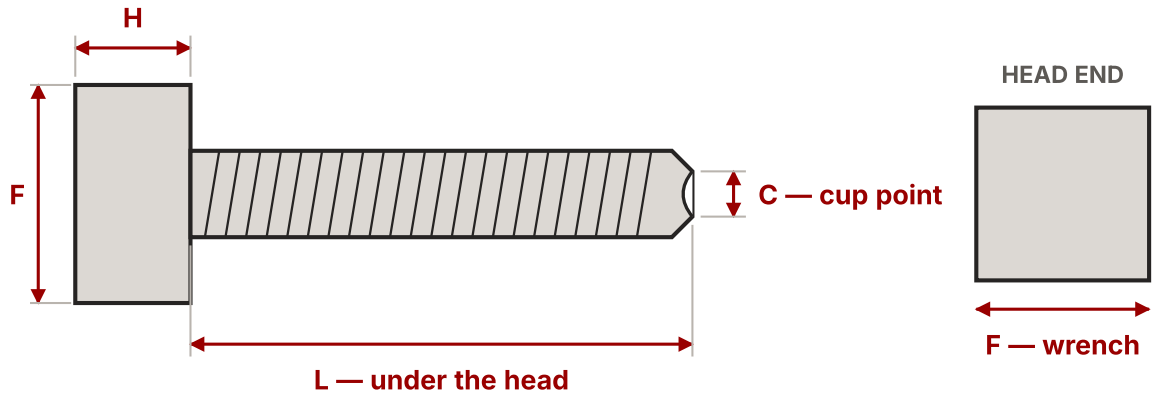
Square Head Set Screw Dimensions

jandesupply.com/reference-square-head-set-screw-dimensions.php

J & E Supply & FASTENER CO.

Wrench size, head height and point sizes for inch square head set screws, #10 to 1-1/2". ASME B18.6.2.

A **square head set screw** is turned with a wrench on its square head instead of a hex key. **F** is the size across the flats of the square — the wrench — and it equals the screw's own size. **G** is across the corners, **H** the head height, **C** the cup or flat point diameter and **P** the dog or half-dog point diameter. The head sits on top, so the length is measured from under the head to the point. Inches throughout.



Letters match the table.

Square head set screws — ASME B18.6.2 (inches)

SIZE	WRENCH	F MAX	F MIN	G MIN	H MAX	H MIN	C MAX	C MIN	P MAX	P MIN
#10	3/16"	0.188	0.180	0.247	**0.148**	0.134	–	–	**0.127**	0.120
1/4"	1/4"	0.250	0.241	0.331	**0.196**	0.178	**0.132**	0.118	**0.156**	0.149
5/16"	5/16"	0.312	0.302	0.415	**0.245**	0.224	**0.172**	0.156	**0.203**	0.195
3/8"	3/8"	0.375	0.362	0.497	**0.293**	0.270	**0.212**	0.194	**0.250**	0.241
7/16"	7/16"	0.438	0.423	0.581	**0.341**	0.315	**0.252**	0.232	**0.297**	0.287
1/2"	1/2"	0.500	0.484	0.665	**0.389**	0.361	**0.291**	0.270	**0.344**	0.334
9/16"	9/16"	0.562	0.545	–	**0.437**	0.407	**0.332**	0.309	**0.391**	0.379
5/8"	5/8"	0.625	0.606	0.833	**0.485**	0.452	**0.371**	0.347	**0.469**	0.456
3/4"	3/4"	0.750	0.729	1.001	**0.582**	0.544	**0.450**	0.425	**0.562**	0.549
7/8"	7/8"	0.875	0.852	1.170	**0.678**	0.635	**0.530**	0.502	**0.656**	0.642
1"	1"	1.000	0.974	1.337	**0.774**	0.726	**0.609**	0.579	**0.750**	0.734
1-1/8"	1-1/8"	1.125	1.096	1.505	**0.870**	0.817	**0.689**	0.655	**0.844**	0.826
1-1/4"	1-1/4"	1.250	1.219	1.674	**0.966**	0.908	**0.767**	0.733	**0.938**	0.920
1-3/8"	1-3/8"	1.375	1.342	1.843	**1.063**	1.000	**0.848**	0.808	**1.031**	1.011
1-1/2"	1-1/2"	1.500	1.464	2.010	**1.159**	1.091	**0.926**	0.886	**1.125**	1.105

A dash means our two sources don't agree on that number — give us a call at 405-670-1234. Which point to use is on the set screw chart; thread pitches are on the thread pitch chart.

Quick answers

What size wrench fits a 1/2" square head set screw?

A **1/2″** wrench — across the flats of the square equals the screw's own size (0.500″ max).

How do you measure a square head set screw?

From under the head to the point. The head sits on top, so it isn't part of the length.

How tall is the head on a square head set screw?

0.293″ on a 3/8″, 0.389″ on a 1/2″ and 0.582″ on a 3/4″ (maximum).

What is the cup point diameter of a 1/2" square head set screw?

0.291″ maximum, 0.270″ minimum.

Reference values drawn from the governing standards. For critical applications, confirm against the standard and the manufacturer's published data. Technical information disclaimer →