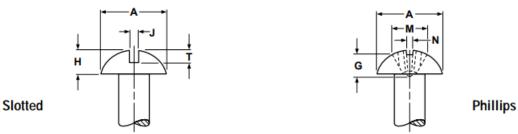


STOVE BOLTS

The following Specification Sheet applies to **Steel and Stainless Steel Stove Bolts** included in the **RSB series**.



ROUND HEADS FOR MACHINE SCREWS ANSI B18.6.3													
	Α		н		J		Т		М		G	N	
Nominal	Head Diameter		Height of Head		Width of Slot		Depth of Slot		Dimensions of I		of Recess		Phillips Driver Size
Size Head Diameter		neight of nead		Trium or Side		Deptil of Slot		Diameter		Depth	Width		
	Max	Min	Max	Min	Max	Min	Max Min		Max	Min	Max	Min	
2	.162	.146	.069	.059	.031	.023	.048	.037	.100	.087	.053	.017	1
3	.187	.169	.078	.067	.035	.027	.053	.040	.109	.096	.062	.018	1
4	.211	.193	.086	.075	.039	.031	.058	.044	.118	.105	.072	.019	1
5	.236	.217	.095	.083	.043	.035	.063	.047	.154	.141	.074	.027	2
6	.260	.240	.103	.091	.048	.039	.068	.051	.162	.149	.084	.027	2
8	.309	.287	.120	.107	.054	.045	.077	.058	.178	.165	.101	.030	2
10	.359	.334	.137	.123	.060	.050	.087	.065	.195	.182	.119	.031	2
12	.408	.382	.153	.139	.067	.056	.096	.073	.249	.236	.125	.032	3
1/4	.472	.443	.175	.160	.075	.064	.109	.082	.268	.255	.147	.034	3
5/16	.590	.557	.216	.198	.084	.072	.132	.099	.308	.295	.187	.040	3
3/8	.708	.670	.256	.237	.094	.081	.155	.117	.387	.374	.228	.064	4
1/2	.813	.766	.355	.332	.106	.091	.211	.159	.416	.403	.256	.068	4

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Description	A straight shank fastener with external threads designed to go through a hole or nut that is pre-tapped to form a mating thread for the screw.									
	Machine screws form a fastening superior in strength to spaced thread screws.									
	Steel	Stainless								
Applications/ Advantages	Steel Zinc is the most common and most popular variety of steel machine screws Steel Zinc yellow screws are popular in electronics applications.	18-8 Stainless steel machine screws are used in applications which require general atmospheric corrosion resistance, in food processing machinery and refrigeration equipment. Stainless is also superior to steel in withstanding some elevation in application operating temperature while maintaining its strength.								
	Steel Zinc Black and Black Oxide screws are used to blend in with black-colored components.	316 Stainless steel offers superior corrosion resistance to 18-8 and is superior at maintaining its strength at high temperatures.								
	static colored components.	410 Stainless steel is recommended in applications where greater tensile strength is needed such as control mechanisms or valves under high stress. 410 is not as corrosion resistant as are 18-8 or 316 stainless								
Material	AISI 1006 - 1022 or equivalent steel.	SAE 18-8 stainless steel	316 stainless steel	410 stainless steel						
Hardness	Rockwell B70 - B100.	Rockwell B85 - B95 (approximate)*	Rockwell B85 - B95 (approximate)*	Rockwell C34 (approximate)						
	60,000 psi. minimum.	80,000 psi. minimum (100,000 psi after cold working)*	85,000 - 140,000 psi.	180,000 psi.						
Tensile Strength	Steel machine screws which have a nominal diameter smaller than #4 are not subject to tensile testing. No. 4 and No. 5 machine screws which are shorter than 1/2" are not subject to tensile testing. Steel machine screws of diameters No. 6 to 1/2" inclusive, which are shorter than either 1/2" or 3D (where D is the nominal screw size in inches) are not subject to tensile testing. Such steel machine screws of a size to be tested shall meet the tensile load requirements listed above. Tensile strength values for stainless screws are offered as approximations only; there is no single standard for the performance requirements of stainless machine screws.									

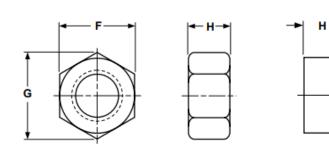
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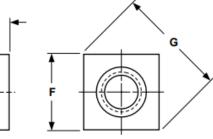
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HEX NUTS





SQUARE AND HEX MACHINE SCREW NUTS ANSI/ASME B18.6.3										
		F			G		G1		н	
Nominal Si	Nominal Size or Basic		dth Across F	late	Width Across Corners				Thickness	
Thread Diameter		Width Across Flats			Square		Hex		THICKIESS	
		Basic	Max	Min	Max	Min	Max	Min	Max	Min
0	0.0600	5/32	0.156	0.150	0.221	0.206	0.180	0.171	0.050	0.043
1	0.0730	5/32	0.156	0.150	0.221	0.206	0.180	0.171	0.050	0.043
2	0.0860	3/16	0.188	0.180	0.265	0.247	0.217	0.205	0.066	0.057
3	0.0990	3/16	0.188	0.180	0.265	0.247	0.217	0.205	0.066	0.057
4	0.1120	1/4	0.250	0.241	0.354	0.331	0.289	0.275	0.098	0.087
5	0.1250	5/16	0.312	0.302	0.442	0.415	0.361	0.344	0.114	0.102
6	0.1380	5/16	0.312	0.302	0.442	0.415	0.361	0.344	0.114	0.102
8	0.1640	11/32	0.344	0.332	0.486	0.456	0.397	0.378	0.130	0.117
10	0.1900	3/8	0.375	0.362	0.530	0.497	0.433	0.413	0.130	0.117
12	0.2160	7/16	0.438	0.423	0.619	0.581	0.505	0.482	0.161	0.148
1/4	0.2500	7/16	0.438	0.423	0.619	0.581	0.505	0.482	0.193	0.178
5/16	0.3125	9/16	0.562	0.545	0.795	0.748	0.650	0.621	0.225	0.208
3/8	0.3750	5/8	0.625	0.607	0.884	0.833	0.722	0.692	0.257	0.239

Description	Hex Machine Screw Nut: A six-sided internally threaded fastener with flat tops and chamfered corners. Threads shall be Unified Standard, Class 2B. Square Machine Screw Nut: A four-sided, internally threaded fastener, tops and bottoms flat, without chamfer. Threads shall be Unified coarse thread, Class 2B.
Applications/ Advantages	Hex Machine Screw Nut: Designed to be used specifically with machine screws. Stainless nuts are used with stainless machine screws where parts are subject to corrosive conditions. Square Machine Screw Nut: Offers a greater bearing surface for wrenching.
Material	Steel: Any low carbon steel Stainless: 18-8 stainless steel

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