

Dimensions in inches. Unless otherwise specified, tolerances: decimals $\pm .010$, angles $\pm 5^\circ$.

Basic AN Part No.	Thread T	A Diameter		B		C	D		E	F		H Diam Min	J Drill Diam $+.010$ $-.000$	K Drill Diam $+.010$ $-.000$
		Max	Min	Max	Min		Max	Min		Max	Min			
AN3	#10-32 NF-3A	.189	.186	.377	.365	.430	.141	.109	.266	.047	.015	.359	.070	.046
AN4	1/4-28 UNF-3A	.249	.246	.440	.428	.510	.172	.140	.313			.422	.076	
AN5	5/16-24 UNF-3A	.312	.309	.502	.490	.580	.204	.172	.359	.063	.031	.484	.076	.070
AN6	3/8-24 UNF-3A	.374	.371	.565	.553	.650	.235	.203	.438					
AN7	7/16-20 UNF-3A	.437	.433	.627	.615	.720	.266	.234	.484			.609	.106	
AN8	1/2-20 UNF-3A	.499	.495	.752	.740	.870	.297	.265	.609			.734	.106	
AN10	5/8-18 UNF-3A	.624	.620	.940	.928	1.090	.360	.328	.734	.078	.046	.922	.141	

MATERIAL: Non-corrosion-resistant steel, corrosion-resistant steel, or aluminum alloy. See procurement spec.

FINISH: See procurement spec.

Add "C" before dash number for corrosion-resistant steel bolt.

Add "DD" before dash number for aluminum alloy steel bolt.

Add "A" after dash number for undrilled bolt. See illustration below.

Add "H" before dash number for bolt with drilled head and shank. See illustration below.

Add "H" before dash number and "A" after dash number for bolt with drilled head only. See illustration below.

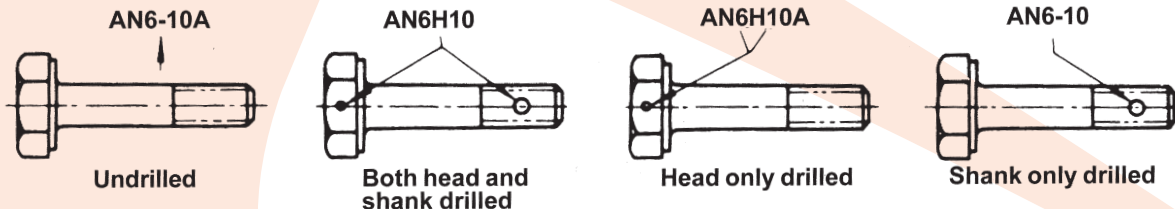


ILLUSTRATION OF DRILLED AND UNDRILLED BOLTS AND PART NUMBERS

Bolts shall be free from all hanging burrs and slivers which might become dislodged under usage. Countersinking of drilled holes in head is mandatory. Countersinking of drilled holes in shank is optional.

PROCUREMENT SPECIFICATION MIL-B-6812	TITLE BOLT, MACHINE, AIRCRAFT	CLASSIFICATION STANDARD PART AN3 THRU AN10
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Dash No.	AN3		AN4		AN5		AN6		AN7		AN8		AN10	
	Grip	Length	Grip	Length	Grip	Length	Grip	Length	Grip	Length	Grip	Length	Grip	Length
3	.063	.469	.063	.469										
4	.125	.531	.063	.531	.063	.594								
5	.250	.656	.188	.656	.188	.719	.063	.703	.063	.719				
6	.375	.781	.313	.781	.313	.844	.188	.828	.188	.844	.063	.844		
7	.500	.906	.438	.906	.438	.969	.313	.953	.313	.969	.188	.969	.063	1.02
10	.625	1.03	.563	1.03	.563	1.09	.438	1.08	.438	1.09	.313	1.09	.188	1.14
11	.750	1.16	.688	1.16	.688	1.22	.563	1.20	.563	1.22	.438	1.22	.313	1.27
12	.875	1.28	.813	1.28	.813	1.34	.688	1.33	.688	1.34	.563	1.34	.438	1.39
13	1.00	1.41	.938	1.41	.938	1.47	.813	1.45	.813	1.47	.688	1.47	.563	1.52
14	1.13	1.53	1.06	1.53	1.06	1.59	.938	1.58	.938	1.59	.813	1.59	.688	1.64
15	1.25	1.66	1.19	1.66	1.19	1.72	1.06	1.70	1.06	1.72	.938	1.72	.813	1.77
16	1.38	1.78	1.31	1.78	1.31	1.84	1.19	1.83	1.19	1.84	1.06	1.84	.938	1.89
17	1.50	1.91	1.44	1.91	1.44	1.97	1.31	1.95	1.31	1.97	1.19	1.97	1.06	2.02
20	1.63	2.03	1.56	2.03	1.56	2.09	1.44	2.08	1.44	2.09	1.31	2.09	1.19	2.14
21	1.75	2.16	1.69	2.16	1.69	2.22	1.56	2.20	1.56	2.22	1.44	2.22	1.31	2.27
22	1.88	2.28	1.81	2.28	1.81	2.34	1.69	2.33	1.69	2.34	1.56	2.34	1.44	2.39
23	2.00	2.41	1.94	2.41	1.94	2.47	1.81	2.45	1.81	2.47	1.69	2.47	1.56	2.52
24	2.13	2.53	2.06	2.53	2.06	2.59	1.94	2.58	1.94	2.59	1.81	2.59	1.69	2.64
25	2.25	2.66	2.19	2.66	2.19	2.72	2.06	2.70	2.06	2.72	1.94	2.72	1.81	2.77
26	2.38	2.78	2.31	2.78	2.31	2.84	2.19	2.83	2.19	2.84	2.06	2.84	1.94	2.89
27	2.50	2.91	2.44	2.91	2.44	2.97	2.31	2.95	2.31	2.97	2.19	2.97	2.06	3.02
30	2.63	3.03	2.56	3.03	2.56	3.09	2.44	3.08	2.44	3.09	2.31	3.09	2.19	3.14
31	2.75	3.16	2.69	3.16	2.69	3.22	2.56	3.20	2.56	3.22	2.44	3.22	2.31	3.27
32	2.88	3.28	2.81	3.28	2.81	3.34	2.69	3.33	2.69	3.34	2.56	3.34	2.44	3.39
33	3.00	3.41	2.94	3.41	2.94	3.47	2.81	3.45	2.81	3.47	2.69	3.47	2.56	3.52
34	3.13	3.53	3.06	3.53	3.06	3.59	2.94	3.58	2.94	3.59	2.81	3.59	2.69	3.64
35	3.25	3.66	3.19	3.66	3.19	3.72	3.06	3.70	3.06	3.72	2.94	3.72	2.81	3.77
36	3.38	3.78	3.31	3.78	3.31	3.84	3.19	3.83	3.19	3.84	3.06	3.84	2.94	3.89
37	3.50	3.91	3.44	3.91	3.44	3.97	3.31	3.95	3.31	3.97	3.19	3.97	3.06	4.02
40	3.63	4.03	3.56	4.03	3.56	4.09	3.44	4.08	3.44	4.09	3.31	4.09	3.19	4.14
41	3.75	4.16	3.69	4.16	3.69	4.22	3.56	4.20	3.56	4.22	3.44	4.22	3.31	4.27
42	3.88	4.28	3.81	4.28	3.81	4.34	3.69	4.33	3.69	4.34	3.56	4.34	3.44	4.39
43	4.00	4.41	3.94	4.41	3.94	4.47	3.81	4.45	3.81	4.47	3.69	4.47	3.56	4.52
44	4.13	4.53	4.06	4.53	4.06	4.59	3.94	4.58	3.94	4.59	3.81	4.59	3.69	4.64
45	4.25	4.66	4.19	4.66	4.19	4.72	4.06	4.70	4.06	4.72	3.94	4.72	3.81	4.77
46	4.38	4.78	4.31	4.78	4.31	4.84	4.19	4.83	4.19	4.84	4.06	4.84	3.94	4.89
47	4.50	4.91	4.44	4.91	4.44	4.97	4.31	4.95	4.31	4.97	4.19	4.97	4.06	5.02
50	4.63	5.03	4.56	5.03	4.56	5.09	4.44	5.08	4.44	5.09	4.31	5.09	4.19	5.14
51	4.75	5.16	4.69	5.16	4.69	5.22	4.56	5.20	4.56	5.22	4.44	5.22	4.31	5.27
52	4.88	5.28	4.81	5.28	4.81	5.34	4.69	5.33	4.69	5.34	4.56	5.34	4.44	5.39
53	5.00	5.41	4.94	5.41	4.94	5.47	4.81	5.45	4.81	5.47	4.69	5.47	4.56	5.52
54	5.13	5.53	5.06	5.53	5.06	5.59	4.94	5.58	4.94	5.59	4.81	5.59	4.69	5.64
55	5.25	5.66	5.19	5.66	5.19	5.72	5.06	5.70	5.06	5.72	4.94	5.72	4.81	5.77
56	5.38	5.78	5.31	5.78	5.31	5.84	5.19	5.83	5.19	5.84	5.06	5.84	4.94	5.89
57	5.50	5.91	5.44	5.91	5.44	5.97	5.31	5.95	5.31	5.97	5.19	5.97	5.06	6.02
60	5.63	6.03	5.56	6.03	5.56	6.09	5.44	6.08	5.44	6.09	5.31	6.09	5.19	6.14
61	5.75	6.16	5.69	6.16	5.69	6.22	5.56	6.20	5.56	6.22	5.44	6.22	5.31	6.27
62	5.88	6.28	5.81	6.28	5.81	6.34	5.69	6.33	5.69	6.34	5.56	6.34	5.44	6.39
63	6.00	6.41	5.94	6.41	5.94	6.47	5.81	6.45	5.81	6.47	5.69	6.47	5.56	6.52
64	6.13	6.53	6.06	6.53	6.06	6.59	5.94	6.58	5.94	6.59	5.81	6.59	5.69	6.64
65	6.25	6.66	6.19	6.66	6.19	6.72	6.06	6.70	6.06	6.72	5.94	6.72	5.81	6.77
66	6.38	6.78	6.31	6.78	6.31	6.84	6.19	6.83	6.19	6.84	6.06	6.84	5.94	6.89