



ASME B18.31.3 Threaded Rods

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the near future and be your friends as well.

This Standard covers the complete dimensional and general data for continuous thread, flange studs (stud bolts), and double-end inch-dimensioned studs. The following configurations are covered:

Continuous thread stud: studs that are threaded over their complete length.

Flange stud (stud bolt): threaded studs used primarily in applications with flanges covered by ASME B16.5, and made using ASTM A01 bolting materials.

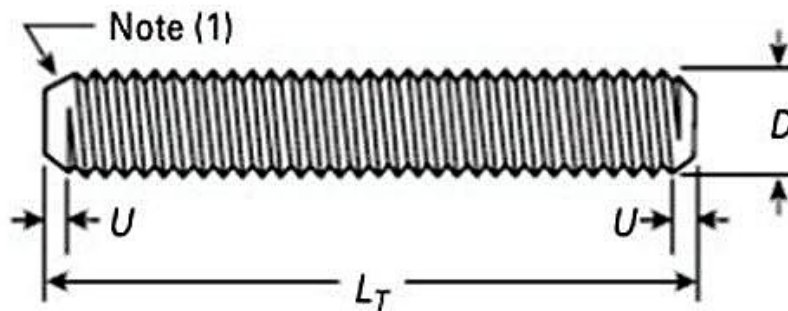
Double-end stud (clamping type—identical ends): studs with screw threads of the same length and configuration on each end. This type of stud serves the function of clamping two bodies together with a nut on each end.

Double-end stud (tap end type): a stud designed to be installed in a tapped hole and usually with different threaded lengths on each end. For the tap end of the studs, both regular unified threads and interference-fit threads are covered.

Double-end studs of the following body diameters are covered:

- (a) Reduced diameter body
- (b) Full body

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Nominal Size	Diameter, D	Threads Per Inch	U _{max} = 2 Thread Pitches = 2P
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		UNC	UNF	8UN	UNC Threads	UNF Threads	8UN Threads
1/4	0.2500	20	28	-	0.100	0.071	-
5/16	0.3125	18	24	-	0.111	0.083	-
3/8	0.3750	16	24	-	0.125	0.083	-
7/16	0.4375	14	20	-	0.143	0.100	-
1/2	0.5000	13	20	-	0.154	0.100	-
9/16	0.5625	12	18	-	0.167	0.111	-
5/8	0.6250	11	18	-	0.182	0.111	-
3/4	0.7500	10	16	-	0.200	0.125	-
7/8	0.8750	9	14	-	0.222	0.143	-
1	1.0000	8	12	-	0.250	0.167	-
1-1/8	1.1250	7	12	8	0.286	0.167	0.25
1-1/4	1.2500	7	12	8	0.286	0.167	0.25
1-3/8	1.3750	6	12	8	0.333	0.167	0.25
1-1/2	1.5000	6	12	8	0.333	0.167	0.25
1-5/8	1.6250	-	-	8	-	-	0.25
1-3/4	1.7500	5	-	8	0.400	-	0.25
1-7/8	1.8750	-	-	8	-	-	0.25
2	2.0000	4-1/2	-	8	0.444	--	0.25
2-1/4	2.2500	4-1/2	-	8	0.444	-	0.25
2-1/2	2.5000	4	-	8	0.500	-	0.25
2-3/4	2.7500	4	-	8	0.500	-	0.25
3	3.0000	4	-	8	0.500	-	0.25
3-1/4	3.2500	4	-	8	0.500	-	0.25
3-1/2	3.5000	4	-	8	0.500	-	0.25
3-3/4	3.7500	4	-	8	0.500	-	0.25
4	4.0000	4	-	8	0.500	-	0.25