

Bolting Data for Standard M.S.S. SP-44 Weld Neck Class Flanges

Nominal	150 PSI						
Pipe Size	Number	Bolt hole	Stud	Flange	Flange	Bolt	Grip
(inches)	of Studs		Diameter	Diameter	Thickness	Cir. Dia.	Length
26	24	1 3/8	1 1/4	870.00	68.50	806.00	140.20
28	28	1 3/8	1 1/4	925.00	71.50	863.00	146.20
30	28	1 3/8	1 1/4	985.00	74.50	914.00	152.20
32	28	1 5/8	1 1/2	1060.00	81.00	978.00	165.20
34	32	1 5/8	1 1/2	1110.00	82.50	1029.00	168.20
36	32	1 5/8	1 1/2	1170.00	90.50	1086.00	178.20
38	32	1 5/8	1 1/2	1240.00	87.50	1150.00	184.20
40	32	1 5/8	1 1/2	1290.00	90.50	1200.00	184.20
42	36	1 5/8	1 1/2	1345.00	97.00	1257.00	197.20
44	36	1 5/8	1 1/2	1405.00	102.00	1314.00	207.20
46	40	1 5/8	1 1/2	1455.00	103.00	1365.00	209.20
48	40	1 5/8	1 1/2	1510.00	108.00	1422.00	219.20
50	44	1 7/8	1 3/4	1570.00	111.00	1480.00	225.20
52	44	1 7/8	1 3/4	1625.00	116.00	1537.00	235.20
54	44	1 7/8	1 3/4	1685.00	121.00	1594.00	245.20
56	44	1 7/8	1 3/4	1745.00	124.00	1651.00	251.20
58	48	1 7/8	1 3/4	1805.00	129.00	1708.00	261.20
60	48	1 7/8	1 3/4	1854.20	131.90	1759.00	267.20

Nominal	300 PSI						
Pipe Size	Number	Bolt hole	Stud	Flange	Flange	Bolt	Grip
(inches)	of Studs		Diameter	Diameter	Thickness	Cir. Dia.	Length
26	28	1 3/4	1 5/8	970.00	79.50	876.00	160.20
28	28	1 3/4	1 5/8	1035.00	85.50	940.00	174.20
30	28	1 7/8	1 3/4	1090.00	92.00	997.00	187.20
32	28	2	1 7/8	1150.00	98.50	1054.00	200.20
34	28	2	1 7/8	1205.00	102.00	1105.00	207.20
36	32	2 1/8	2	1270.00	105.00	1168.00	213.20
38	32	1 5/8	1 1/2	1170.00	108.00	1092.00	219.20
40	32	1 3/4	1 5/8	1240.00	114.00	1156.00	231.20
42	32	1 3/4	1 5/8	1290.00	119.00	1206.00	241.20
44	32	1 7/8	1 3/4	1355.00	124.00	1264.00	251.20
46	28	2	1 7/8	1415.00	129.00	1321.00	261.20
48	32	2	1 7/8	1465.00	133.00	1372.00	269.20
50	32	2 1/8	2	1530.00	140.00	1429.00	283.20
52	32	2 1/8	2	1580.00	144.00	1480.00	291.20
54	28	2 3/8	2 1/4	1660.00	152.00	1549.00	307.20
56	28	2 3/8	2 1/4	1710.00	154.00	1600.00	311.20
58	32	2 3/8	2 1/4	1760.00	159.00	1651.00	321.20
60	28	2 3/8	2 1/4	1810.00	164.00	1702.00	331.20

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Nominal	600 PSI						
Pipe Size	Number	Bolt hole	Stud	Flange	Flange	Bolt	Grip
(inches)	of Studs		Diameter	Diameter	Thickness	Cir. Dia.	Length
26	28	2	1 7/8	1015.00	108.00	914.00	219.20
28	28	2 1/8	2	1075.00	111.00	965.00	225.20
30	28	2 1/8	2	1130.00	114.00	1022.00	231.20
32	28	2 3/8	2 1/4	1195.00	117.00	1080.00	237.20
34	28	2 3/8	2 1/4	1245.00	121.00	1130.00	245.20
36	28	2 5/8	2 1/2	1315.00	124.00	1194.00	251.20
38	28	2 3/8	2 1/4	1270.00	152.00	1162.00	307.20
40	32	2 3/8	2 1/4	1320.00	159.00	1213.00	321.20
42	28	2 5/8	2 1/2	1405.00	168.00	1283.00	339.20
44	32	2 5/8	2 1/2	1455.00	173.00	1334.00	349.20
46	32	2 5/8	2 1/2	1510.00	179.00	1391.00	361.20
48	32	2 7/8	2 3/4	1595.00	189.00	1460.00	381.20
50	28	3 1/8	3	1670.00	197.00	1524.00	397.20
52	32	3 1/8	3	1720.00	203.00	1575.00	409.20
54	32	3 1/8	3	1780.00	210.00	1632.00	423.20
56	32	3 3/8	3 1/4	1855.00	217.00	1695.00	437.20
58	32	3 3/8	3 1/4	1905.00	222.00	1746.00	447.20
60	28	3 5/8	3 1/2	1995.00	233.00	1822.00	469.20

Nominal	900 PSI						
Pipe Size	Number	Bolt hole	Stud	Flange	Flange	Bolt	Grip
(inches)	of Studs		Diameter	Diameter	Thickness	Cir. Dia.	Length
26	20	2 7/8	2 3/4	1085.00	140.00	952.00	283.20
28	20	3 1/8	3	1170.00	143.00	1022.00	289.20
30	20	3 1/8	3	1230.00	149.00	1066.00	301.20
32	20	3 3/8	3 1/4	1315.00	159.00	1156.00	321.20
34	20	3 5/8	3 1/2	1395.00	165.00	1226.00	333.20
36	20	3 5/8	3 1/2	1460.00	171.00	1289.00	345.20
38	20	3 5/8	3 1/2	1460.00	190.00	1289.00	383.20
40	24	3 5/8	3 1/2	1510.00	197.00	1340.00	397.20
42	24	3 5/8	3 1/2	1560.00	206.00	1391.00	415.20
44	24	3 7/8	3 3/4	1650.00	214.00	1464.00	431.20
46	24	4 1/8	4	1735.00	225.00	1537.00	453.20
48	24	4 1/8	4	1785.00	233.00	1588.00	469.20
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