



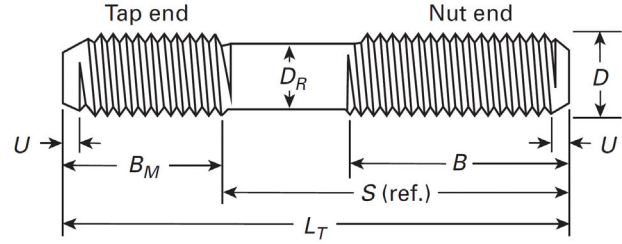
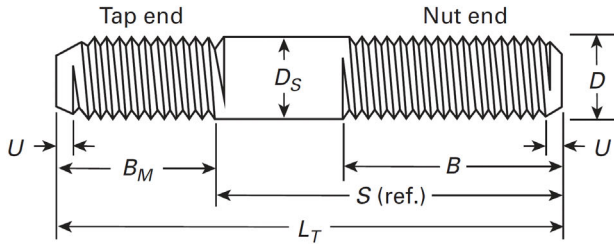
# Tap-End Studs



+1 (610) 904-8616

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[www.nickel-systems.com](http://www.nickel-systems.com)



**Full Body**

**Reduced Body**

Nominal Size Diameter	B <sub>M</sub>			U <sub>max</sub>			B <sub>min</sub>		
	Tap-End Thread Length			U <sub>max</sub> = 2P			Minimum Nut-End Full Thread Length		
	Nominal	Min.	Max.	UNC & NC-5 Thread	UNF Thread	8UN Thread	L ≤ 10	10 < L ≤ 16	L > 16
1/4	0.375	0.350	0.400	0.100	0.071	...	0.750	1.000	1.500
5/16	0.469	0.440	0.498	0.111	0.083	...	0.875	1.125	1.625
3/8	0.563	0.532	0.594	0.125	0.083	...	1.000	1.250	1.750
7/16	0.656	0.620	0.692	0.143	0.100	...	1.125	1.375	1.875
1/2	0.750	0.708	0.792	0.154	0.100	...	1.250	1.500	2.000
9/16	0.844	0.802	0.896	0.167	0.111	...	1.375	1.625	2.125
5/8	0.938	0.892	0.983	0.182	0.111	...	1.500	1.750	2.250
3/4	1.125	1.075	1.175	0.200	0.125	...	1.750	2.000	2.500
7/8	1.313	1.258	1.368	0.222	0.143	...	2.000	2.250	2.750
1	1.500	1.438	1.562	0.250	0.167	...	2.250	2.500	3.000
1-1/8	1.688	1.625	1.750	0.286	0.167	0.250	2.500	2.750	3.250
1-1/4	1.875	1.813	1.938	0.286	0.167	0.250	2.750	3.000	3.500
1-3/8	2.063	2.000	2.125	0.333	0.167	0.250	3.000	3.250	3.750
1-1/2	2.250	2.188	2.313	0.333	0.167	0.250	3.250	3.500	4.000
1-5/8	2.438	2.375	2.500	...	...	0.250	3.500	3.750	4.250
1-3/4	2.625	2.563	2.688	0.400 UNC	...	0.250	3.750	4.000	4.500
1-7/8	2.813	2.750	2.875	...	...	0.250	4.000	4.250	4.750
2	3.000	2.925	3.075	0.444 UNC	...	0.250	4.250	4.500	5.000
2-1/4	3.375	3.300	3.450	0.444 UNC	...	0.250	4.750	5.000	5.500
2-1/2	3.750	3.675	3.825	0.500 UNC	...	0.250	5.250	5.500	6.000
2-3/4	4.125	4.050	4.200	0.500 UNC	...	0.250	5.750	6.000	6.500
3	4.500	4.425	4.575	0.500 UNC	...	0.250	...	6.500	7.000
3-1/4	4.875	4.775	4.975	0.500 UNC	...	0.250	...	7.000	7.500
3-1/2	5.250	5.150	5.350	0.500 UNC	...	0.250	...	7.500	8.000
3-3/4	5.625	5.525	5.725	0.500 UNC	...	0.250	...	8.000	8.500
4	6.000	5.900	6.100	0.500 UNC	...	0.250	...	8.500	9.000

Note: (1) All dimensions are in inches. (2) L<sub>T</sub> is the nominal threaded bolt length. For common nominal sizes, tap-end studs are typically stocked in 1/8" increments up to 1" long, in 1/4" increments from 1" to 6" long & in 1/2" increments from 6" to 10" long. (3) U<sub>max</sub> = 2P where P equals thread pitch. See ASME B18.31.02-2014 for more details.



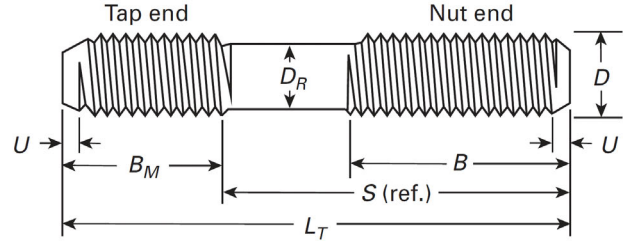
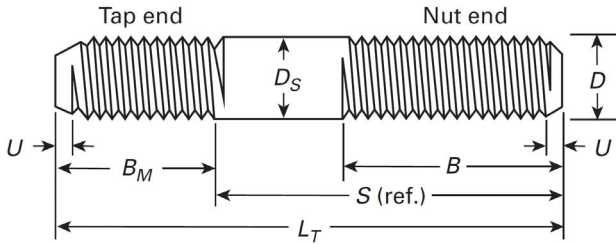
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**Full Body**

**Reduced Body**

Nominal Size	Nominal Diameter, D, & Maximum Full Body, D <sub>S</sub>	Minimum Body Diameter, D <sub>S</sub> , for Full Body Studs & Maximum Body Diameter, D <sub>R</sub> , for Reduced Body Studs			Minimum Body Diameter, D <sub>R</sub> , for Reduced-Body Studs		
		UNC & NC-5 HF Threads	UNF Threads	8UN Threads	UNC & NC-5 HF Threads	UNF Threads	8UN Threads
1/4	0.2500	0.241	0.243	...	0.213	0.223	...
5/16	0.3125	0.303	0.304	...	0.271	0.281	...
3/8	0.3750	0.364	0.367	...	0.329	0.343	...
7/16	0.4375	0.426	0.428	...	0.385	0.400	...
1/2	0.5000	0.488	0.491	...	0.444	0.462	...
9/16	0.563	0.550	0.552	...	0.502	0.521	...
5/8	0.6250	0.611	0.615	...	0.559	0.583	...
3/4	0.7500	0.735	0.739	...	0.677	0.703	...
7/8	0.8750	0.859	0.863	...	0.795	0.822	...
1	1.0000	0.983	0.987	...	0.910	0.938	...
1-1/8	1.1250	1.106	1.112	1.108	1.023	1.063	1.035
1-1/4	1.2500	1.231	1.237	1.233	1.148	1.188	1.160
1-3/8	1.3750	1.354	1.362	1.358	1.256	1.313	1.284
1-1/2	1.5000	1.479	1.487	1.483	1.381	1.438	1.409
1-5/8	1.6250	...	...	1.608	...	...	1.534
1-3/4	1.7500	1.727 UNC	...	1.733	1.609 UNC	...	1.659
1-7/8	1.8750	...	...	1.858	...	...	1.784
2	2.0000	1.975 UNC	...	1.983	1.843 UNC	...	1.909
2-1/4	2.2500	2.225 UNC	...	2.233	2.093 UNC	...	2.158
2-1/2	2.5000	2.473 UNC	...	2.483	2.324 UNC	...	2.408
2-3/4	2.7500	2.723 UNC	...	2.733	2.574 UNC	...	2.658
3	3.0000	2.973 UNC	...	2.982	2.824 UNC	...	2.908
3-1/4	3.2500	3.223 UNC	...	3.232	3.073 UNC	...	3.158
3-1/2	3.5000	3.473 UNC	...	3.482	3.323 UNC	...	3.407
3-3/4	3.7500	3.723 UNC	...	3.732	3.573 UNC	...	3.657
4	4.0000	3.973 UNC	...	3.982	3.823 UNC	...	3.907

Note: (1) All dimensions are in inches. (2) All dimensions are before plating. See ASME B18.31.02-2014 for more details.