—
24"	188	342	565	932	1648	—

Notes

- Weights are approximate catalogue values for carbon steel and are for estimation only.
- A dash means no reliable published value was available for that size and class.

Reference information compiled from the published standard for convenience. It does not replace the current edition of the governing standard, which takes precedence. Verify critical dimensions and properties before design, purchase or fabrication. Teshi Engineers & Sales Promoters (P) Ltd accepts no liability for errors or omissions.

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