









Table 8-9

SAE Specifications for Steel Bolts

SAE Grade No.	Size Range Inclusive, in	Minimum Proof Strength,* kpsi	Minimum Tensile Strength,* kpsi	Minimum Yield Strength,* kpsi	Material	Head Marking
1	$\frac{1}{4}$ - $1\frac{1}{2}$	33	60	36	Low or medium carbon	
2	$\frac{1}{4}$ - $\frac{3}{4}$	55	74	57	Low or medium carbon	
	$\frac{7}{8}$ - $1\frac{1}{2}$	33	60	36		
4	$\frac{1}{4}$ - $1\frac{1}{2}$	65	115	100	Medium carbon, cold-drawn	
5	$\frac{1}{4}$ -1	85	120	92	Medium carbon, Q&T	
	$1\frac{1}{8}$ - $1\frac{1}{2}$	74	105	81		
5.2	$\frac{1}{4}$ -1	85	120	92	Low-carbon martensite, Q&T	
7	$\frac{1}{4}$ - $1\frac{1}{2}$	105	133	115	Medium-carbon alloy, Q&T	
8	$\frac{1}{4}$ - $1\frac{1}{2}$	120	150	130	Medium-carbon alloy, Q&T	
8.2	$\frac{1}{4}$ -1	120	150	130	Low-carbon martensite, Q&T	

*Minimum strengths are strengths exceeded by 99 percent of fasteners.