

Bolt and Stud Dimensions ASME B16.5

Nominal Pipe Size	150 LB. Flanges				300 LB. Flanges				400 LB. Flanges		
	# Bolts or Studs	Dia of Bolts or Studs	Length of Stud		# Bolts or Studs	Dia of Bolts or Studs	Length of Stud		No. of	Dia of Bolts or Studs	Length of Stud
			1/16 RF	RTJ			1/16 RF	RTJ			1/4 RF
1/2	4	0.50	2-1/2	-	4	0.50	2-3/4	3-1/4	4	0.50	3-1/4
3/4	4	0.50	2-1/2	-	4	0.62	3	3-1/2	4	0.63	3-1/2
1	4	0.50	2-3/4	3-1/4	4	0.62	3-1/4	3-3/4	4	0.63	3-3/4
1-1/4	4	0.50	2-3/4	3-1/4	4	0.62	3-1/4	3-3/4	4	0.63	4
1-1/2	4	0.50	3	3-1/2	4	0.75	3-3/4	4-1/4	4	0.75	4-1/4
2	4	0.62	3-1/4	3-3/4	8	0.62	3-1/2	4-1/4	8	0.63	4-1/4
2-1/2	4	0.62	3-1/2	4	8	0.75	4	4-3/4	8	0.75	4-3/4
3	4	0.62	3-3/4	4-1/4	8	0.75	4-1/4	5	8	0.75	5
3-1/2	8	0.62	3-3/4	4-1/4	8	0.75	4-1/2	5-1/4	8	0.88	5-1/2
4	8	0.62	3-3/4	4-1/4	8	0.75	4-1/2	5-1/4	8	0.88	5-1/2
5	8	0.75	4	4-1/2	8	0.75	4-3/4	5-1/2	8	0.88	5-3/4
6	8	0.75	4	4-1/2	12	0.75	5	5-3/4	12	0.88	6
8	8	0.75	4-1/4	4-1/2	12	0.88	5-1/2	6-1/4	12	1.00	6-3/4
10	12	0.88	4-3/4	5-1/4	16	1.00	6-1/4	7	16	1.13	7-1/2
12	12	0.88	4-3/4	5-1/4	16	1.12	6-3/4	7-1/2	16	1.25	8
14	12	1.00	5-1/4	5-3/4	20	1.12	7	7-3/4	20	1.25	8-1/4
16	16	1.00	5-1/2	6	20	1.25	7-1/2	8-1/4	20	1.38	8-3/4
18	16	1.12	6	6-1/2	24	1.25	7-3/4	8-1/2	24	1.38	9
20	20	1.12	6-1/4	6-3/4	24	1.25	8-1/4	9	24	1.50	9-3/4
24	20	1.25	7	7-1/2	24	1.50	9-1/4	10-1/4	24	1.75	10-3/4

Nominal Pipe Size	600 LB. Flanges			900 LB. Flanges			1500 LB. Flanges			2500 LB. Flanges		
	# Bolts or Studs	Dia of Bolts or Studs	Length of Stud	# Bolts or Studs	Dia of Bolts or Studs	Length of Stud	No. of Bolts or Studs	Dia of Bolts or Studs	Length of Stud	# Bolts or Studs	Dia of Bolts or Studs	Length of Stud
			1/4 RF			1/4 RF			1/4 RF			1/4 RF
1/2	4	0.50	3-1/4	4	0.75	4-1/4	4	0.75	4-1/4	4	0.75	5
3/4	4	0.63	3-1/2	4	0.75	4-1/2	4	0.75	4-1/2	4	0.75	5
1	4	0.63	3-3/4	4	0.88	5	4	0.88	5	4	0.88	5-1/2
1-1/4	4	0.63	4	4	0.88	5	4	-	5	4	1.00	6
1-1/2	4	0.75	4-1/4	4	1.00	5-1/2	4	1.00	5-1/2	4	1.13	6-3/4
2	8	0.63	4-1/4	8	0.88	5-3/4	8	0.88	5-3/4	8	1.00	7
2-1/2	8	0.75	4-3/4	8	1.00	6-1/4	8	1.00	6-1/4	8	1.13	7-3/4
3	8	0.75	5	8	0.88	5-3/4	8	1.13	7	8	1.25	8-3/4
3-1/2	8	0.88	5-1/2	-	-	-	-	-	-	-	-	-
4	8	0.88	5-3/4	8	1.13	6-3/4	8	1.25	7-3/4	8	1.50	10
5	8	1.00	6-1/2	8	1.25	7-1/2	8	1.50	9-3/4	8	1.75	11-3/4
6	12	1.00	6-3/4	12	1.13	7-3/4	12	1.38	10-1/4	8	2.00	13-3/4
8	12	1.13	7-3/4	12	1.38	8-3/4	12	1.63	11-1/2	12	2.00	15-1/4
10	16	1.25	8-1/2	16	1.38	9-1/4	12	1.88	13-1/2	12	2.50	19-1/4
12	20	1.25	8-3/4	20	1.38	10	12	2.00	15	12	2.75	21-1/4
14	20	1.38	9-1/4	20	1.50	10-3/4	16	2.25	16-1/4	-	-	-
16	20	1.50	10	20	1.63	11-1/4	16	2.50	17-3/4	-	-	-
18	20	1.63	10-3/4	20	1.88	13	16	2.75	19-1/2	-	-	-
20	24	1.63	11-1/2	20	2.00	13-3/4	16	3.00	21-1/4	-	-	-
24	24	1.88	13	20	2.50	17-1/4	16	3.50	24-1/4	-	-	-