

Process **Fittings**

Flanges – Dimensions and Pressure Class



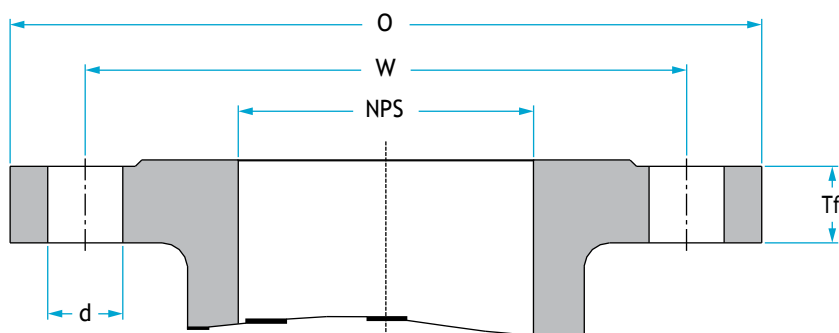
1. Flange Cap/Blind	2. Flange Stubend Adapter
3. Lap Joint Flange	4. Slip on Flange
5. Socket Weld Flange	6. Steel Flange With Sanitary Outlet
7. Threaded Flange – Flat End	8. Threaded Flange – Raise End
9. Threaded Flange Reducer	10. Weld Neck Flange

Flange dimensions

ANSI B16.5

DIN EN1092

ANSI B16.5 | Class 150



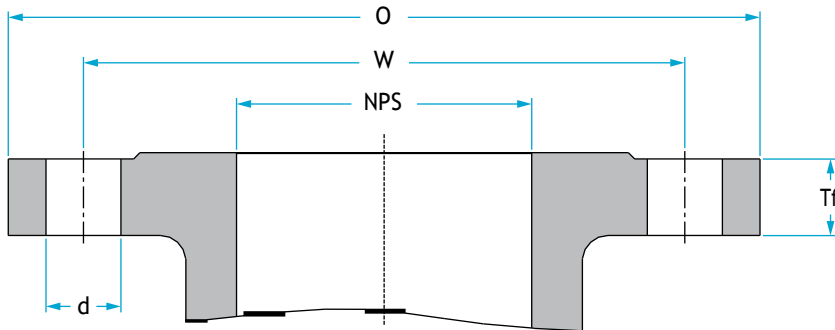
NPS	O		W		Tf		d		Number
Nominal Pipe Size	mm	inch	mm	inch	mm	inch	mm	inch	holes
1/2"	90.00	3.54	60.30	2.37	9.60	0.38	15.88	5/8	4
3/4"	100.00	3.94	69.90	2.75	11.20	0.44	15.88	5/8	4
1"	110.00	4.33	79.40	3.13	12.70	0.50	15.88	5/8	4
1 1/4"	115.00	4.53	88.90	3.50	14.30	0.56	15.88	5/8	4
1 1/2"	125.00	4.92	98.40	3.87	15.90	0.63	15.88	5/8	4
2"	150.00	5.91	120.70	4.75	17.50	0.69	19.05	3/4	4
2 1/2"	180.00	7.09	139.70	5.50	20.70	0.81	19.05	3/4	4
3"	190.00	7.48	152.40	6.00	22.30	0.88	19.05	3/4	4
3 1/2"	215.00	8.46	177.80	7.00	22.30	0.88	19.05	3/4	8
4"	230.00	9.06	190.50	7.50	22.30	0.88	19.05	3/4	8
5"	255.00	10.04	215.90	8.50	22.30	0.88	22.23	7/8	8
6"	280.00	11.02	241.30	9.50	23.90	0.94	22.23	7/8	8
8"	345.00	13.58	298.50	11.75	27.00	1.06	22.23	7/8	8
10"	405.00	15.94	362.00	14.25	28.60	1.13	25.40	1	12
12"	485.00	19.09	431.80	17.00	30.20	1.19	25.40	1	12
14"	535.00	21.06	476.30	18.75	33.40	1.31	28.58	1 1/8	12
16"	595.00	23.43	539.80	21.25	35.00	1.38	28.58	1 1/8	16
18"	635.00	25.00	577.90	22.75	38.10	1.50	31.75	1 1/4	16
20"	700.00	27.56	635.00	25.00	41.30	1.63	31.75	1 1/4	20
24"	815.00	32.09	749.30	29.50	46.10	1.81	31.75	1 3/8	20

Flange dimensions

ANSI B16.5

DIN EN1092

ANSI B16.5 | Class 300



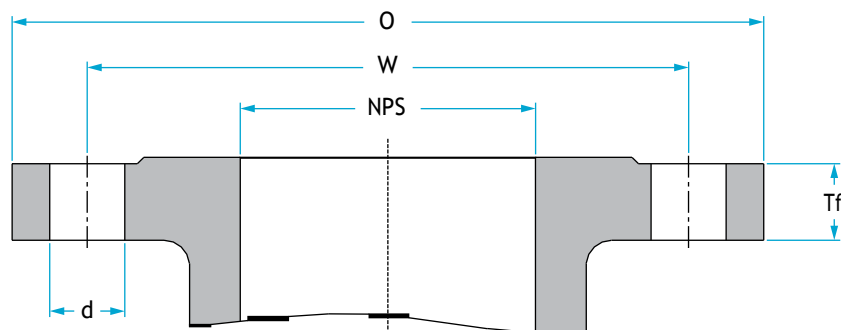
NPS	O		W		Tf		d		Number
Nominal	mm	inch	mm	inch	mm	inch	mm	inch	holes
1/2"	95.00	3.74	66.70	2.63	12.70	0.50	15.88	5/8	4
3/4"	115.00	4.53	82.60	3.25	14.30	0.56	19.05	3/4	4
1"	125.00	4.92	88.90	3.50	15.90	0.63	19.05	3/4	4
1 1/4"	135.00	5.31	98.40	3.87	17.50	0.69	19.05	3/4	4
1 1/2"	155.00	6.10	114.30	4.50	19.10	0.75	22.23	7/8	4
2"	165.00	6.50	127.00	5.00	20.70	0.81	19.05	5/8	8
2 1/2"	190.00	7.48	149.20	5.87	23.90	0.94	22.23	5/8	8
3"	210.00	8.27	168.30	6.63	27.00	1.06	22.23	5/8	8
3 1/2"	230.00	9.06	184.20	7.25	28.60	1.13	22.23	5/8	8
4"	255.00	10.04	200.00	7.87	30.20	1.19	22.23	5/8	8
5"	280.00	11.02	235.00	9.25	33.40	1.31	22.23	5/8	8
6"	320.00	12.60	269.90	10.63	35.00	1.38	22.23	5/8	12
8"	380.00	14.96	330.20	13.00	39.70	1.56	25.40	1	12
10"	445.00	17.52	387.40	15.25	46.10	1.81	28.58	1 1/8	16
12"	520.00	20.47	450.80	17.75	49.30	1.94	31.75	1 1/4	16
14"	585.00	23.03	514.40	20.25	52.40	2.06	31.75	1 1/4	20
16"	650.00	25.59	571.50	22.50	55.60	2.19	34.93	1 3/8	20
18"	710.00	27.95	628.60	24.75	58.80	2.31	34.93	1 3/8	24
20"	775.00	30.51	685.80	27.00	62.00	2.44	34.93	1 3/8	24
24"	915.00	36.02	812.80	32.00	68.30	2.69	41.28	1 5/8	24

Flange dimensions

ANSI B16.5

DIN EN1092

ANSI B16.5 | Class 400



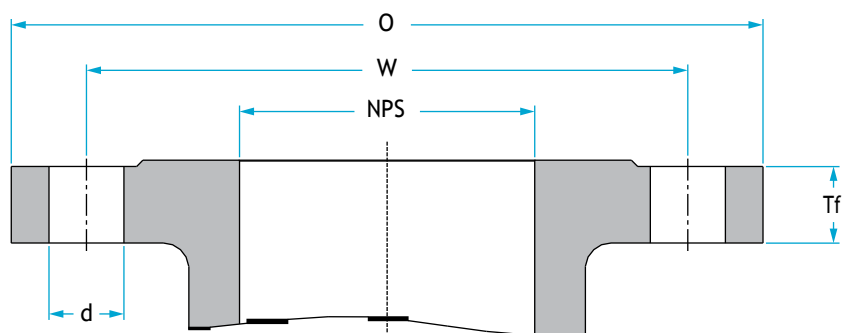
NPS Nominal Pipe Size	O		W		Tf		d		Number holes
	mm	inch	mm	inch	mm	inch	mm	inch	
1/2"	95.00	3.74	66.70	2.63	14.30	0.56	15.88	5/8	4
3/4"	115.00	4.53	82.60	3.25	15.90	0.63	19.05	3/4	4
1"	125.00	4.92	88.90	3.50	17.50	0.69	19.05	3/4	4
1 1/4"	135.00	5.31	98.40	3.87	20.70	0.81	19.05	3/4	4
1 1/2"	155.00	6.10	114.30	4.50	22.30	0.88	22.23	7/8	4
2"	165.00	6.50	127.00	5.00	25.40	1.00	19.05	3/4	8
2 1/2"	190.00	7.48	149.20	5.87	28.60	1.13	22.23	7/8	8
3"	210.00	8.27	168.30	6.63	31.80	1.25	22.23	7/8	8
3 1/2"	230.00	9.06	184.20	7.25	35.00	1.38	25.40	1	8
4"	255.00	10.04	200.00	7.87	35.00	1.38	25.40	1	8
5"	280.00	11.02	235.00	9.25	38.10	1.50	25.40	1	8
6"	320.00	12.60	269.90	10.63	41.30	1.63	25.40	1	12
8"	380.00	14.96	330.00	12.99	47.70	1.88	28.58	1 1/8	12
10"	445.00	17.52	387.40	15.25	54.00	2.13	31.75	1 1/4	16
12"	520.00	20.47	450.80	17.75	57.20	2.25	34.93	1 3/8	16
14"	585.00	23.03	514.40	20.25	60.40	2.38	34.93	1 3/8	20
16"	650.00	25.59	571.50	22.50	63.50	2.50	38.10	1 1/2	20
18"	710.00	27.95	628.60	24.75	66.70	2.63	38.10	1 1/2	24
20"	775.00	30.51	685.80	27.00	69.90	2.75	41.28	1 5/8	24
24"	915.00	36.02	812.80	32.00	76.20	3.00	47.63	1 7/8	24

Flange dimensions

ANSI B16.5

DIN EN1092

ANSI B16.5 | Class 600



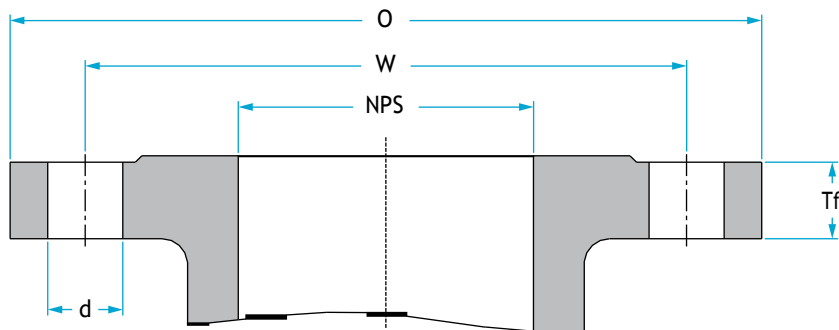
NPS	O		W		Tf		d		Number
Nominal	mm	inch	mm	inch	mm	inch	mm	inch	holes
Pipe Size	mm	inch	mm	inch	mm	inch	mm	inch	holes
1/2"	95.00	3.74	66.70	2.63	14.30	0.56	15.88	5/8	4
3/4"	115.00	4.53	82.60	3.25	15.90	0.63	19.05	3/4	4
1"	125.00	4.92	88.90	3.50	17.50	0.69	19.05	3/4	4
1 1/4"	135.00	5.31	98.40	3.87	20.70	0.81	19.05	3/4	4
1 1/2"	155.00	6.10	114.30	4.50	22.30	0.88	22.23	7/8	4
2"	165.00	6.50	127.00	5.00	25.40	1.00	19.05	3/4	8
2 1/2"	190.00	7.48	149.20	5.87	28.60	1.13	22.23	7/8	8
3"	210.00	8.27	168.30	6.63	31.80	1.25	22.23	7/8	8
3 1/2"	230.00	9.06	184.20	7.25	35.00	1.38	25.40	1	8
4"	275.00	10.83	215.90	8.50	38.10	1.50	25.40	1	8
5"	330.00	12.99	266.70	10.50	44.50	1.75	28.58	1 1/8	8
6"	355.00	13.98	292.10	11.50	47.70	1.88	28.58	1 1/8	12
8"	420.00	16.54	349.20	13.75	55.60	2.19	31.75	1 1/4	12
10"	510.00	20.08	431.80	17.00	63.50	2.50	34.93	1 3/8	16
12"	560.00	22.05	489.00	19.25	66.70	2.63	34.93	1 3/8	20
14"	605.00	23.82	527.00	20.75	69.90	2.75	38.10	1 1/2	20
16"	685.00	26.97	603.20	23.75	76.20	3.00	41.28	1 5/8	20
18"	745.00	29.33	654.00	25.75	82.60	3.25	44.45	1 3/4	20
20"	815.00	32.09	723.90	28.50	88.90	3.50	44.45	1 3/4	24
24"	940.00	37.01	838.20	33.00	101.60	4.00	50.80	2	24

Flange dimensions

ANSI B16.5

DIN EN1092

ANSI B16.5 | Class 900



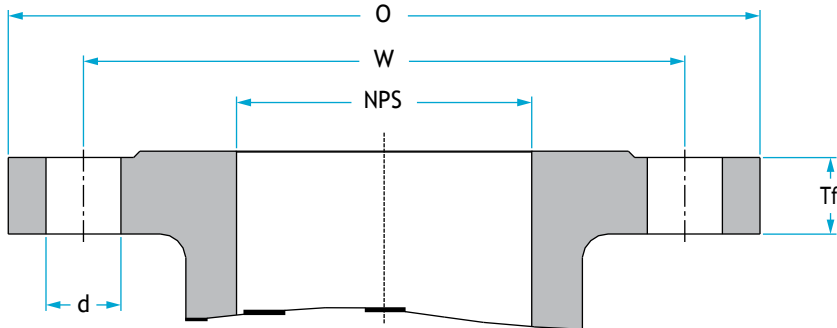
NPS	O		W		Tf		d		Number
Nominal	mm	inch	mm	inch	mm	inch	mm	inch	holes
1/2"	120.00	4.72	82.60	3.25	22.30	0.88	22.23	7/8	4
3/4"	130.00	5.12	88.90	3.50	25.40	1.00	22.23	7/8	4
1"	150.00	5.91	101.60	4.00	28.60	1.13	25.40	1	4
1 1/4"	160.00	6.30	111.10	4.37	28.60	1.13	25.40	1	4
1 1/2"	180.00	7.09	123.80	4.87	31.80	1.25	28.58	1 1/8	4
2"	215.00	8.46	165.10	6.50	38.10	1.50	25.40	1	8
2 1/2"	245.00	9.65	190.50	7.50	41.30	1.63	28.58	1 1/8	8
3"	240.00	9.45	190.50	7.50	38.10	1.50	25.40	1	8
4"	290.00	11.42	235.00	9.25	44.50	1.75	31.75	1 1/4	8
5"	350.00	13.78	279.40	11.00	50.80	2.00	34.93	1 3/8	8
6"	380.00	14.96	317.50	12.50	55.60	2.19	31.75	1 1/4	12
8"	470.00	18.50	393.70	15.50	63.50	2.50	38.10	1 1/2	12
10"	545.00	21.46	469.90	18.50	69.90	2.75	38.10	1 1/2	16
12"	610.00	24.02	533.40	21.00	79.40	3.13	38.10	1 1/2	20
14"	640.00	25.20	558.80	22.00	85.80	3.38	41.28	1 5/8	20
16"	705.00	27.76	616.00	24.25	88.90	3.50	44.45	1 3/4	20
18"	785.00	30.91	685.80	27.00	101.60	4.00	50.80	2	20
20"	855.00	33.66	749.30	29.50	108.00	4.25	53.98	2 1/8	20
24"	1,040.00	40.94	901.70	35.50	139.70	5.50	66.68	2 5/8	20

Flange dimensions

ANSI B16.5

DIN EN1092

ANSI B16.5 | Class 1500



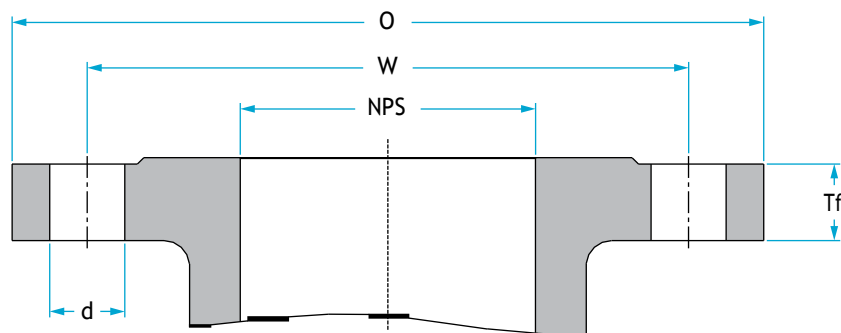
NPS	O		W		Tf		d		Number
Nominal	mm	inch	mm	inch	mm	inch	mm	inch	holes
Pipe Size	mm	inch	mm	inch	mm	inch	mm	inch	holes
1/2"	120.00	4.72	82.60	3.25	22.30	0.88	22.23	7/8	4
3/4"	130.00	5.12	88.90	3.50	25.40	1.00	22.23	7/8	4
1"	150.00	5.91	101.60	4.00	28.60	1.13	25.40	1	4
1 1/4"	160.00	6.30	111.10	4.37	28.60	1.13	25.40	1	4
1 1/2"	180.00	7.09	123.80	4.87	31.80	1.25	28.58	1 1/8	4
2"	215.00	8.46	165.10	6.50	38.10	1.50	25.40	1	8
2 1/2"	245.00	9.65	190.50	7.50	41.30	1.63	28.58	1 1/8	8
3"	265.00	10.43	203.20	8.00	47.70	1.88	31.75	1 1/4	8
4"	310.00	12.20	241.30	9.50	54.00	2.13	34.93	1 3/8	8
5"	375.00	14.76	292.10	11.50	73.10	2.88	41.28	1 5/8	8
6"	395.00	15.55	317.50	12.50	82.60	3.25	38.10	1 1/2	12
8"	485.00	19.09	393.70	15.50	92.10	3.63	44.45	1 3/4	12
10"	585.00	23.03	482.60	19.00	108.00	4.25	50.80	2	12
12"	675.00	26.57	571.50	22.50	123.90	4.88	53.98	2 1/8	16
14"	750.00	29.53	635.00	25.00	133.40	5.25	60.33	2 3/8	16
16"	825.00	32.48	704.80	27.75	146.10	5.75	66.68	2 5/8	16
18"	915.00	36.02	774.70	30.50	162.00	6.38	73.03	2 7/8	16
20"	985.00	38.78	831.80	32.75	177.80	7.00	79.38	3 1/8	16
24"	1170.00	46.06	990.60	39.00	203.20	8.00	92.08	3 5/8	16

Flange dimensions

ANSI B16.5

DIN EN1092

ANSI B16.5 | Class 2500



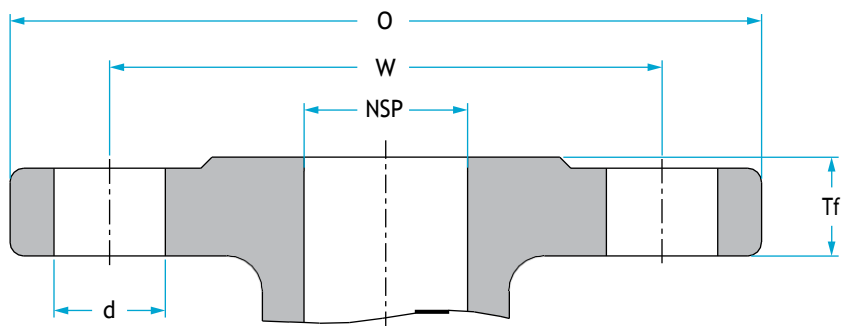
NPS	O		W		Tf		d		Number
Nominal	mm	inch	mm	inch	mm	inch	mm	inch	holes
1/2"	135.00	5.31	88.90	3.50	30.20	1.19	22.23	7/8	4
3/4"	140.00	5.51	95.20	3.75	31.80	1.25	22.23	7/8	4
1"	160.00	6.30	108.00	4.25	35.00	1.38	25.40	1	4
1 1/4"	185.00	7.28	130.20	5.13	38.10	1.50	28.58	1 1/8	4
1 1/2"	205.00	8.07	146.00	5.75	44.50	1.75	31.75	1 1/4	4
2"	235.00	9.25	171.40	6.75	50.90	2.00	28.58	1 1/8	8
2 1/2"	265.00	10.43	196.80	7.75	57.20	2.25	31.75	1 1/4	8
3"	305.00	12.01	228.60	9.00	66.70	2.63	34.93	1 3/8	8
4"	355.00	13.98	273.00	10.75	76.20	3.00	41.28	1 5/8	8
5"	420.00	16.54	323.80	12.75	92.10	3.63	47.63	1 7/8	8
6"	485.00	19.09	368.30	14.50	108.00	4.25	53.98	2 1/8	8
8"	550.00	21.65	438.20	17.25	127.00	5.00	53.98	2 1/8	12
10"	675.00	26.57	539.80	21.25	165.10	6.50	66.68	2 5/8	12
12"	760.00	29.92	619.10	24.37	184.20	7.25	73.03	2 7/8	12

Flange dimensions

ANSI B16.5

DIN EN1092

DIN EN1092 | DIN PN10



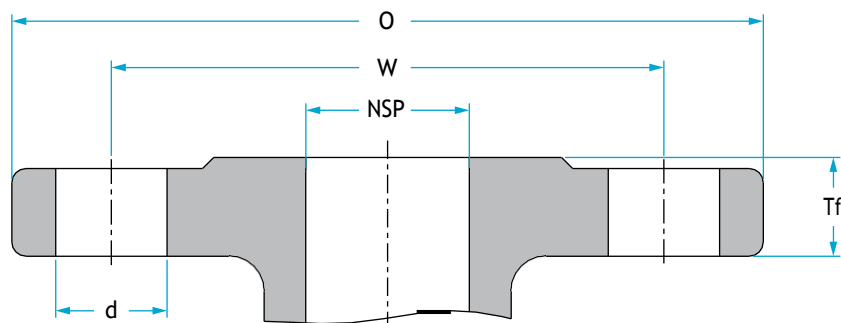
NPS Nominal Pipe Size	O		W		Tf		d		Number holes
	mm	inch	mm	inch	mm	inch	mm	inch	
10	90.00	3.54	60.00	2.36	16.00	0.63	14.00	5/8	4
15	95.00	3.74	65.00	2.56	16.00	0.63	14.00	5/8	4
20	105.00	4.13	75.00	2.95	18.00	0.71	14.00	5/8	4
25	115.00	4.53	85.00	3.35	18.00	0.71	14.00	5/8	4
32	140.00	5.51	100.00	3.94	18.00	0.71	18.00	5/7	4
40	150.00	5.91	110.00	4.33	18.00	0.71	18.00	5/7	4
50	165.00	6.50	125.00	4.92	18.00	0.71	18.00	5/7	4
65	185.00	7.28	145.00	5.71	18.00	0.71	18.00	5/7	8
80	200.00	7.87	160.00	6.30	20.00	0.79	18.00	5/7	8
100	220.00	8.66	180.00	7.09	20.00	0.79	18.00	5/7	8
125	250.00	9.84	210.00	8.27	22.00	0.87	18.00	5/7	8
150	285.00	11.22	240.00	9.45	22.00	0.87	22.00	7/8	8
200	340.00	13.39	295.00	11.61	24.00	0.94	22.00	7/8	8
250	395.00	15.55	350.00	13.78	26.00	1.02	22.00	7/8	12
300	445.00	17.52	400.00	15.75	26.00	1.02	22.00	7/8	12
350	505.00	19.88	460.00	18.11	26.00	1.02	22.00	7/8	16
400	565.00	22.24	515.00	20.28	26.00	1.02	26.00	1 1/50	16
450	615.00	24.21	565.00	22.24	28.00	1.10	26.00	1 1/50	20
500	670.00	26.38	620.00	24.41	28.00	1.10	26.00	1 1/50	20
600	780.00	30.71	725.00	28.54	30.00	1.18	30.00	1 1/50	

Flange dimensions

ANSI B16.5

DIN EN1092

DIN EN1092 | DIN PN16



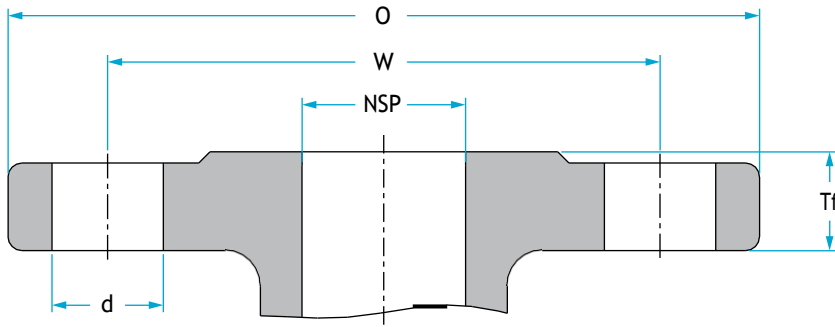
NPS Nominal Pipe Size	O		W		Tf		d		Number holes
	mm	inch	mm	inch	mm	inch	mm	inch	
10	90.00	3.54	60.00	2.36	16.00	0.63	14.00	0.55	4
15	95.00	3.74	65.00	2.56	16.00	0.63	14.00	0.55	4
20	105.00	4.13	75.00	2.95	18.00	0.71	14.00	0.55	4
25	115.00	4.53	85.00	3.35	18.00	0.71	14.00	0.55	4
32	140.00	5.51	100.00	3.94	18.00	0.71	18.00	0.71	4
40	150.00	5.91	110.00	4.33	18.00	0.71	18.00	0.71	4
50	165.00	6.50	125.00	4.92	18.00	0.71	18.00	0.71	4
65	185.00	7.28	145.00	5.71	18.00	0.71	18.00	0.71	8
80	200.00	7.87	160.00	6.30	20.00	0.79	18.00	0.71	8
100	220.00	8.66	180.00	7.09	20.00	0.79	18.00	0.71	8
125	250.00	9.84	210.00	8.27	22.00	0.87	18.00	0.87	8
150	285.00	11.22	240.00	9.45	22.00	0.87	22.00	0.87	8
200	340.00	13.39	295.00	11.61	24.00	0.94	26.00	1.02	12
250	405.00	15.94	350.00	13.78	26.00	1.02	26.00	1.02	12
300	460.00	18.11	400.00	15.75	28.00	1.10	26.00	1.02	12
350	520.00	20.47	460.00	18.11	30.00	1.18	26.00	1.02	16
400	580.00	22.83	515.00	20.28	32.00	1.26	30.00	1.3	16
450	640.00	25.20	565.00	22.24	34.00	1.34	30.00	1.3	20
500	715.00	28.15	620.00	24.41	36.00	1.42	33.00	1.3	20
600	840.00	33.07	725.00	28.54	40.00	1.57	36.00	1.42	20

Flange dimensions

ANSI B16.5

DIN EN1092

DIN EN1092 | DIN PN25



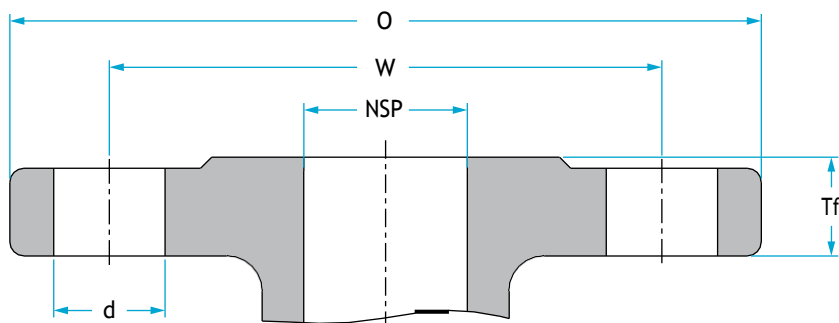
NPS Nominal Pipe Size	O		W		Tf		d		Number holes
	mm	inch	mm	inch	mm	inch	mm	inch	
10	90.00	3.54	60.00	2.36	16.00	0.63	14.00	0.55	4
15	95.00	3.74	65.00	2.56	16.00	0.63	14.00	0.55	4
20	105.00	4.13	75.00	2.95	18.00	0.71	14.00	0.55	4
25	115.00	4.53	85.00	3.35	18.00	0.71	14.00	0.55	4
32	140.00	5.51	100.00	3.94	18.00	0.71	18.00	0.71	4
40	150.00	5.91	110.00	4.33	18.00	0.71	18.00	0.71	4
50	165.00	6.50	125.00	4.92	20.00	0.79	18.00	0.71	4
65	185.00	7.28	145.00	5.71	22.00	0.87	18.00	0.71	8
80	200.00	7.87	160.00	6.30	24.00	0.94	18.00	0.71	8
100	235.00	9.25	190.00	7.48	24.00	0.94	22.00	0.86	8
125	270.00	10.63	220.00	8.66	26.00	1.02	26.00	1.02	8
150	300.00	11.81	250.00	9.84	28.00	1.10	26.00	1.02	8
200	360.00	14.17	310.00	12.20	30.00	1.18	26.00	1.02	12
250	425.00	16.73	370.00	14.57	32.00	1.26	30.00	1.18	12
300	485.00	19.09	430.00	16.93	34.00	1.34	30.00	1.18	16
350	555.00	21.85	490.00	19.29	38.00	1.50	33.00	1.70	16
400	620.00	24.41	550.00	21.65	40.00	1.57	36.00	1.42	16
450	670.00	26.38	600.00	23.62	46.00	1.81	36.00	1.42	20
500	730.00	28.74	660.00	25.98	48.00	1.89	36.00	1.42	20
600	845.00	33.27	770.00	30.31	48.00	1.89	39.00	1.53	20

Flange dimensions

ANSI B16.5

DIN EN1092

DIN EN1092 | DIN PN40



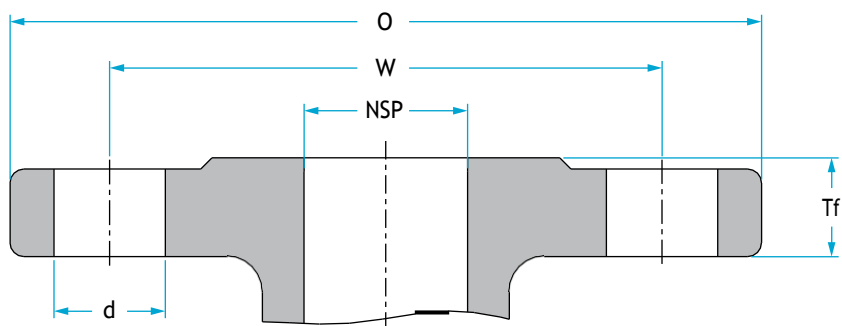
NPS Nominal Pipe Size	O		W		Tf		d		Number holes
	mm	inch	mm	inch	mm	inch	mm	inch	
10	90.00	3.54	60.00	2.36	16.00	0.63	1400.	0.55	4
15	95.00	3.74	65.00	2.56	16.00	0.63	14.00	0.55	4
20	105.00	4.13	75.00	2.95	18.00	0.71	14.00	0.55	4
25	115.00	4.53	85.00	3.35	18.00	0.71	14.00	0.55	4
32	140.00	5.51	100.00	3.94	18.00	0.71	18.00	0.71	4
40	150.00	5.91	110.00	4.33	18.00	0.71	18.00	0.71	4
50	165.00	6.50	125.00	4.92	20.00	0.79	18.00	0.71	4
65	185.00	7.28	145.00	5.71	22.00	0.87	18.00	0.71	8
80	200.00	7.87	160.00	6.30	24.00	0.94	18.00	0.71	8
100	235.00	9.25	190.00	7.48	24.00	0.94	22.00	0.87	8
125	270.00	10.63	220.00	8.66	26.00	1.02	26.00	1.02	8
150	300.00	11.81	250.00	9.84	28.00	1.10	26.00	1.02	8
200	375.00	14.76	320.00	12.60	34.00	1.34	30.00	1.18	12
250	450.00	17.72	385.00	15.16	38.00	1.50	33.00	1.02	12
300	515.00	20.28	450.00	17.72	42.00	1.65	33.00	1.3	16
350	580.00	22.83	510.00	20.08	46.00	1.81	36.00	1.42	16
400	660.00	25.98	585.00	23.03	50.00	1.97	39.00	1.53	16
450	685.00	26.97	610.00	24.02	57.00	2.24	39.00	1.53	20
500	755.00	29.72	670.00	26.38	57.00	2.24	42.00	1.65	20
600	890.00	35.04	795.00	31.30	72.00	2.83	48.00	1.89	20

Flange dimensions

ANSI B16.5

DIN EN1092

DIN EN1092 | DIN PN63



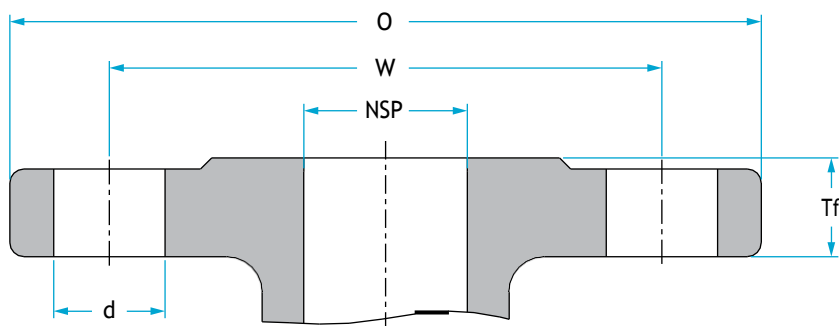
NPS Nominal Pipe Size	O		W		Tf		d		Number holes
	mm	inch	mm	inch	mm	inch	mm	inch	
10	100.00	3.94	70.00	2.76	20.00	0.79	14.00	0.55	4
15	105.00	4.13	75.00	2.95	20.00	0.79	14.00	0.55	4
20	130.00	5.12	90.00	3.54	22.00	0.87	18.00	0.71	4
25	140.00	5.51	100.00	3.94	24.00	0.94	18.00	0.71	4
32	155.00	6.10	110.00	4.33	24.00	0.94	22.00	0.87	4
40	170.00	6.69	125.00	4.92	26.00	1.02	22.00	0.87	4
50	180.00	7.09	135.00	5.31	26.00	1.02	22.00	0.87	4
65	205.00	8.07	160.00	6.30	26.00	1.02	22.00	0.87	8
80	215.00	8.46	170.00	6.69	28.00	1.10	22.00	0.87	8
100	250.00	9.84	200.00	7.87	30.00	1.18	26.00	1.02	8
125	295.00	11.61	240.00	9.45	34.00	1.34	30.00	1.18	8
150	345.00	13.58	280.00	11.02	36.00	1.42	33.00	1.18	8
200	415.00	16.34	345.00	13.58	42.00	1.65	36.00	1.42	12
250	470.00	18.50	400.00	15.75	46.00	1.81	36.00	1.42	12
300	530.00	20.87	460.00	18.11	52.00	2.05	36.00	1.42	16
350	600.00	23.62	525.00	20.67	56.00	2.20	39.00	1.53	16
400	670.00	26.38	585.00	23.03	60.00	2.36	42.00	1.65	16

Flange dimensions

ANSI B16.5

DIN EN1092

DIN EN1092 | DIN PN100



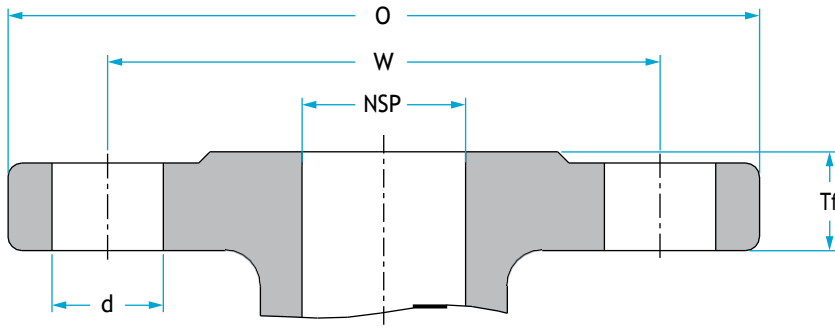
NPS Nominal Pipe Size	O		W		Tf		d		Number holes
	mm	inch	mm	inch	mm	inch	mm	inch	
10	100.00	3.94	70.00	2.76	20.00	0.79	14.00	0.55	4
15	105.00	4.13	75.00	2.95	20.00	0.79	14.00	0.55	4
20	130.00	5.12	90.00	3.54	22.00	0.87	18.00	0.71	4
25	140.00	5.51	100.00	3.94	24.00	0.94	18.00	0.71	4
32	155.00	6.10	110.00	4.33	24.00	0.94	22.00	0.87	4
40	170.00	6.69	125.00	4.92	26.00	1.02	22.00	0.87	4
50	195.00	7.68	145.00	5.71	28.00	1.10	26.00	1.02	4
65	220.00	8.66	170.00	6.69	30.00	1.18	26.00	1.02	8
80	230.00	9.06	180.00	7.09	32.00	1.26	26.00	1.02	8
100	265.00	10.43	210.00	8.27	36.00	1.42	30.00	1.18	8
125	315.00	12.40	250.00	9.84	40.00	1.57	33.00	1.3	8
150	355.00	13.98	290.00	11.42	44.00	1.73	33.00	1.3	12
200	430.00	16.93	360.00	14.17	52.00	2.05	36.00	1.42	12
250	505.00	19.88	430.00	16.93	60.00	2.36	39.00	1.53	12
300	585.00	23.03	500.00	19.69	68.00	2.68	42.00	1.65	16
350	655.00	25.79	560.00	22.05	74.00	2.91	48.00	1.89	16

Flange dimensions

ANSI B16.5

DIN EN1092

DIN EN1092 | DIN PN160

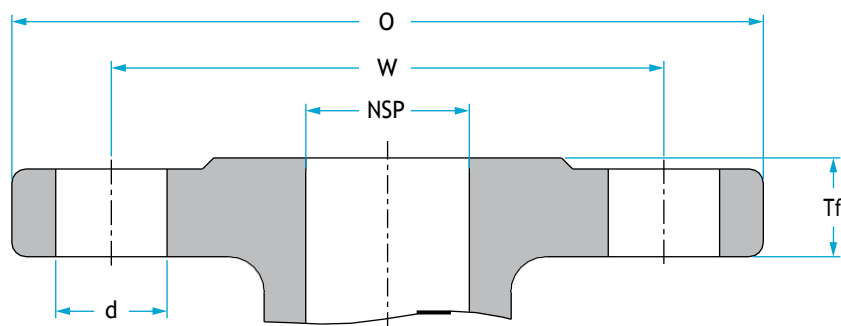


NPS Nominal Pipe Size	O		W		Tf		d		Number holes
	mm	inch	mm	inch	mm	inch	mm	inch	
10	100.00	3.94	70.00	2.76	20.00	0.79	14.00	0.55	4
15	105.00	4.13	75.00	2.95	20.00	0.79	14.00	0.55	4
25	140.00	5.51	100.00	3.94	24.00	0.94	18.00	0.71	4
40	170.00	6.69	125.00	4.92	28.00	1.10	22.00	0.87	4
50	195.00	7.68	145.00	5.71	30.00	1.18	26.00	1.02	4
65	220.00	8.66	170.00	6.69	34.00	1.34	26.00	1.02	8
80	230.00	9.06	180.00	7.09	36.00	1.42	26.00	1.02	8
100	265.00	10.43	210.00	8.27	40.00	1.57	30.00	1.18	8
125	315.00	12.40	250.00	9.84	44.00	1.73	33.00	1.3	8
150	355.00	13.98	290.00	11.42	50.00	1.97	33.00	1.3	12
200	430.00	16.93	360.00	14.17	60.00	2.36	36.00	1.42	12
250	515.00	20.28	430.00	16.93	68.00	2.68	42.00	1.65	12
300	585.00	23.03	500.00	19.69	78.00	3.07	42.00	1.65	16

Flange dimensions

ANSI B16.5

DIN EN1092 | DIN PN250

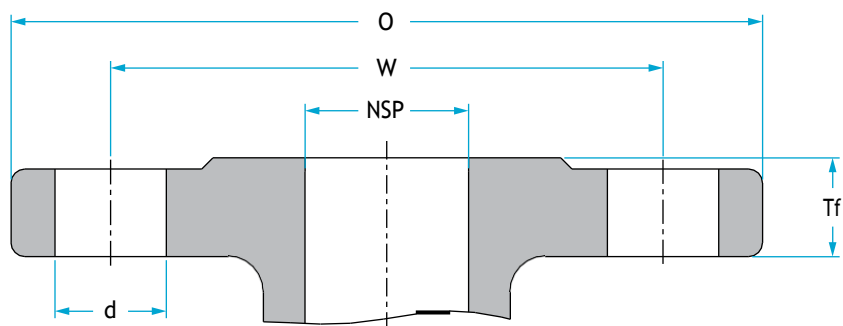


NPS Nominal Pipe Size	O		W		Tf		d		Number holes
	mm	inch	mm	inch	mm	inch	mm	inch	
10	125.00	4.92	85.00	3.35	-	-	18.00	0.71	4
15	130.00	5.12	90.00	3.54	26.00	1.02	18.00	0.71	4
25	150.00	5.91	105.00	4.13	28.00	1.10	22.00	0.87	4
40	185.00	7.28	135.00	5.31	34.00	1.34	26.00	1.02	4
50	200.00	7.87	150.00	5.91	38.00	1.50	26.00	1.02	8
65	230.00	9.06	180.00	7.09	42.00	1.65	26.00	1.02	8
80	255.00	10.04	200.00	7.87	46.00	1.81	30.00	1.18	8
100	300.00	11.81	235.00	9.25	54.00	2.13	33.00	1.3	8
125	340.00	13.39	275.00	10.83	60.00	2.36	33.00	1.3	12
150	390.00	15.35	320.00	12.60	68.00	2.68	36.00	1.42	12
200	485.00	19.09	400.00	15.75	82.00	3.23	42.00	1.65	12
250	585.00	23.03	490.00	19.29	100.00	3.94	48.00	1.89	16
300	690.00	27.17	590.00	23.23	-	-	52.00	2.05	16

Flange dimensions

ANSI B16.5

DIN EN1092 | DIN PN320

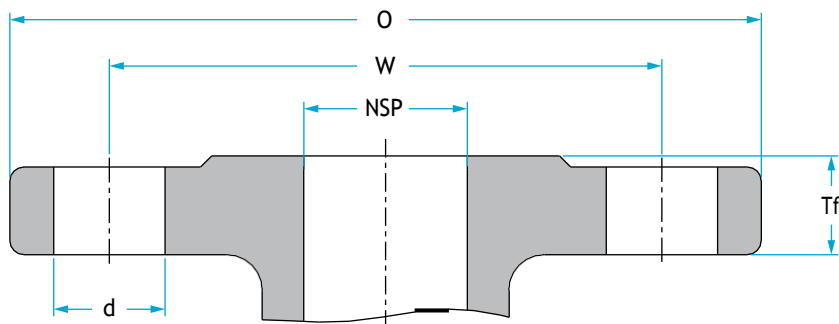


NPS Nominal Pipe Size	O		W		Tf		d		Number holes
	mm	inch	mm	inch	mm	inch	mm	inch	
10	125.00	4.92	85.00	3.35	24.00	0.94	18.00	0.71	4
15	130.00	5.12	90.00	3.54	26.00	1.02	18.00	0.71	4
25	160.00	6.30	115.00	4.53	34.00	1.34	22.00	0.87	4
40	195.00	7.68	145.00	5.71	38.00	1.50	26.00	1.02	4
50	210.00	8.27	160.00	6.30	42.00	1.65	26.00	1.02	8
65	255.00	10.04	200.00	7.87	51.00	2.01	30.00	1.18	8
80	275.00	10.83	220.00	8.66	55.00	2.17	30.00	1 ¹ / ₁₆	8
100	335.00	13.19	265.00	10.43	65.00	2.56	36.00	1.42	8
125	380.00	14.96	310.00	12.20	75.00	2.95	36.00	1.42	12
150	425.00	16.73	350.00	13.78	84.00	3.31	39.00	1.54	12
200	525.00	20.67	440.00	17.32	103.00	4.06	42.00	1.65	16
250	640.00	25.20	540.00	21.26	125.00	4.92	52.00	2.05	16

Flange dimensions

ANSI B16.5

DIN EN1092 | DIN PN400



NPS Nominal Pipe Size	O		W		Tf		d		Number holes
	mm	inch	mm	inch	mm	inch	mm	inch	
10	125.00	4.92	85.00	3.35	28.00	1.10	18.00	0.71	4
15	145.00	5.71	100.00	3.94	30.00	1.18	22.00	0.87	4
25	180.00	7.09	130.00	5.12	38.00	1.50	26.00	1.02	4
40	220.00	8.66	165.00	6.50	48.00	1.89	30.00	1.18	4
50	235.00	9.25	180.00	7.09	52.00	2.05	30.00	1.18	8
65	290.00	11.42	225.00	8.86	64.00	2.52	33.00	1.3	8
80	305.00	12.01	240.00	9.45	68.00	2.68	33.00	1.3	8
100	370.00	14.57	295.00	11.61	80.00	3.15	39.00	1.54	8
125	415.00	16.34	340.00	13.39	92.00	3.62	39.00	1.54	12
150	475.00	18.70	390.00	15.35	105.00	4.13	42.00	1.65	12
200	585.00	23.03	490.00	19.29	130.00	5.12	48.00	1.89	16

Industries we serve:

- Pipeline engineering
- Oil & gas – upstream & downstream
- Mechanical & plant engineering
- Ship building
- Boiler and Pressure Vessels
- Fertilizer industry
- Waste water
- Chemical & petrochemical
- Power industries (nuclear, natural gas, wind, solar)
- Aerospace
- Food processing

Our Capability:

Dimensional specifications with size range

Specification	Item description	Size Range	Pressure Class
ASME – B16.5	Slip on flange, Welding neck flange, Blind flange, Threaded flange, Lap joint flange, RTJ flange	½” to 24” ½” to 12”	150, 300, 400, 600, 900, 1500, 2500
ASME – B 16.47	Welding neck flange, Blind flange	26” to 40” (A-MSS) 26” to 30” (A-MSS) 26” to 36” (B-API) 26” to 32” (A-MSS)	150, 300, 400, 600, 900, 75, 150, 300, 400, 600 900
ASME – B 16.36	Welding neck flange Slip on flange, Threaded Flange	1” to 24” 1” to 12”	300, 400, 600, 900, 1500, 2500
DIN FLANGE	DIN2512, DIN2513, DIN 2514, DIN2527, DIN 2566, DIN2573, DIN2576, DIN2627, DIN2628, DIN2629, DIN2631, DIN2632, DIN2633, DIN2434, DIN2635, DIN2637, DIN2628, DIN2641, DIN2642, DIN2655, DIN2656, DIN2673	10 to 1000	PN6 to PN 320
Pr EN 1092 – 1	Plate flange (01) Loose plate flange (02,04) / Blind flange (05) Welding neck flange (11) / Hubbed slip on flange (12) Hubbed threaded flange (13) / Integral flange (21), weld-on collar (32) Lapped pipe end (33) Weldneck collar (34)	10 to 1000	ISO-PN2.5 to PN100
EN 1759 – 1	Plate flange (01)/ blind flange (05) Welding neck flange (11)/Hubbed slip on flange (12) Hubbed threaded flange (13)/Hubbed socket weld (14) Loose Hubbed flange (15) Integral flange (21)	½” to 24” (15 to 600)	150, 300, 400, 600, 900, 1500 2500 (12”)

Specification	Item Description	Size Range	Pressure Class
AFNOR NEF 29-203	Plate flange (01)/Loose plate flange (02,04)/ Blind flange (05) Welding neck flange (11)/ Hubbed slip on flange (12) Screwed flange (13) Hubbed socket Welding (14) Loose Hubbed (15)/Integral flange(21)	10 to 600	ISO-PN2.5 to PN420
JIS B2220/B2291	Slipon plate flange (SOP), Slipon Hub (SOH), Socket Welding flange (SW), Welding neck flange (WN), Lapjoint (LJ), Threaded flange (TR)/ Integral flange (IT) Blank flange (BL)	10 to 600	5K, 10K, 15K, 20K, 30K
BS4504 SECTION 3.1	Welding neck (111)/slipon plate (101)/screwed boss (113)/slipon boss (112)/blind plate flange (105)	0.375" To 36"	PN2.5 to PN40
BS4504 PART 1	Welding neck (2), Plate slipon (30), Screwed boss (4), Slipon boss (5), Blind plate flange (8)	0.375" to 36"	PN2.5 to PN 400
BS 1560 SECTION 3.1	Welding neck (111), Socket Weld (114), Screwed Boss (113), Slip on Boss (112), Blind flange (105), Lapped flange (115)	½" to 24"	150 LBS to 2500 LBS
BS 10: 1962	Welding neck, Plate Slipon, Screwed Boss, Slipon Boss, Plate Blind flange	½" to 36"	TABLE D/E/F/H
SABS/SANS 1123	Integral (1), welding neck (2), Plate for welding (3), Screwed Boss (4), Slip-on Boss (5) Plate Blank (8)	10 to 1000	250, 600, 1000, 1600, 2500, 4000 kPa
AWWA C228	Ring type slipon flanges, blind flanges	2" to 40"	SA (50Psi), SB (86Psi), SD (150/75Psi), SE (275Psi), SFPsi)
Italian standard UNI FLANGES	Plan flanges (2276, 2277, 2278, 6083, 6084) Welding neck (2280, 2281, 2282, 2283, 2284, 2285, 2286) Lapped flanges (6088, 6089, 6090, 2999, 2300) Blind flanges (6091, 6092, 6093, 6094, 6095, 6096, 6097) threaded flanges (2253, 2254)	15 to 200	PN 6 to PN 40
Norwegian Standard (NS)	Blind flanges, Plain welding flanges	150 to 800	PN 6 to PN 40
Flanges to VSM (Swiss) Standards	Flat flange for welding (18695, 19696, 18697) Weld neck (18716, 18718), blind flange (18703)		PN 6 to PN 16

Specification	Item Description	Size Range	Pressure Class
AS 4087	Blank, Plate, Screwed, weld neck (W.N/	50 to 1000	PN16, PN21, PN35,
AS 2129	W.O.N), Integral flange Blank, Plate, Boss, weld neck, Integral flange	15 to 1000	TABLE D & E
GOST	Plate flange (GOST 12820-80), Weld neck flange GOST 12821-80, Blind flange (GOST 12836-67)	10 to 1000	0.6MPa to 6.3 MPa
ASME/ANSI B 16.9 MASS SP-43	STUB END – TYPE A,B,C (Short pattern)	½” to 24”	All Schedules

Grades:

ASTM182/182M ASME SA182/182M ASTM A403/403M	F 304, F304L, F304H, F310, F316, F316L, F316H, F347, F347H, F317, F317L, F321, F321H, F316Ti, F347, F347H, F51, F60 & F53
JIS G3214	SUS F304, SUS F304L, SUS F304H, SUS F316, SUS F316L, SUS F316H, SUS F347, SUS F347H, SUS F317, SUS F317L, SUS F321, SUS F321H
NF E29 – 204 (AFNOR)	BF Z7 CN 18-09 (F304), BF Z3 CN 19-09 (304LO), BF Z7 CND 17.11.02 (F316), BF Z3 CND 17.11.02 (F316L), BF Z6 CNDT 17-12 (316 Ti), BF Z6 CN Nb 18-10 (F347), BF Z6 CNT 18-10 (F321)
DIN 10222-5	1.4301, 1.4306, 1.4307, 1.4541, 1.4571, 1.4401, 1.4404, 1.4410, 1.4438, 1.4450, 1.4462
OTHER PRODUCTS	Long welding neck, Plate flanges (Light weight pattern), Backup flanges (BEV & STD), Beveled ID flanges, Reducing flanges, Case-end

Flanges bore schedules:

S5S, S10, S10S, S20, S30, S40, S40S, S60, S80, S80S, S100, S120, S140, S160, STD, XS, XXS

Flange facing types:

Flat face, Raised face, Large Raised face, Ring joint, Tongue & Groove face (large & small), Male-Female face

Flange face finish:

Stock Finish serration, Spiral or Phonographic Serration, concentric Serration, Smooth Finish

Supportive Testing:

- Tensile testing machine (screw driven & Computerized)
- Impact testing machine (RT & Sub zero)
- Hardness testing machine
- Microscope (Image analyzer with color view camera, motorized stage & inclusion inspector)
- Mobile spectrometer for PMI test : X-ray fluorescence test-gun & OES-Optical Emission Spectrometry
- Surface roughness tester
- IGC test facilities
- Dye penetrate test
- Ultrasonic testing machine
- Radiation servo meter
 - Dynamic radiation detection system with weight-bridge portal monitors
 - Gamma ray spectroscopy – identifies nuclides & quantifies contamination
 - Portable radiation detection servo meters

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- Threaded Pipe Fittings
- Pipes
- Tubes
- Hose / Couplings Adapter
- Flanges
- Gasket / O-Rings
- Pressure / Vacuum Gauges
- Custom Design Fittings
- Valves