



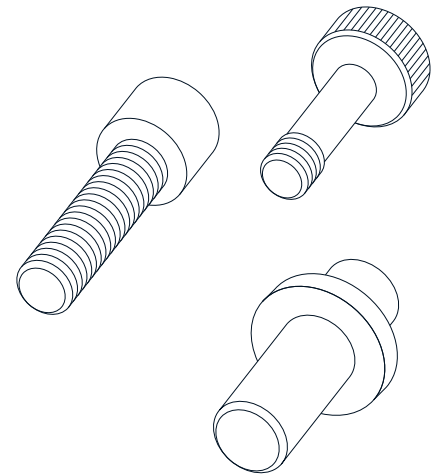
Fastener Specifications SAE (Inch) Tolerances & Dimensions

All dimensions in inches unless otherwise specified:

- Two Place Decimal ±.010
- Three Place Decimal ±.005
- Fractions ±1/64"

Important Notes:

- Length 6" or more for all spacers and standoffs, kept to ±.005.
- 4" to 6" long ±.008.
- Over 6" long ±.010.
- **SPECIAL CLOSE TOLERANCES** are available.
Just specify in the third stage of requesting a quote.
- **DIAMETER:** Std Commercial Tolerances on bar & rod.
- **ROUND - COLD FINISHED:**
 - Under 5/16" ±.001 - ±.005" (depending on facility)
 - 5/16" to 1/2", incl. ±.0015 - ±.005" (depending on facility)
 - 1/2" to 1", incl. ±.002 - ±.005" (depending on facility)



THREAD INFORMATION

*Threaded spacers (standoffs) shall be tapped through when length 'L' is NOT longer than dimension shown below.

Thread	Aluminum, Brass & Steel Nylon ('L')	Stainless Steel ('L')
0-80	3/8	1/4
1-72	3/8	1/4
2-56	1/2	3/8
3-56	1/2	3/8
4-40	1	3/4
4-48	1	3/4
5-40	1	3/4
6-32	1	3/4
6-40	1	3/4
8-32	1	3/4
10-24	1	3/4
10-32	1	3/4
12-24	1	3/4
1/4-20	1 1/4	1 1/4
1/4-28	1 1/4	1 1/4
5/16-18	1 1/4	1 1/4
5/16-24	1 1/4	1 1/4
3/8-16	1 1/4	1 1/4
3/8-24	1 1/4	1 1/4
7/16-14	1 1/4	1 1/4
7/16-20	1 1/4	1 1/4
1/2-13	1 1/4	1 1/4
1/2-20	1 1/4	1 1/4

* The following table gives "Blind Tap Depths" when length 'L' IS LONGER THAN dimension shown in 'Reference' column below.

Fastener Specifications SAE (Inch) Tolerances & Dimensions

THREAD INFORMATION *continued*

Thread	Reference Length (all materials)	Tap Depth
0-80	3/8	3/16
1-72	3/8	3/16
2-56	1/2	3/16
3-56	1/2	3/16
4-40	1/2	1/4
4-48	1	1/4
5-40	1	5/16
6-32	1	3/8
6-40	1	3/8
8-32	1	7/16
10-24	1	1/2
10-32	1	1/2
12-24	1	1/2
1/4-20	1 1/4	5/8
1/4-28	1 1/4	5/8
5/16-18	1 1/4	5/8<
5/16-24	1 1/4	5/8<
3/8-16	1 1/4	5/8
3/8-24	1 1/4	5/8
7/16-14	1 1/4	5/8
7/16-20	1 1/4	5/8
1/2-13	1 1/4	5/8
1/2-20	1 1/4	1 1/4

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ECCENTRICITY

The heads of machine screws shall not be eccentric with the body beyond a tolerance of 3 percent of the maximum head diameter.

SCREWDRIVER SLOT DIMENSIONS (Unless otherwise specified)

MACHINE SCREW SPECS				
Max. OD Diameter	W		H	
	Max.	Min.	Max.	Min.
Up to .160	.031	.023	.030	.022
.161 to .182	.035	.027	.034	.026
.183 to .204	.039	.031	.038	.030
.205 to .225	.039	.031	.042	.025
.226 to .269	.048	.039	.053	.033
.270 to .312	.054	.045	.074	.052
.313 to .413	.060	.050	.080	.057
.414 and up	.075	.064	.111	.083

SCREW LENGTH TOLERANCE (ALL EXCEPT Socket Head Cap Screws)

(Get Socket Head Cap Screw Specs and Tolerances Here)

NOMINAL SCREW SIZE	0 – 12	1/4 – 3/4
NOMINAL SCREW LENGTH	Length Tol.	Length Tol.
Up to 1/2 in., incl.	-0.02	-0.03
Over 1/2 to 1 in., incl.	-0.03	-0.03
Over 1 to 2 in., incl.	-0.06	-0.06
Over 2 in.	-0.09	-0.09

LEAD POINT SCREWS ONLY

NOMINAL SCREW SIZE	0 – 12	1/4 – 3/4
NOMINAL SCREW LENGTH	Length Tol.	Length Tol.
Up to 1/2 in., incl.	-0.03	-0.04
Over 1/2 to 1 in., incl.	-0.04	-0.04
Over 1 to 2 in., incl.	-0.07	-0.07
Over 2 in.	-0.09	-0.09

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