

BOLTING DIMENSIONS FOR ANSI FLANGES

ALL SIZES AS PER ANSI B16.5-1988

ANSI 900 LB FLANGES

Nominal Pipe Size		Diameter Of Studs		No. of Studs	Stud Bolt Length				Ring Joint Gasket No.
Inches	MM	Inches	MM		Raised Face		Ring Joint		
					Inches	MM	Inches	MM	
1/2	12.70	3/4	19.05	4	4	101.60	4-1/4	107.95	R12
3/4	19.05	3/4	19.05	4	4-1/4	107.95	4-1/2	114.30	R14
1	25.40	7/8	22.23	4	4-3/4	120.65	5	127.00	R16
1-1/4	31.75	7/8	22.23	4	5	127.00	5	127.00	R18
1-1/2	38.10	1	25.40	4	5-1/4	133.35	5-1/2	139.70	R20
2	50.80	7/8	22.23	8	5-1/2	139.70	5-3/4	146.05	R24
2-1/2	63.50	1	25.40	8	6-1/4	158.75	6-1/4	158.75	R27
3	76.20	7/8	22.23	8	5-1/2	139.70	5-3/4	146.05	R31
4	101.60	1-1/8	28.58	8	6-1/2	165.10	6-3/4	171.45	R37
5	127.00	1-1/4	31.75	8	7-1/2	190.50	7-1/2	190.50	R41
6	152.40	1-1/8	28.58	12	7-1/2	190.50	7-3/4	196.85	R45
8	203.20	1-3/8	34.93	12	8-1/2	215.90	8-3/4	222.25	R49
10	254.00	1-3/8	34.93	16	9	228.60	9-1/4	234.95	R53
12	304.80	1-3/8	34.93	20	9-3/4	247.65	10	254.00	R57
14	355.60	1-1/2	38.10	20	10-1/2	266.70	11	279.40	R62
16	406.40	1-5/8	41.28	20	11	279.40	11-1/2	292.10	R66
18	457.20	1-7/8	47.63	20	12-3/4	323.85	13-1/4	336.55	R70
20	508.00	2	50.80	20	13-1/2	342.90	14-1/4	361.95	R74
24	609.60	2-1/2	63.50	20	17	431.80	18	457.20	R78

ANSI 1500 LB FLANGES

Nominal Pipe Size		Diameter Of Studs		No. of Studs	Stud Bolt Length				Ring Joint Gasket No.
Inches	MM	Inches	MM		Raised Face		Ring Joint		
					Inches	MM	Inches	MM	
1/2	12.70	3/4	19.05	4	4	101.60	4-1/4	107.95	R12
3/4	19.05	3/4	19.05	4	4-1/4	107.95	4-1/2	114.30	R14
1	25.40	7/8	22.23	4	4-3/4	120.65	5	127.00	R16
1-1/4	31.75	7/8	22.23	4	5	127.00	5	127.00	R18
1-1/2	38.10	1	25.40	4	5-1/4	133.35	5-1/2	139.70	R20
2	50.80	7/8	22.23	8	5-1/2	139.70	5-3/4	146.05	R24
2-1/2	63.50	1	25.40	8	6-1/4	158.75	6-1/4	158.75	R27
3	76.20	1-1/8	28.58	8	6-3/4	171.45	7	177.80	R35
4	101.60	1-1/4	31.75	8	7-1/2	190.50	7-3/4	196.85	R39
5	127.00	1-1/2	38.10	8	9-3/4	247.65	9-3/4	247.65	R44
6	152.40	1-3/8	34.93	12	10	254.00	10-1/2	266.70	R46
8	203.20	1-5/8	41.28	12	11-1/4	285.75	11-3/4	298.45	R50
10	254.00	1-7/8	47.63	12	13-1/4	336.55	13-1/2	342.90	R54
12	304.80	2	50.80	16	14-3/4	374.65	15-1/4	387.35	R58
14	355.60	2-1/4	57.15	16	16	406.40	16-3/4	425.45	R63
16	406.40	2-1/2	63.50	16	17-1/2	444.50	18-1/2	469.90	R67
18	457.20	2-3/4	69.85	16	19-1/4	488.95	20-1/4	514.35	R71
20	508.00	3	76.20	16	21	533.40	22-1/4	565.15	R75
24	609.60	3-1/2	88.90	16	24	609.60	25-1/2	647.70	R79

ANSI 2500 LB FLANGES

Nominal Pipe Size		Diameter Of Studs		No. of Studs	Stud Bolt Length				Ring Joint Gasket No.
Inches	MM	Inches	MM		Raised Face		Ring Joint		
					Inches	MM	Inches	MM	
1/2	12.70	3/4	19.05	4	4-3/4	120.65	4-3/4	120.65	R13
3/4	19.05	3/4	19.05	4	4-3/4	120.65	5	127.00	R16
1	25.40	7/8	22.23	4	5-1/4	133.35	5-1/2	139.70	R18
1-1/4	31.75	1	25.40	4	6	152.40	6	152.40	R21
1-1/2	38.10	1-1/8	28.58	4	6-1/2	165.10	6-3/4	171.45	R23
2	50.80	1	25.40	8	6-3/4	171.45	7	177.80	R26
2-1/2	63.50	1-1/8	28.58	8	7-3/4	196.85	8	203.20	R28
3	76.20	1-1/4	31.75	8	8-1/2	215.90	9	228.60	R32
4	101.60	1-1/2	38.10	8	9-3/4	247.65	10-1/4	260.35	R38
5	127.00	1-3/4	44.45	8	11-3/4	298.45	12-1/4	311.15	R42
6	152.40	2	50.80	8	13-1/2	342.90	14	355.60	R47
8	203.20	2	50.80	12	15	381.00	15-1/2	393.70	R51
10	254.00	2-1/2	63.50	12	19	482.60	20	508.00	R55
12	304.80	2-3/4	69.85	12	21	533.40	22	558.80	R60

