



Premier Manufacturer of ASME Standard Pipe Flanges

ASME FLANGES

Technical Data Sheets



FEATURING

ASME B16.47 Flanges

ASME B16.47 Large Diameter Flanges

ASME Pressure Class Options (150# to 900#)

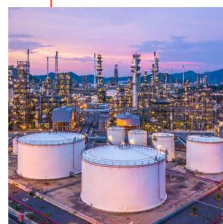
ASME Flange Materials (Carbon Steel, Stainless Steel, Alloy Steel, Nickel Alloys)

ASME-Compliant Manufacturing Process

ASME FLANGE APPLICATIONS



Oil & Gas
Processing



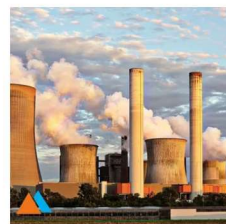
Petrochemical
Production



Industrial Piping
Systems



Chemical
Processing



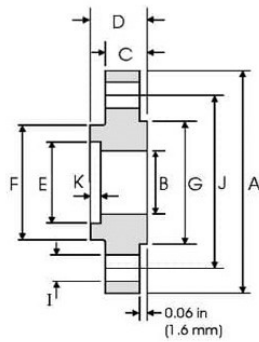
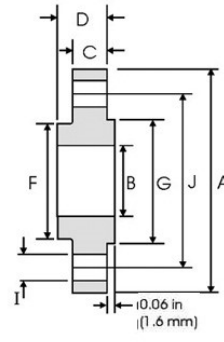
Power
Generation

ASME CERTIFIED | PRECISION ENGINEERED | INDUSTRY TRUSTED

For detailed ASME Flange
specifications & custom solutions:

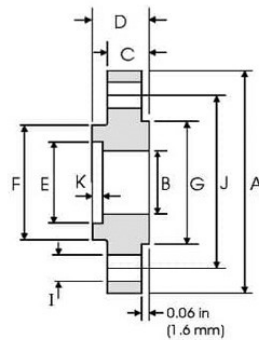
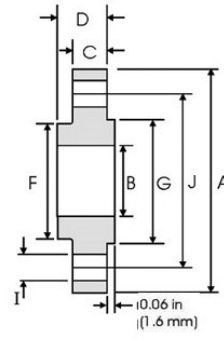
Visit: <https://wernerflanges.com> | Contact: sales@wernerflanges.com

ASME B16.47 Series A (Class 150 lb) Flanges


WELD NECK

BLIND

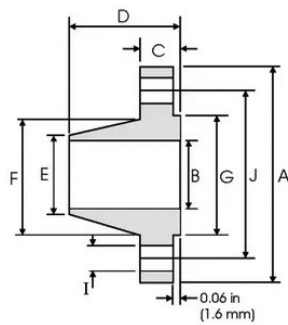
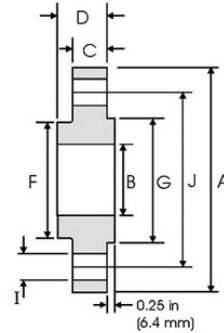
NPS	Flange Data				Hub Data		Raised Face	Drilling Data			Radius
	A	C		D	E	F	G	H	I	J	R
	Overall Dia.	WNF Flange Thickness	Blind Flange Thickness	Overall Length WNF	Dia. at Weld Bevel	Hub Dia.	Face Dia.	Number of Holes	Bolt Hole Dia.	Dia. of Circle of Holes	Fillet
	in mm	in mm	in mm	in mm	in mm	in mm	in mm		in mm	in mm	in mm
22	29.50 749.30	1.81 45.97	1.81 45.97	5.88 149.35	22.00 558.80	24.00 609.60	25.25 641.35	20	1.38 35.05	27.25 692.15	0.38 9.65
26	34.25 869.95	2.69 68.33	2.69 68.33	4.75 120.65	26.00 660.40	26.62 676.15	29.50 749.30	24	1.38 35.05	31.75 806.45	0.38 9.65
28	36.50 927.10	2.81 71.37	2.81 71.37	4.94 125.48	28.00 711.20	28.62 726.95	31.50 800.10	28	1.38 35.05	34.00 863.60	0.44 11.18
30	38.75 984.25	2.94 74.68	2.94 74.68	5.38 136.65	30.00 762.00	30.75 781.05	33.75 857.25	28	1.38 35.05	36.00 914.40	0.44 11.18
32	41.75 1060.5	3.19 81.03	3.19 81.03	5.69 144.53	32.00 812.80	32.75 831.85	36.00 914.40	28	1.62 41.15	38.50 977.90	0.44 11.18
34	43.75 1111.3	3.25 82.55	3.25 82.55	5.88 149.35	34.00 863.60	34.75 882.65	38.00 965.20	32	1.62 41.15	40.50 1028.7	0.50 12.70
36	46.00 1168.4	3.56 90.42	3.56 90.42	6.19 157.23	36.00 914.40	36.75 933.45	40.25 1022.4	32	1.62 41.15	42.75 1085.9	0.50 12.70
38	48.75 1238.3	3.44 87.38	3.44 87.38	6.19 157.23	38.00 965.20	39.00 990.60	42.25 1073.2	32	1.62 41.15	45.25 1149.4	0.50 12.70
40	50.75 1289.1	3.56 90.42	3.56 90.42	6.44 163.58	40.00 1016.0	41.00 1041.4	44.25 1124.0	36	1.62 41.15	47.25 1200.2	0.50 12.70
42	53.00 1346.2	3.81 96.77	3.81 96.77	6.75 171.45	42.00 1066.8	43.00 1092.2	47.00 1193.8	36	1.62 41.15	49.50 1257.3	0.50 12.70
44	55.25 1403.4	4.00 101.60	4.00 101.60	7.00 177.80	44.00 1117.6	45.00 1143.0	49.00 1244.6	40	1.62 41.15	51.75 1314.5	0.50 12.70
46	57.25 1454.2	4.06 103.12	4.06 103.12	7.31 185.67	46.00 1168.4	47.12 1196.9	51.00 1295.4	40	1.62 41.15	53.75 1365.3	0.50 12.70
48	59.50 1511.3	4.25 107.95	4.25 107.95	7.56 192.02	48.00 1219.2	49.12 1247.7	53.50 1358.9	44	1.62 41.15	56.00 1422.4	0.50 12.70

ASME B16.47 Series A (Class 300 lb) Flanges


WELD NECK

BLIND

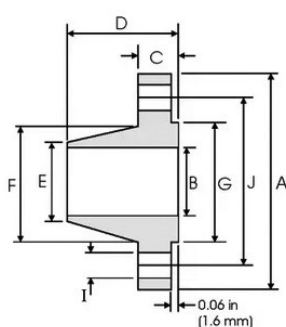
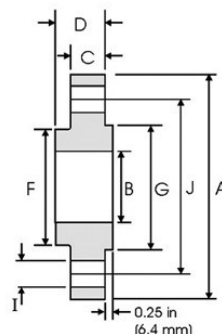
NPS	Flange Data				Hub Data		Raised Face	Drilling Data			Radius
	A	C		D	E	F	G	H	I	J	R
	Overall Dia.	WNF Flange Thickness	Blind Flange Thickness	Overall Length WNF	Dia. at Weld Bevel	Hub Dia.	Face Dia.	Number of Holes	Bolt Hole Dia.	Dia. of Circle of Holes	Fillet
	in mm	in mm	in mm	in mm	in mm	in mm	in mm		in mm	in mm	in mm
22	33.00 838.20	2.62 66.55	2.62 66.55	6.50 165.10	22.00 558.80	25.25 641.35	25.25 641.35	24	1.62 41.15	29.25 742.95	0.38 9.65
26	38.25 971.55	3.12 79.25	3.31 84.07	7.25 184.15	26.00 660.40	28.38 720.85	29.50 749.30	28	1.75 44.45	34.50 876.30	0.38 9.65
28	40.75 1035.1	3.38 85.85	3.56 90.42	7.75 196.85	28.00 711.20	30.50 774.70	31.50 800.10	28	1.75 44.45	37.00 939.80	0.44 11.18
30	43.00 1092.2	3.62 91.95	3.75 95.25	8.25 209.55	30.00 762.00	32.56 827.02	33.75 857.25	28	1.88 47.75	39.25 996.95	0.44 11.18
32	45.25 1149.4	3.88 98.55	3.94 100.08	8.75 222.25	32.00 812.80	34.69 881.13	36.00 914.40	28	2.00 50.80	41.50 1054.1	0.44 11.18
34	47.50 120.50	4.00 101.60	4.12 104.65	9.12 231.65	34.00 863.60	36.88 936.75	38.00 965.20	28	2.00 50.80	43.50 1104.9	0.50 12.70
36	50.00 1270.0	4.12 104.65	4.38 111.25	9.50 241.30	36.00 914.40	39.00 990.60	40.25 1022.4	32	2.12 53.85	46.00 1168.4	0.50 12.70
38	46.00 1168.4	4.25 107.95	4.25 107.95	7.12 180.85	38.00 965.20	39.12 993.65	40.50 1028.7	32	1.62 41.15	43.00 1092.2	0.50 12.70
40	48.75 1238.3	4.50 114.30	4.50 114.30	7.62 193.55	40.00 1016.0	41.25 1047.8	42.75 1085.9	32	1.75 44.45	45.50 1155.7	0.50 12.70
42	50.75 1289.1	4.69 119.13	4.69 119.13	7.88 200.15	42.00 1066.8	43.25 1098.6	44.75 1136.7	32	1.75 44.45	47.50 1206.6	0.50 12.70
44	53.25 1352.6	4.88 123.95	4.88 123.95	8.12 206.25	44.00 1117.6	45.25 1149.4	47.00 1193.8	32	1.88 47.75	49.75 1263.7	0.50 12.70
46	55.75 1416.1	5.06 128.52	5.06 128.52	8.50 215.90	46.00 1168.4	47.38 1203.5	49.00 1244.0	28	2.00 50.80	52.00 1320.8	0.50 12.70
48	57.75 1466.9	5.25 133.35	5.25 133.35	8.81 223.77	48.00 1219.2	49.38 1254.3	51.25 1301.8	32	2.00 50.80	54.00 1371.6	0.50 12.70

ASME B16.47 Series A (Class 400 lb) Flanges


WELD NECK

BLIND

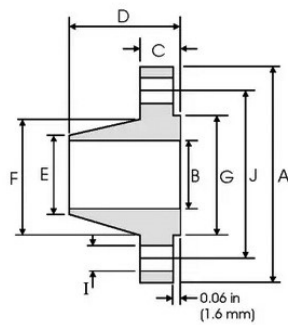
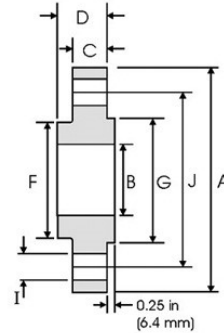
NPS	Flange Data				Hub Data		Raised Face	Drilling Data			Radius
	A	C		D	E	F	G	H	I	J	R
	Overall Dia.	WNF Flange Thickness	Blind Flange Thickness	Overall Length WNF	Dia. at Weld Bevel	Hub Dia.	Face Dia.r	Number of Holes	Bolt Hole Dia.	Dia. of Circle of Holes	Fillet
	in mm	in mm	in mm	in mm	in mm	in mm	in mm		in mm	in mm	in mm
22	33.00	2.88	2.88	6.75	22.00	25.25	25.25	24	1.75	29.25	0.44
	838.20	73.15	73.15	171.45	558.80	641.35	641.35		44.45	742.95	11.18
26	38.25	3.50	3.88	7.62	26.00	28.62	29.50	28	1.88	34.50	0.44
	971.55	88.90	98.55	193.55	660.40	726.95	749.30		47.75	876.30	11.18
28	40.75	3.75	4.12	8.12	28.00	30.81	31.50	28	2.00	37.00	0.50
	1035.1	95.25	104.65	206.25	711.20	782.57	800.10		50.80	939.80	12.70
30	43.00	4.00	4.38	8.62	30.00	32.94	33.75	28	2.12	39.25	0.50
	1092.2	101.60	111.25	218.95	762.00	836.68	857.25		53.85	996.95	12.70
32	45.25	4.25	4.56	9.12	32.00	35.00	36.00	28	2.12	41.50	0.50
	1149.4	107.95	115.82	231.65	812.80	889.00	914.40		53.85	1054.1	12.70
34	47.50	4.38	4.81	9.50	34.00	37.19	38.00	28	2.12	43.50	0.56
	1206.5	111.25	122.17	241.30	863.60	944.63	965.20		53.85	1104.9	14.22
36	50.00	4.50	5.06	9.88	36.00	39.38	40.25	32	2.12	46.00	0.56
	1270.0	114.30	128.52	250.95	914.40	1000.3	1022.4		53.85	1168.4	14.22
38	47.50	4.88	4.88	8.12	48.00	39.50	40.75	32	1.88	44.00	0.56
	1206.5	123.95	123.95	206.25	1219.2	1003.3	1035.1		47.75	1117.6	14.22
40	50.00	5.12	5.12	8.50	40.00	41.50	43.00	32	2.00	46.25	0.56
	1270.0	130.05	130.05	215.90	1016.0	1054.1	1092.2		50.80	1174.8	14.22
42	52.00	5.25	5.25	8.81	42.00	43.62	45.00	32	2.00	48.25	0.56
	1320.8	133.35	133.35	223.77	1066.8	1107.9	1143.0		50.80	1225.6	14.22
44	54.50	5.50	5.50	9.18	44.00	45.62	47.25	32	2.12	50.50	0.56
	1384.3	139.70	139.70	233.17	1117.6	1158.7	1200.2		53.85	1282.7	14.22
46	56.75	5.75	5.75	9.62	46.00	47.75	49.50	36	2.12	52.75	0.56
	1441.5	146.05	146.05	244.35	1168.4	1212.9	1257.3		53.85	1339.9	14.22
48	59.50	6.00	6.00	10.12	48.00	49.88	51.50	28	2.38	55.25	0.56
	1511.3	152.40	152.40	257.05	1219.2	1267.0	1308.1		60.45	1403.4	14.22

ASME B16.47 Series A (Class 600 lb) Flanges


WELD NECK

BLIND

NPS	Flange Data			Hub Data			Raised Face	Drilling Data			Radius
	A	C		D	E	F	G	H	I	J	R
	Overall Dia.	WNF Flange Thickness	Blind Flange Thickness	Overall Length WNF	Dia. at Weld Bevel	Hub Dia.	Face Dia.	Number of Holes	Bolt Hole Dia.	Dia. of Circle of Holes	Fillet
	in mm	in mm	in mm	in mm	in mm	in mm	in mm		in mm	in mm	in mm
22	34.25	3.75	3.75	7.75	22.00	26.25	25.25	24	1.88	30.62	0.44
	869.95	95.25	95.25	196.85	558.80	666.75	641.35		47.75	777.75	11.18
26	40.00	4.25	4.94	8.75	26.00	29.44	29.50	28	2.00	36.00	0.50
	1016.0	107.95	125.48	222.25	660.40	747.78	749.30		50.80	914.40	12.70
28	42.25	4.38	5.19	9.25	28.00	31.62	31.50	28	2.12	38.00	0.50
	1073.2	111.25	131.83	234.95	711.20	803.15	800.10		53.85	965.20	12.70
30	44.50	4.50	5.50	9.75	30.00	33.94	33.75	28	2.12	40.25	0.50
	1130.3	114.30	139.70	247.65	762.00	862.08	857.25		53.85	1022.4	12.70
32	47.00	4.62	5.81	10.25	32.00	36.12	36.00	28	2.38	42.50	0.50
	1193.8	117.35	147.57	260.35	812.80	917.45	914.40		60.45	1079.5	12.70
34	49.00	4.75	6.06	10.62	34.00	38.31	38.00	28	2.38	44.50	0.56
	1244.6	120.65	153.92	269.75	863.60	973.07	965.20		60.45	1130.3	14.22
36	51.75	4.88	6.38	11.12	36.00	40.62	40.25	28	2.62	47.00	0.56
	1314.5	123.95	162.05	282.45	914.40	1031.75	1022.35		66.55	1193.0	14.22
38	50.00	6.00	6.12	10.00	38.00	40.25	41.50	28	2.38	45.75	0.56
	1270.0	152.40	155.45	254.00	965.20	1022.35	1054.10		60.45	1162.1	14.22
40	52.00	6.25	6.38	10.38	40.00	42.25	43.75	32	2.38	47.75	0.56
	1320.8	158.75	162.05	263.65	1016.0	1073.2	1111.3		60.45	1212.9	14.22
42	55.25	6.62	6.75	11.00	42.00	44.38	46.00	28	2.62	50.50	0.56
	1403.4	168.15	171.45	279.40	1066.8	1127.3	1168.4		66.55	1282.7	14.22
44	57.25	6.81	7.00	11.38	44.00	46.50	48.25	32	2.62	52.50	0.56
	1454.2	172.97	177.80	289.05	1117.6	1181.1	1225.6		66.55	1333.5	14.22
46	59.50	7.06	7.31	11.81	46.00	48.62	50.25	32	2.62	54.75	0.56
	1511.3	179.32	185.67	299.97	1168.4	1235.0	1276.4		66.55	1390.7	14.22
48	62.75	7.44	7.69	12.44	48.00	50.75	52.50	32	2.88	57.50	0.56
	1593.9	188.98	195.33	315.98	1219.2	1289.1	1333.5		73.15	1460.5	14.22

ASME B16.47 Series A (Class 900 lb) Flanges

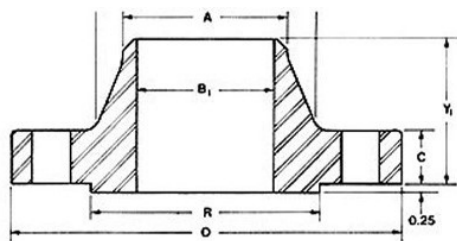
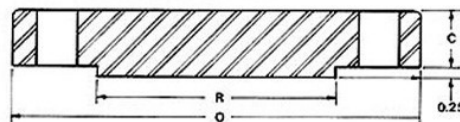

WELD NECK

BLIND

NPS	Flange Data				Hub Data		Raised Face	Drilling Data			Radius
	A	C		D	E	F	G	H	I	J	R
	Overall Diameter	WNF Flange Thickness	Blind Flange Thickness	Overall Length WNF	Diameter at Weld Bevel	Hub Diameter	Face Diameter	Number of Holes	Bolt Hole Diameter	Diameter of Circle of Holes	Fillet
	in mm	in mm	in mm	in mm	in mm	in mm	in mm		in mm	in mm	in mm
26	42.75 1085.9	5.50 139.70	6.31 160.27	11.25 285.75	26.00 660.40	30.50 774.70	29.50 749.30	20	2.88 73.15	37.50 952.50	0.44 11.18
28	46.00 1168.4	5.62 142.75	6.75 171.45	11.75 298.45	28.00 711.20	32.75 831.85	31.50 800.10	20	3.12 79.25	40.25 1022.4	0.50 12.70
30	48.50 1231.9	5.88 149.35	7.18 182.37	12.25 311.15	30.00 762.00	35.00 889.00	33.75 857.25	20	3.12 79.25	42.75 1085.9	0.50 12.70
32	51.75 1314.5	6.25 158.75	7.62 193.55	13.00 330.20	32.00 812.80	37.25 946.15	36.00 914.40	20	3.38 85.85	45.50 1155.7	0.50 12.70
34	55.00 1397.0	6.50 165.10	8.06 204.72	13.75 349.25	34.00 863.60	39.62 1006.4	38.00 965.20	20	3.62 91.95	48.25 1225.6	0.56 14.22
36	57.50 1460.5	6.75 171.45	8.44 214.38	14.25 361.95	36.00 914.40	41.88 1063.8	40.25 1022.4	20	3.62 91.95	50.75 1289.1	0.56 14.22
38	57.50 1460.5	7.50 190.50	8.50 215.90	13.88 352.55	38.00 965.20	42.25 1073.2	43.25 1098.6	20	3.62 91.95	50.75 1289.1	0.75 19.05
40	59.50 1511.3	7.75 196.85	8.81 223.77	14.31 363.47	40.00 1016.0	44.38 1127.3	45.75 1162.1	24	3.62 91.95	52.75 1339.9	0.81 20.57
42	61.50 1562.1	8.12 206.25	9.12 231.65	14.62 371.35	42.00 1066.8	46.31 1176.3	47.75 1212.9	24	3.62 91.95	54.75 1390.7	0.81 20.57
44	64.88 1648.0	8.44 214.38	9.56 242.82	15.38 390.65	44.00 1117.6	48.62 1235.0	50.00 1270.0	24	3.88 98.55	57.62 1463.6	0.88 22.35
46	68.25 1733.6	8.88 225.55	10.06 255.52	16.18 410.97	46.00 1168.4	50.88 1292.4	52.50 1333.5	24	4.12 104.65	60.50 1536.7	0.88 22.35
48	70.25 1784.4	9.19 233.43	10.38 263.65	16.50 419.10	48.00 1219.2	52.88 1343.2	54.50 1384.3	24	4.12 104.65	62.50 1587.5	0.94 23.88

NOTE

- ASME B16.47 Series A flanges ($\geq$ NPS 26) are MSS SP-44 flanges. MSS SP-44 also covers NPS 12 to NPS 24 flanges which are equivalent to ASME B16.5. MSS SP-44 is the only source for the NPS 22 flange dimensions above
- Series A dimensions at NPS 38 and larger also apply to Series B flanges.
- Flat face flanges may be provided at full thickness, C + raised face, or with raised face removed (the latter is nonstandard).
- WNF = Weld Neck Flange.
- The large end of the hub may be straight or tapered.

ASME B16.47 Series B (Class 75 lb) Flanges

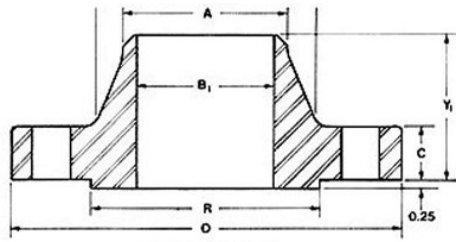
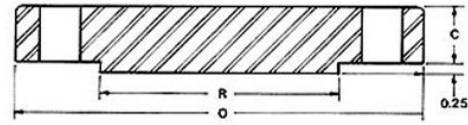

WELD NECK

BLIND

Nominal Pipe Size	O.D. OF Flange	Thickness		Length Through Hub	Diam.of Hub at Base	Hub Diam. Top	Rasied Face Diam.	Drilling			Diam.of Bolt (inch)	Fillet Radius Min.
		W.N.F	Blind					Diam.of Bolt Circle	No. of Bolt Holes	Diam. of Bolt Holes		r1
		O	C									
26	762.0	33.3	33.3	58.7	676.1	661.9	704.9	723.9	36	19.1	5/8	7.9
28	812.8	33.3	33.3	62.0	726.9	712.7	755.7	774.7	40	19.1	5/8	7.9
30	863.6	33.3	33.3	65.0	777.7	763.5	806.5	825.5	44	19.1	5/8	7.9
32	914.4	35.1	36.6	69.9	828.5	814.3	857.3	876.3	48	19.1	5/8	7.9
34	965.2	35.1	38.1	73.2	879.3	865.1	908.1	927.1	52	19.1	5/8	7.9
36	1033.5	36.6	42.4	85.8	935.0	915.9	965.2	992.1	40	22.4	3/4	9.7
38	1084.3	38.1	44.5	88.9	985.8	966.7	1016.0	1042.9	40	22.4	3/4	9.7
40	1135.1	38.1	44.5	91.9	1036.6	1017.5	1066.8	1093.7	44	22.4	3/4	9.7
42	1185.9	39.6	47.8	95.3	1087.4	1068.3	1117.6	1144.5	48	22.4	3/4	9.7
44	1251.0	42.9	49.3	104.6	1140.0	1119.1	1174.8	1203.5	36	25.4	7/8	9.7
46	1301.8	44.5	50.8	108.0	1190.8	1169.9	1225.6	1254.3	40	25.4	7/8	9.7
48	1352.6	46.0	53.8	111.3	1241.6	1220.7	1276.4	1305.1	44	25.4	7/8	9.7
50	1403.4	47.8	55.4	115.8	1293.9	1271.5	1327.2	1355.9	44	25.4	7/8	9.7
52	1457.5	47.8	57.2	120.7	1344.7	1322.3	1378.0	1409.7	48	25.4	7/8	9.7
54	1508.3	49.3	60.5	125.5	1397.0	1373.1	1428.8	1460.5	48	25.4	7/8	9.7
56	1574.8	50.8	62.0	134.9	1450.8	1423.9	1485.9	1521.0	40	28.4	1	11.2
58	1625.6	52.3	63.5	138.2	1501.6	1474.7	1536.7	1571.8	44	28.4	1	11.2
60	1676.4	55.6	66.5	144.5	1552.4	1525.5	1587.5	1622.6	44	28.4	1	11.2

NOTES

- Bore size to be specified by customer.
- When these flanges are required with flat face removed may be furnished.
- Users are reminded that removing the raised face will make the length through hub nonstandard.

ASME B16.47 Series B (Class 150 lb) Flanges

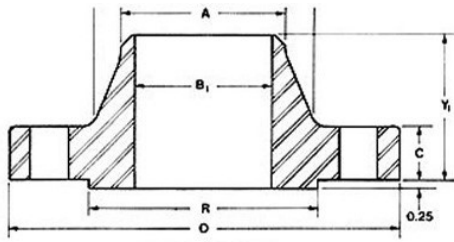
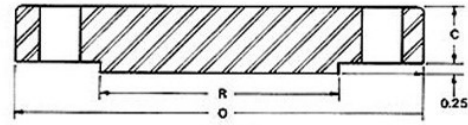

WELD NECK

BLIND

Nominal Pipe Size	O.D. OF Flange	Thickness		Length Throug h Hub	Diam. of Hub at Base	Hub Diam. Top	Rasied Face Diam.	Drilling			Diam. of Bolt (inch)	Fillet Radius Min.
		W.N.F	Blind					Diam. of Bolt Circle	No. of Bolt Holes	Diam. of Bolt Holes		
	O	C	C	Y	X	A	R					r1
26	785.9	41.1	44.5	88.9	684.3	661.9	711.2	744.5	36	22.4	3/4	9.7
28	836.7	44.5	47.8	95.3	735.1	712.7	762.0	795.3	40	22.4	3/4	9.7
30	887.5	44.5	50.8	100.1	787.4	763.5	812.8	846.1	44	22.4	3/4	9.7
32	941.3	46.0	53.8	108.0	839.7	814.3	863.6	900.2	48	22.4	3/4	9.7
34	1004.8	49.3	57.2	110.2	892.0	865.1	920.8	957.3	40	25.4	7/8	9.7
36	1057.1	52.3	58.7	117.3	944.6	915.9	971.6	1009.7	44	25.4	7/8	9.7
38	1124.0	53.8	63.5	124.0	997.0	968.2	1022.4	1069.8	40	28.4	1	9.7
40	1174.8	55.6	66.5	128.5	1049.3	1019.0	1079.5	1120.6	44	28.4	1	9.7
42	1225.6	58.7	68.3	133.4	1101.9	1069.8	1130.3	1171.4	48	28.4	1	11.2
44	1276.4	60.5	71.4	136.7	1152.7	1120.6	1181.1	1222.2	52	28.4	1	11.2
46	1341.4	62.0	74.7	144.5	1205.0	1171.4	1234.9	1284.2	40	31.8	11/8	11.2
48	1392.2	65.0	77.7	149.4	1257.3	1222.2	1289.1	1335.0	44	31.8	11/8	11.2
50	1443.0	68.3	80.8	153.9	1308.1	1273.0	1339.9	1385.8	48	31.8	11/8	11.2
52	1493.8	69.9	84.1	157.2	1360.5	1323.8	1390.7	1436.6	52	31.8	11/8	11.2
54	1549.4	71.4	87.4	162.1	1412.8	1374.6	1441.5	1492.3	56	31.8	11/8	11.2
56	1600.2	73.2	90.4	166.6	1465.4	1425.4	1492.3	1543.1	60	31.8	11/8	14.2
58	1674.9	74.7	93.5	174.8	1516.2	1476.2	1543.1	1611.4	48	35.1	11/4	14.2
60	1725.9	76.2	96.8	179.3	1570.0	1527.0	1600.2	1662.2	52	35.1	11/4	14.2

NOTES

- Bore size to be specified by customer.
- When these flanges are required with flat face removed may be furnished.
- Users are reminded that removing the raised face will make the length through hub nonstandard.

ASME B16.47 Series B (Class 300 lb) Flanges

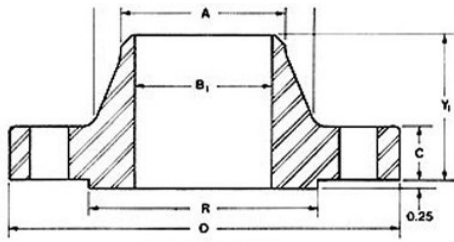
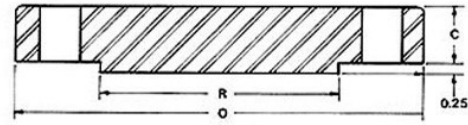

WELD NECK

BLIND

Nominal Pipe Size	O.D. OF Flange	Thickness		Length Through h Hub	Diam. of Hub at Base	Hub Diam. Top	Rasied Face Diam.	Drilling			Diam. of Bolt (inch)	Fillet Radius Min.
		W.N.F	Blind					Diam. of Bolt Circle	No. of Bolt Holes	Diam. of Bolt Holes		r1
	O	C	C	Y	X	A	R					
26	866.6	88.9	88.9	144.5	701.5	665.2	736.6	803.1	32	35.1	11/4	14.2
28	920.8	88.9	88.9	149.4	755.7	716.0	787.4	857.3	36	35.1	11/4	14.2
30	990.6	93.7	93.7	158.0	812.8	768.4	844.6	920.8	36	38.1	13/8	14.2
32	1054.1	103.1	103.1	168.1	863.6	819.2	901.7	977.9	32	41.1	11/2	15.7
34	1107.9	103.1	103.1	173.0	917.4	870.0	952.5	1031.7	36	41.1	11/2	15.7
36	1171.4	103.1	103.1	180.8	965.2	920.8	1009.7	1089.2	32	44.5	15/8	15.7
38	1222.2	111.3	111.3	192.0	1016.0	971.6	1060.5	1140.0	36	44.5	15/8	15.7
40	1273.0	115.8	115.8	198.4	1066.8	1022.4	1114.6	1190.8	40	44.5	15/8	15.7
42	1333.5	119.1	119.1	204.7	1117.6	1074.7	1168.4	1244.6	36	47.8	13/4	15.7
44	1384.3	127.0	127.0	214.4	1173.2	1125.5	1219.2	1295.4	40	47.8	13/4	15.7
46	1460.5	128.5	130.0	222.3	1228.9	1176.3	1270.0	1365.3	36	50.8	17/8	15.7
48	1511.3	128.5	134.9	223.8	1277.9	1227.1	1327.2	1416.1	40	50.8	17/8	15.7
50	1562.1	138.2	139.7	235.0	1330.5	1277.9	1378.0	1466.9	44	50.8	17/8	15.7
52	1612.9	142.7	144.3	242.8	1382.8	1328.7	1428.8	1517.7	48	50.8	17/8	15.7
54	1673.4	136.7	149.4	239.8	1435.1	1379.5	1479.6	1577.8	48	50.8	17/8	15.7
56	1765.3	153.9	157.0	268.2	1493.8	1430.3	1536.7	1651.0	36	60.5	21/4	17.5
58	1827.3	153.9	162.1	274.6	1547.9	1481.1	1593.9	1713.0	40	60.5	21/4	17.5
60	1878.1	150.9	166.6	271.5	1598.7	1531.9	1651.0	1763.8	40	60.5	21/4	17.5

NOTES

- Bore size to be specified by customer.
- When these flanges are required with flat face removed may be furnished.
- Users are reminded that removing the raised face will make the length through hub nonstandard.

ASME B16.47 Series B (Class 600 lb) Flanges

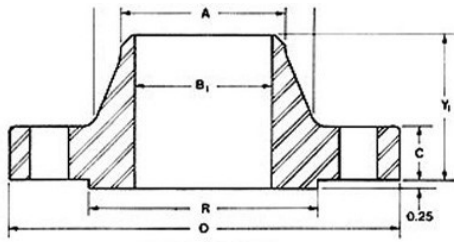
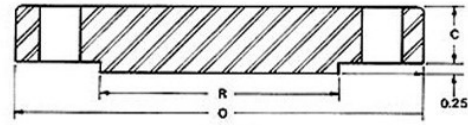

WELD NECK

BLIND

Nominal Pipe Size	O.D. OF Flange	Thickness		Length Throug h Hub	Diam. of Hub at Base	Hub Diam. Top	Rasied Face Diam.	Drilling			Diam. of Bolt (inch)	Fillet Radius Min.
		W.N.F	Blind					Diam. of Bolt Circle	No. of Bolt Holes	Diam. of Bolt Holes		
	O	C	C	Y	X	A	R					r1
26	889	111.3	111.3	180.8	698.5	660.4	726.9	806.5	28	44.5	1 5/8	12.7
28	952.5	115.8	115.8	190.5	752.3	711.2	784.4	863.6	28	47.8	1 3/4	12.7
30	1022.4	125.5	127.0	204.7	806.5	762.0	841.2	927.1	28	50.8	1 7/8	12.7
32	1085.9	130.0	134.9	215.9	860.6	812.8	895.4	984.3	28	53.8	2	12.7
34	1162.1	141.2	144.3	233.4	914.4	863.6	952.5	1054.1	24	60.5	2 1/4	14.2
36	1212.9	146.3	150.9	242.8	968.2	914.4	1009.7	1104.9	28	60.5	2 1/4	14.2
38	Size 38" thru 60" are identical to series A, Class 600 flanges.											
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NOTES

- Bore size to be specified by customer.
- When these flanges are required with flat face removed may be furnished.
- Users are reminded that removing the raised face will make the length through hub nonstandard.

ASME B16.47 Series B (Class 900 lb) Flanges


WELD NECK

BLIND

Nominal Pipe Size	O.D. OF Flange	Thickness		Length Throug h Hub	Diam. of Hub at Base	Hub Diam. Top	Rasied Face Diam.	Drilling			Diam. of Bolt (inch)	Fillet Radius Min.
		W.N.F	Blind					Diam. of Bolt Circle	No. of Bolt Holes	Diam. of Bolt Holes		
		O	C					C	Y	X		A
26	1022.4	134.9	153.9	258.8	743.0	660.4	762.0	901.7	20	66.5	2 1/2	11.2
28	1104.9	147.6	166.6	276.4	797.1	711.2	819.2	971.6	20	73.2	2 3/4	12.7
30	1181.1	155.4	176.0	289.1	850.9	762.0	876.3	1035.1	20	79.2	3	12.7
32	1238.3	160.3	185.7	303.3	908.1	812.8	927.1	1092.2	20	79.2	3	12.7
34	1314.5	171.5	195.1	319.0	962.2	863.6	990.6	1155.7	20	85.9	3 1/4	14.2
36	1346.2	173.0	201.7	325.4	1016.0	914.4	1028.7	1200.2	24	79.2	3	14.2
38	Size 38" thru 60" are identical to series A, Class 900 flanges.											
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NOTES

- Bore size to be specified by customer.
- When these flanges are required with flat face removed may be furnished.
- Users are reminded that removing the raised face will make the length through hub nonstandard.