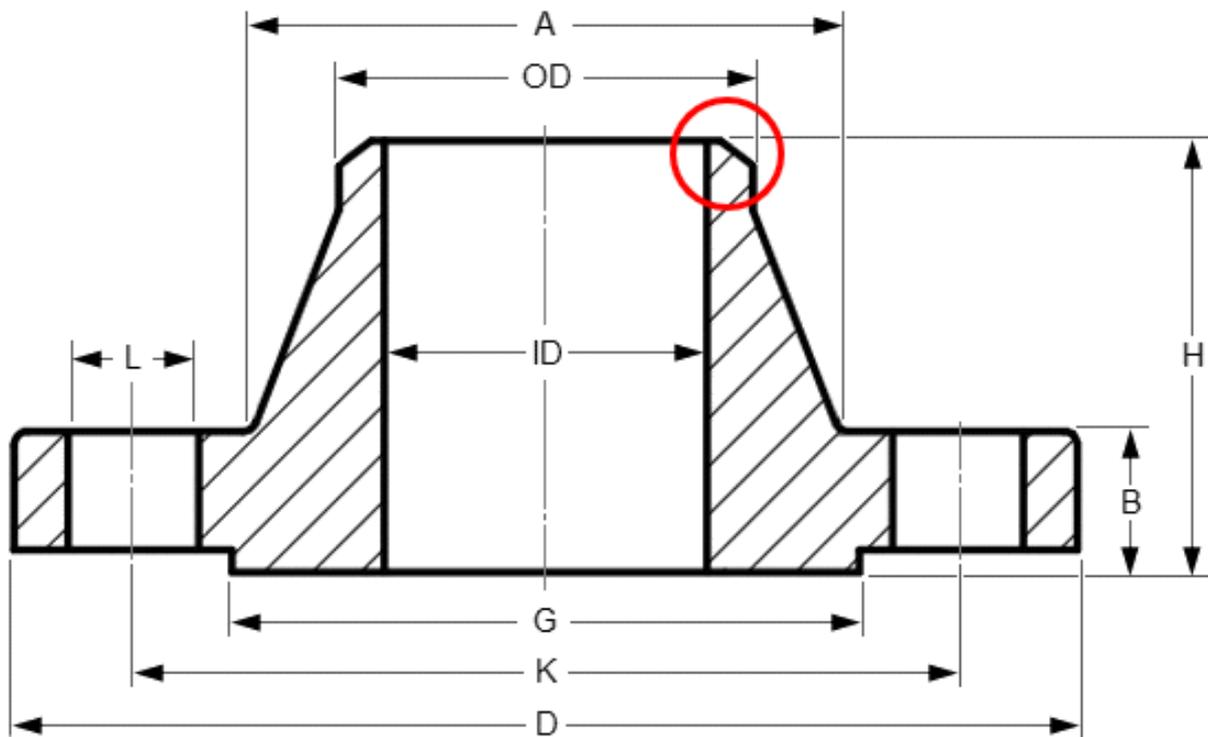


# CARBON STEEL WNRF FLANGE DIMENSION CHART PDF

## CARBON STEEL WNRF FLANGE DIMENSION ANALYSIS DIAGRAM



OD: Outer Diameter

A, D, K, L stands for various diameter

H stands for Height

ID: Inner Diameter

B stands for thickness

**DIMENSIONS IN INCHES ASME B16.5 CLASS 150 WELD NECK FLANGES**

NPS inches	NPS mm	Diameter D	Thickness B	Diameter A	Diameter OD	Height H	Diameter K	Diameter L
1/2	15	3.5	0.38	1.19	0.84	1.81	2.38	5/8
3/4	20	3.88	0.44	1.5	1.05	2	2.75	5/8
1	25	4.25	0.5	1.94	1.32	2.12	3.12	5/8
1.1/4	32	4.62	0.56	2.31	1.66	2.19	3.5	5/8
1.1/2	40	5	0.62	2.56	1.9	2.38	3.88	5/8
2	50	6	0.69	3.06	2.38	2.44	4.75	3/4
2.1/2	65	7	0.81	3.56	2.88	2.69	5.5	3/4
3	80	7.5	0.88	4.25	3.5	2.69	6	3/4
3.1/2	90	8.5	0.88	4.81	4	2.75	7	3/4
4	100	9	0.88	5.31	4.5	2.94	7.5	3/4
5	125	10	0.88	6.44	5.56	3.44	8.5	7/8
6	150	11	0.94	7.56	6.63	3.44	9.5	7/8
8	200	13.5	1.06	9.69	8.63	3.94	11.75	7/8
10	250	16	1.12	12	10.75	3.94	14.25	1
12	300	19	1.19	14.38	12.75	4.44	17	1
14	350	21	1.31	15.75	14	4.94	18.75	1.1/8
16	400	23.5	1.38	18	16	4.94	21.25	1.1/8
18	450	25	1.5	19.88	18	5.44	22.75	1.1/4
20	500	27.5	1.62	22	20	5.62	25	1.1/4
24	600	32	1.81	26.12	24	5.94	29.5	1.3/8

**DIMENSIONS IN INCHES ASME B16.5 CLASS 300 WELD NECK FLANGES**

NPS inches	NPS mm	Diameter D	Thickness B	Diameter A	Diameter OD	Height H	Diameter K	Diameter L
1/2	15	3.75	0.5	1.5	0.84	2	2.62	5/8
3/4	20	4.62	0.56	1.88	1.05	2.19	3.25	3/4
1	25	4.88	0.62	2.12	1.32	2.38	3.5	3/4
1.1/4	32	5.25	0.69	2.5	1.66	2.5	3.88	3/4
1.1/2	40	6.12	0.75	2.75	1.9	2.63	4.5	7/8
2	50	6.5	0.81	3.31	2.38	2.69	5	3/4
2.1/2	65	7.5	0.94	3.94	2.88	2.94	5.88	7/8
3	80	8.25	1.06	4.62	3.5	3.06	6.62	7/8
3.1/2	90	9	1.12	5.25	4	3.13	7.25	7/8
4	100	10	1.19	5.75	4.5	3.32	7.88	7/8
5	125	11	1.31	7	5.56	3.82	9.25	7/8
6	150	12.5	1.38	8.12	6.63	3.82	10.62	7/8
8	200	15	1.56	10.25	8.63	4.32	13	1
10	250	17.5	1.81	12.62	10.75	4.56	15.25	1.1/8
12	300	20.5	1.94	14.75	12.75	5.06	17.75	1.1/4
14	350	23	2.06	16.75	14	5.56	20.25	1.1/4
16	400	25.5	2.19	19	16	5.69	22.5	1.3/8
18	450	28	2.31	21	18	6.19	24.75	1.3/8
20	500	30.5	2.44	23.12	20	6.32	27	1.3/8
24	600	36	2.69	27.62	24	6.56	32	1.5/8

**DIMENSIONS IN INCHES ASME B16.5 CLASS 400 WELD NECK FLANGES**

NPS inches	NPS mm	Diameter D	Thickness B	Diameter A	Diameter OD	Height H	Diameter K	Diameter L
1/2	15	3.75	0.56	1.5	0.84	2.06	2.62	5/8
3/4	20	4.62	0.62	1.88	1.05	2.25	3.25	3/4
1	25	4.88	0.69	2.12	1.32	2.44	3.5	3/4
1.1/4	32	5.25	0.81	2.5	1.66	2.62	3.88	3/4
1.1/2	40	6.12	0.88	2.75	1.9	2.75	4.5	7/8
2	50	6.5	1	3.31	2.38	2.88	5	3/4
2.1/2	65	7.5	1.12	3.94	2.88	3.12	5.88	7/8
3	80	8.25	1.25	4.62	3.5	3.25	6.62	7/8
3.1/2	90	9	1.38	5.25	4	3.38	7.25	1
4	100	10	1.38	5.75	4.5	3.5	7.88	1
5	125	11	1.5	7	5.56	4	9.25	1
6	150	12.5	1.62	8.12	6.63	4.06	10.62	1
8	200	15	1.88	10.25	8.63	4.62	13	1.1/8
10	250	17.5	2.12	12.62	10.75	4.88	15.25	1.1/4
12	300	20.5	2.25	14.75	12.75	5.38	17.75	1.3/8
14	350	23	2.38	16.75	14	5.88	20.25	1.3/8
16	400	25.5	2.5	19	16	6	22.5	1.1/2
18	450	28	2.62	21	18	6.5	24.75	1.1/2
20	500	30.5	2.75	23.12	20	6.62	27	1.5/8
24	600	36	3	27.62	24	6.88	32	1.7/8

**DIMENSIONS IN INCHES ASME B16.5 CLASS 600 WELD NECK FLANGES**

NPS inches	NPS mm	Diameter D	Thickness B	Diameter A	Diameter OD	Height H	Diameter K	Diameter L
1/2	15	3.75	0.56	1.5	0.84	2.06	2.62	5/8
3/4	20	4.62	0.62	1.88	1.05	2.25	3.25	3/4
1	25	4.88	0.69	2.12	1.32	2.44	3.5	3/4
1.1/4	32	5.25	0.81	2.5	1.66	2.62	3.88	3/4
1.1/2	40	6.12	0.88	2.75	1.9	2.75	4.5	7/8
2	50	6.5	1	3.31	2.38	2.88	5	3/4
2.1/2	65	7.5	1.12	3.94	2.88	3.12	5.88	7/8
3	80	8.25	1.25	4.62	3.5	3.25	6.62	7/8
3.1/2	90	9	1.38	5.25	4	3.38	7.25	1
4	100	10.75	1.5	6	4.5	4	8.5	1
5	125	13	1.75	7.44	5.56	4.5	10.5	1.1/8
6	150	14	1.88	8.75	6.63	4.62	11.5	1.1/8
8	200	16.5	2.19	10.75	8.63	5.25	13.75	1.1/4
10	250	20	2.5	13.5	10.75	6	17	1.3/8
12	300	22	2.62	15.75	12.75	6.12	19.25	1.3/8
14	350	23.75	2.75	17	14	6.5	20.75	1.1/2
16	400	27	3	19.5	16	7	23.75	1.5/8
18	450	29.25	3.25	21.5	18	7.25	25.75	1.3/4
20	500	32	3.5	24	20	7.5	28.5	1.3/4
24	600	37	4	28.25	24	8	33	2

**DIMENSIONS IN INCHES ASME B16.5 CLASS 900 WELD NECK FLANGES**

NPS inches	NPS mm	Diameter D	Thickness B	Diameter A	Diameter OD	Height H	Diameter K	Diameter L
1/2	15	4.75	0.88	1.5	0.84	2.38	3.25	7/8
3/4	20	5.12	1	1.75	1.05	2.75	3.5	7/8
1	25	5.88	1.12	2.06	1.32	2.88	4	1
1.1/4	32	6.25	1.12	2.5	1.66	2.88	4.38	1
1.1/2	40	7	1.25	2.75	1.9	3.25	4.88	1.1/8
2	50	8.50	1.5	4.12	2.38	4	6.5	1
2.1/2	65	9.62	1.62	4.88	2.88	4.12	7.5	1.1/8
3	80	9.5	1.5	5	3.5	4	7.5	1
4	100	11.5	1.75	6.25	4.5	4.5	9.25	1.1/4
5	125	13.75	2	7.5	5.56	5	11	1.3/8
6	150	15	2.19	9.25	6.63	5.5	12.5	1.1/4
8	200	18.5	2.5	11.75	8.63	6.38	15.5	1.1/2
10	250	21.5	2.75	14.5	10.75	7.25	18.5	1.1/2
12	300	24	3.12	16.5	12.75	7.88	21	1.1/2
14	350	25.25	3.38	17.75	14	8.38	22	1.5/8
16	400	27.75	3.5	20	16	8.5	24.25	1.3/4
18	450	31	4	22.25	18	9	27	2
20	500	33.75	4.25	24.5	20	9.75	29.5	2.1/8
24	600	41	5.5	29.5	24	11.5	35.5	2.5/8

**DIMENSIONS IN INCHES ASME B16.5 CLASS 1500 WELD NECK FLANGES**

NPS inches	NPS mm	Diameter D	Thickness B	Diameter A	Diameter OD	Height H	Diameter K	Diameter L
1/2	15	4.75	0.88	1.5	0.84	2.38	3.25	7/8
3/4	20	5.12	1	1.75	1.05	2.75	3.5	7/8
1	25	5.88	1.12	2.06	1.32	2.88	4	1
1.1/4	32	6.25	1.12	2.5	1.66	2.88	4.38	1
1.1/2	40	7	1.25	2.75	1.9	3.25	4.88	1.1/8
2	50	8.50	1.5	4.12	2.38	4	6.5	1
2.1/2	65	9.62	1.62	4.88	2.88	4.12	7.5	1.1/8
3	80	10.5	1.88	5.25	3.5	4.62	8	1.1/4
4	100	12.25	2.12	6.38	4.5	4.88	9.5	1.3/8
5	125	14.75	2.88	7.75	5.56	6.12	11.5	1.5/8
6	150	15.5	3.25	9	6.63	6.75	12.5	1.1/2
8	200	19	3.62	11.5	8.63	8.38	15.5	1.3/4
10	250	23	4.25	14.5	10.75	10	19	2
12	300	26.5	4.88	17.75	12.75	11.12	22.5	2.1/8
14	350	29.5	5.25	19.5	14	11.75	25	2.3/8
16	400	32.5	5.75	21.75	16	12.25	27.75	2.5/8
18	450	36	6.38	23.5	18	12.88	30.5	2.7/8
20	500	38.75	7	25.25	20	14	32.75	3.1/8
24	600	46	8	30	24	16	39	3.5/8

**DIMENSIONS IN INCHES ASME B16.5 CLASS 2500 WELD NECK FLANGES**

NPS inches	NPS mm	Diameter D	Thickness B	Diameter A	Diameter OD	Height H	Diameter K	Diameter L
1/2	15	5.25	1.19	1.69	0.84	2.88	3.5	7/8
3/4	20	5.5	1.25	2	1.05	3.12	3.75	7/8
1	25	6.25	1.38	2.25	1.32	3.5	4.25	1
1.1/4	32	7.25	1.5	2.88	1.66	3.75	5.12	1.1/8
1.1/2	40	8	1.75	3.12	1.9	4.38	5.75	1.1/4
2	50	9.25	2	3.75	2.38	5	6.75	1.1/8
2.1/2	65	10.5	2.25	4.5	2.88	5.62	7.75	1.1/4
3	80	12	2.62	5.25	3.5	6.62	9	1.3/8
4	100	14	3	6.5	4.5	7.5	10.75	1.5/8
5	125	16.5	3.62	8	5.56	9	12.75	1.7/8
6	150	19	4.25	9.25	6.63	10.75	14.5	2.1/8
8	200	21.75	5	12	8.63	12.5	17.25	2.1/8
10	250	26.5	6.5	14.75	10.75	16.5	21.25	2.5/8
12	300	30	7.25	17.38	12.75	18.25	24.38	2.7/8

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