

Flange Studs Size Chart

ASME B16.5-2013. Length of studs are measured 1st full thread to last full thread.

Class 150 LB

Nominal Pipe Size	Diameter of Studs	No. of Studs	Bolt Length of Studs		Ring Joint Gasket No.
			Raised Face	Ring Joint	
1/2	1/2	4	2-1/4	-	-
3/4	1/2	4	2-1/2	-	-
1	1/2	4	2-1/2	3	R15
1-1/4	1/2	4	2-3/4	3-1/4	R17
1-1/2	1/2	4	2-3/4	3-1/4	R19
2	5/8	4	3-1/4	3-1/4	R22
2-1/2	5/8	4	3-1/2	4	R25
3	5/8	4	3-1/2	4-1/4	R29
3-1/2	5/8	8	3-1/2	4-1/4	R33
4	3/4	8	3-1/2	4-1/4	R36
5	3/4	8	3-3/4	4-1/2	R40
6	3/4	8	4	4-1/2	R43
8	3/4	8	4-1/4	4-3/4	R48
10	7/8	12	4-3/4	5-1/4	R52
12	7/8	12	4-3/4	5-1/2	R56
14	1	12	5-1/4	6	R59
16	1	16	5-1/2	6	R64
18	1-1/8	16	6	6-1/2	R68
20	1-1/8	20	6-1/4	7	R72
22	1-1/4	20	6-1/2	7-1/4	R80
24	1-1/4	20	7	7-3/4	R76

Class 300 LB

Nominal Pipe Size	Diameter of Studs	No. of Studs	Bolt Length of Studs		Ring Joint Gasket No.
			Raised Face	Ring Joint	
1/2	1/2	4	2-1/2	3	R11
3/4	5/8	4	3	3-1/4	R13
1	5/8	4	3-1/4	3-1/4	R16
1-1/4	5/8	4	3-1/4	3-1/4	R18
1-1/2	3/4	4	3-1/2	4	R20
2	5/8	8	3-1/2	4-1/4	R23
2-1/2	3/4	8	4	4-1/2	R26
3	3/4	8	4-1/4	5	R31
3-1/2	3/4	8	4-1/4	5	R34
4	3/4	8	4-1/2	5-1/4	R37
5	3/4	8	4-3/4	5-1/4	R41
6	3/4	12	4-3/4	5-3/4	R45
8	7/8	12	5-1/2	6-1/4	R49
10	1	16	6-1/4	7-1/4	R53
12	1-1/8	16	6-3/4	7-1/2	R57
14	1-1/8	20	7	7-3/4	R61
16	1-1/4	20	7-1/2	8-1/4	R65
18	1-1/4	24	7-3/4	8-1/2	R69
20	1-1/4	24	8-1/4	9-1/4	R73
22	1-1/2	24	8-3/4	9-3/4	R81
24	1-1/2	24	9-1/4	10-1/4	R77

Class 400 LB

Nominal Pipe Size	Diameter of Studs	No. of Studs	Bolt Length of Studs		Ring Joint Gasket No.
			Raised Face	Ring Joint	
1/2	1/2	4	3	3	R11
3/4	5/8	4	3-1/2	3-1/2	R13
1	5/8	4	3-1/2	3-1/2	R16
1-1/4	5/8	4	3-3/4	3-3/4	R18
1-1/2	3/4	4	4-1/4	4-1/4	R20
2	5/8	8	4-1/4	4-1/4	R23
2-1/2	3/4	8	4-3/4	4-3/4	R26
3	3/4	8	5	5	R31
3-1/2	7/8	8	5-1/2	5-1/2	R34
4	7/8	8	5-1/2	5-1/2	R37
5	7/8	8	5-3/4	5-3/4	R41
6	7/8	12	6	6	R45
8	1	12	6-3/4	6-3/4	R49
10	1-1/8	16	7-1/2	7-1/2	R53
12	1-1/4	16	8	8	R57
14	1-1/4	20	8-1/4	8-1/4	R61
16	1-3/8	20	8-3/4	8-3/4	R65
18	1-3/8	24	9	9	R69
20	1-1/2	24	9-1/2	9-1/2	R73
22	1-5/8	24	10	10-1/2	R81
24	1-3/4	24	10-1/2	11	R77

Class 600 LB

Nominal Pipe Size	Diameter of Studs	No. of Studs	Bolt Length of Studs		Ring Joint Gasket No.
			Raised Face	Ring Joint	
1/2	1/2	4	3	3	R11
3/4	5/8	4	3-1/4	3-1/4	R13
1	5/8	4	3-1/2	3-1/2	R16
1-1/4	5/8	4	3-3/4	3-3/4	R18
1-1/2	3/4	4	4-1/4	4-1/4	R20
2	5/8	8	4-1/4	4-1/2	R23
2-1/2	3/4	8	5	5-1/4	R26
3	3/4	8	5	5-1/4	R31
3-1/2	7/8	8	5-1/2	5-1/2	R34
4	7/8	8	5-3/4	6	R37
5	1	8	6-1/2	6-1/2	R41
6	1	12	6-3/4	7	R45
8	1-1/8	12	7-3/4	8	R49
10	1-1/4	16	8-1/2	8-3/4	R53
12	1-1/4	20	8-3/4	9	R57
14	1-3/8	20	9-1/4	9-1/2	R61
16	1-1/2	20	10	10-1/4	R65
18	1-5/8	20	10-3/4	11	R69
20	1-5/8	24	11-1/2	11-3/4	R73
22	1-3/4	24	12	12-1/2	R81
24	1-7/8	24	13	13-1/2	R77

Flange Studs Size Chart

ASME B16.5-2013. Length of studs are measured 1st full thread to last full thread.

Class 900 LB

Nominal Pipe Size	Diameter of Studs	No. of Studs	Bolt Length of Studs		Ring Joint Gasket No.
			Raised Face	Ring Joint	
1/2	3/4	4	4	4-1/4	R12
3/4	3/4	4	4-1/4	4-1/2	R14
1	7/8	4	4-3/4	5	R16
1-1/4	7/8	4	5	5	R18
1-1/2	1	4	5-1/4	5-1/2	R20
2	7/8	8	5-1/2	5-3/4	R24
2-1/2	1	8	6-1/4	6-1/4	R27
3	7/8	8	5-1/2	5-3/4	R31
4	1-1/8	8	6-1/2	6-3/4	R37
5	1-1/4	8	7-1/2	7-1/2	R41
6	1-1/8	12	7-1/2	7-3/4	R45
8	1-3/8	12	8-1/2	8-3/4	R49
10	1-3/8	16	9	9-1/4	R53
12	1-3/8	20	9-3/4	10	R57
14	1-1/2	20	10-1/2	11	R62
16	1-5/8	20	11	11-1/2	R66
18	1-7/8	20	12-3/4	13-1/4	R70
20	2	20	13-1/2	14-1/4	R74
24	2-1/2	20	17	18	R78

Class 1500 LB

Nominal Pipe Size	Diameter of Studs	No. of Studs	Bolt Length of Studs		Ring Joint Gasket No.
			Raised Face	Ring Joint	
1/2	3/4	4	4	4-1/4	R12
3/4	3/4	4	4-1/4	4-1/2	R14
1	7/8	4	4-3/4	5	R16
1-1/4	7/8	4	5	5	R18
1-1/2	1	4	5-1/4	5-1/2	R20
2	7/8	8	5-1/2	5-3/4	R24
2-1/2	1	8	6-1/4	6-1/4	R27
3	1-1/8	8	6-3/4	7	R35
4	1-1/4	8	7-1/2	7-3/4	R39
5	1-1/2	8	9-3/4	9-3/4	R44
6	1-3/8	12	10	10-1/2	R46
8	1-5/8	12	11-1/4	11-3/4	R50
10	1-7/8	12	13-1/4	13-1/2	R54
12	2	16	14-3/4	15-1/4	R58
14	2-1/4	16	16	16-3/4	R63
16	2-1/2	16	17-1/2	18-1/2	R67
18	2-3/4	16	19-1/4	20-1/4	R71
20	3	16	21	22-1/4	R75
24	3-1/2	16	24	25-1/2	R79

Class 2500 LB

Nominal Pipe Size	Diameter of Studs	No. of Studs	Bolt Length of Studs		Ring Joint Gasket No.
			Raised Face	Ring Joint	
1/2	3/4	4	4-3/4	4-3/4	R13
3/4	3/4	4	4-3/4	5	R16
1	7/8	4	5-1/4	5-1/2	R18
1-1/4	1	4	6	6	R21
1-1/2	1-1/8	4	6-1/2	6-3/4	R23
2	1	8	6-3/4	7	R26
2-1/2	1-1/8	8	7-3/4	8	R28
3	1-1/4	8	8-1/2	9	R32
4	1-1/2	8	9-3/4	10-1/4	R38
5	1-3/4	8	11-3/4	12-1/4	R42
6	2	8	13-1/2	14	R47
8	2	12	15	15-1/2	R51
10	2-1/2	12	19	20	R55
12	2-3/4	12	21	22	R60