BARNHILL BOLT CO., INC.

PRODUCT INFORMATION SHEET

External Threads - Class 2A
ASME B1.1

Nominal Size	Series Designation	Allowance	Major Diameter		Pitch Diameter		
			Max	Min	Max	Min	Tolerance
0- 80	UNF	0.0005	0.0595	0.0563	0.0514	0.0496	0.0018
1- 64	UNC	0.0006	0.0724	0.0686	0.0623	0.0603	0.0020
1- 72	UNF	0.0006	0.0724	0.0689	0.0634	0.0615	0.0019
2- 56	UNC	0.0006	0.0854	0.0813	0.0738	0.0717	0.0021
2- 64	UNF	0.0006	0.0854	0.0816	0.0753	0.0733	0.0020
3- 48	UNC	0.0007	0.0983	0.0938	0.0848	0.0825	0.0023
3- 56	UNF	0.0007	0.0983	0.0942	0.0867	0.0845	0.0022
4- 40	UNC	0.0008	0.1112	0.1061	0.0950	0.0925	0.0025
4- 48	UNF	0.0007	0.1113	0.1068	0.0978	0.0954	0.0024
5- 40	UNC	0.0008	0.1242	0.1191	0.1080	0.1054	0.0026
5- 44	UNF	0.0007	0.1243	0.1195	0.1095	0.1070	0.0025
6- 32	UNC	0.0008	0.1372	0.1312	0.1169	0.1141	0.0028
6- 40	UNF	0.0008	0.1372	0.1321	0.1210	0.1184	0.0026
8- 32	UNC	0.0009	0.1631	0.1571	0.1428	0.1399	0.0029
8- 36	UNF	0.0008	0.1632	0.1577	0.1452	0.1424	0.0028
10- 24	UNC	0.0010	0.1890	0.1818	0.1619	0.1586	0.0033
10- 32	UNF	0.0009	0.1891	0.1831	0.1688	0.1658	0.0030
12- 24	UNC	0.0010	0.2150	0.2078	0.1879	0.1845	0.0034
12- 28	UNF	0.0010	0.2150	0.2085	0.1918	0.1886	0.0032
1/4- 20	UNC	0.0011	0.2489	0.2367	0.2164	0.2108	0.0056
1/4- 28	UNF	0.0010	0.2490	0.2425	0.2258	0.2225	0.0033
5/16- 18	UNC	0.0012	0.3113	0.3026	0.2752	0.2712	0.0040
5/16- 24	UNF	0.0011	0.3114	0.3042	0.2843	0.2806	0.0037
3/8- 16	UNC	0.0013	0.3737	0.3643	0.3331	0.3287	0.0044

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Nominal Size	Series Designation	Allowance	Major Diameter		Pitch Diameter		
			Max	Min	Max	Min	Tolerance
3/8- 24	UNF	0.0011	0.3739	0.3667	0.3468	0.3430	0.0038
7/16- 14	UNC	0.0014	0.4361	0.4258	0.3897	0.3850	0.0047
7/16- 20	UNF	0.0013	0.4362	0.4281	0.4037	0.3995	0.0042
1/2- 13	UNC	0.0015	0.4985	0.4876	0.4485	0.4435	0.0050
1/2- 20	UNF	0.0013	0.4987	0.4906	0.4662	0.4619	0.0043
9/16- 12	UNC	0.0016	0.5609	0.5495	0.5068	0.5016	0.0052
9/16- 18	UNF	0.0014	0.5611	0.5524	0.5250	0.5205	0.0045
5/8- 11	UNC	0.0016	0.6234	0.6113	0.5644	0.5589	0.0055
5/8- 18	UNF	0.0014	0.6236	0.6149	0.5875	0.5828	0.0047
3/4- 10	UNC	0.0018	0.7482	0.7353	0.6832	0.6773	0.0059
3/4- 16	UNF	0.0015	0.7485	0.7391	0.7079	0.7029	0.0050
7/8- 9	UNC	0.0019	0.8731	0.8592	0.8009	0.7946	0.0063
7/8- 14	UNF	0.0016	0.8734	0.8631	0.8270	0.8216	0.0054
1- 8	UNC	0.0020	0.9980	0.9830	0.9168	0.9100	0.0068
1- 12	UNF	0.0018	0.9982	0.9868	0.9441	0.9382	0.0059
1- 14	UNS	0.0017	0.9983	0.9880	0.9519	0.9463	0.0056
1 1/8- 7	UNC	0.0022	1.1228	1.1064	1.0300	1.0228	0.0072
1 1/8- 8	UN	0.0021	1.1229	1.1079	1.0417	1.0348	0.0069
1 1/8- 12	UNF	0.0018	1.1232	1.1118	1.0691	1.0631	0.0060
1 1/4- 7	UNC	0.0022	1.2478	1.2314	1.1550	1.1476	0.0074
1 1/4- 8	UN	0.0021	1.2479	1.2329	1.1667	1.1597	0.0070
1 1/4- 12	UNF	0.0018	1.2482	1.2368	1.1941	1.1879	0.0062
1 3/8- 6	UNC	0.0024	1.3726	1.3544	1.2643	1.2563	0.0080
1 3/8- 8	UN	0.0022	1.3728	1.3578	1.2916	1.2844	0.0072

BARNHILL BOLT CO, INC. ● PHONE: 505-884-1808 ● EMAIL: info@barnhillbolt.com

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Nominal Size	Series Designation	Allowance	Major Diameter		Pitch Diameter		
			Max	Min	Max	Min	Tolerance
1 3/8- 12	UNF	0.0019	1.3731	1.3617	1.3190	1.3127	0.0063
1 1/2- 6	UNC	0.0024	1.4976	1.4794	1.3893	1.3812	0.0081
1 1/2- 8	UN	0.0022	1.4978	1.4828	1.4166	1.4093	0.0073
1 1/2- 12	UNF	0.0019	1.4981	1.4867	1.4440	1.4376	0.0064
1 5/8- 8	UN	0.0022	1.6228	1.6078	1.5416	1.5342	0.0074
1 3/4- 5	UNC	0.0027	1.7473	1.7268	1.6174	1.6085	0.0089
1 3/4- 8	UN	0.0023	1.7477	1.7327	1.6665	1.6590	0.0075
1 7/8- 8	UN	0.0023	1.8727	1.8577	1.7915	1.7838	0.0077
2- 4 1/2	UNC	0.0029	1.9971	1.9751	1.8528	1.8433	0.0095
2- 8	UN	0.0023	1.9977	1.9827	1.9165	1.9087	0.0078
2 1/4- 4 1/2	UNC	0.0029	2.2471	2.2251	2.1028	2.0931	0.0097
2 1/4- 8	UN	0.0024	2.2476	2.2326	2.1664	2.1584	0.0080
2 1/2- 4	UNC	0.0031	2.4969	2.4731	2.3345	2.3241	0.0104
2 1/2- 8	UN	0.0024	2.4976	2.4826	2.4164	2.4082	0.0082
2 3/4- 4	UNC	0.0032	2.7468	2.7230	2.5844	2.5739	0.0105
2 3/4- 8	UN	0.0025	2.7475	2.7325	2.6663	2.6580	0.0083
3- 4	UNC	0.0032	2.9968	2.9730	2.8344	2.8237	0.0107
3- 8	UN	0.0026	2.9974	2.9824	2.9162	2.9077	0.0085
3 1/4- 4	UNC	0.0033	3.2467	3.2229	3.0843	3.0734	0.0109
3 1/4- 8	UN	0.0026	3.2474	3.2324	3.1662	3.1575	0.0087
3 1/2- 4	UNC	0.0033	3.4967	3.4729	3.3343	3.3233	0.0110
3 1/2- 8	UN	0.0026	3.4974	3.4824	3.4162	3.4074	0.0088
3 3/4- 4	UNC	0.0034	3.7466	3.7228	3.5842	3.5730	0.0112

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External Threads - Class 2A
ASME B1.1

Nominal Size	Series Designation	Allowance	Major Diameter		Pitch Diameter		
			Max	Min	Max	Min	Tolerance
3 3/4- 8	UN	0.0027	3.7473	3.7323	3.6661	3.6571	0.0090
4- 4	UNC	0.0034	3.9966	3.9728	3.8342	3.8229	0.0113
4- 8	UN	0.0027	3.9973	3.9823	3.9161	3.9070	0.0091

The Fastener Specialists
BARNHILL BOLT CO., INC.

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