Socket Size Chart

SAE socket sizes, 1/4 to 1-1/2 inch

The nearest metric socket and how far off it is. A negative number means the metric socket is smaller than the bolt head, so it will not fit.

SAE size	Decimal (in)	Millimeters	Nearest metric socket	Typical bolt it fits
1/4"	0.2500	6.35	6 mm (-0.35)	—
5/16"	0.3125	7.94	8 mm (+0.06)	—
3/8"	0.3750	9.52	10 mm (+0.48)	—
7/16"	0.4375	11.11	11 mm (-0.11)	1/4 bolt
1/2"	0.5000	12.70	13 mm (+0.30)	5/16 bolt
9/16"	0.5625	14.29	14 mm (-0.29)	3/8 bolt
5/8"	0.6250	15.88	16 mm (+0.12)	7/16 bolt
11/16"	0.6875	17.46	17 mm (-0.46)	—
3/4"	0.7500	19.05	19 mm (-0.05)	1/2 bolt
13/16"	0.8125	20.64	21 mm (+0.36)	—
7/8"	0.8750	22.22	22 mm (-0.22)	—

SAE size	Decimal (in)	Millimeters	Nearest metric socket	Typical bolt it fits
15/16"	0.9375	23.81	24 mm (+0.19)	5/8 bolt
1"	1.0000	25.40	25 mm (-0.40)	—
1-1/16"	1.0625	26.99	27 mm (+0.01)	—
1-1/8"	1.1250	28.57	29 mm (+0.43)	3/4 bolt
1-3/16"	1.1875	30.16	30 mm (-0.16)	—
1-1/4"	1.2500	31.75	32 mm (+0.25)	—
1-5/16"	1.3125	33.34	33 mm (-0.34)	7/8 bolt
1-3/8"	1.3750	34.92	35 mm (+0.08)	—
1-7/16"	1.4375	36.51	37 mm (+0.49)	—
1-1/2"	1.5000	38.10	38 mm (-0.10)	1 bolt

Metric socket sizes, 4 to 32 mm

The nearest 1/16 inch socket and how far off it is.

Metric size	Decimal (in)	Nearest SAE socket	Typical ISO bolt it fits
4 mm	0.1575	3/16" (+0.76 mm)	—
5 mm	0.1969	3/16" (-0.24 mm)	—

Metric size	Decimal (in)	Nearest SAE socket	Typical ISO bolt it fits
14 mm	0.5512	9/16" (+0.29 mm)	—
15 mm	0.5906	9/16" (-0.71 mm)	—

Metric size	Decimal (in)	Nearest SAE socket	Typical ISO bolt it fits
24 mm	0.9449	15/16" (-0.19 mm)	M16
25 mm	0.9843	1" (+0.40 mm)	—
26 mm	1.0236	1" (-0.60 mm)	—

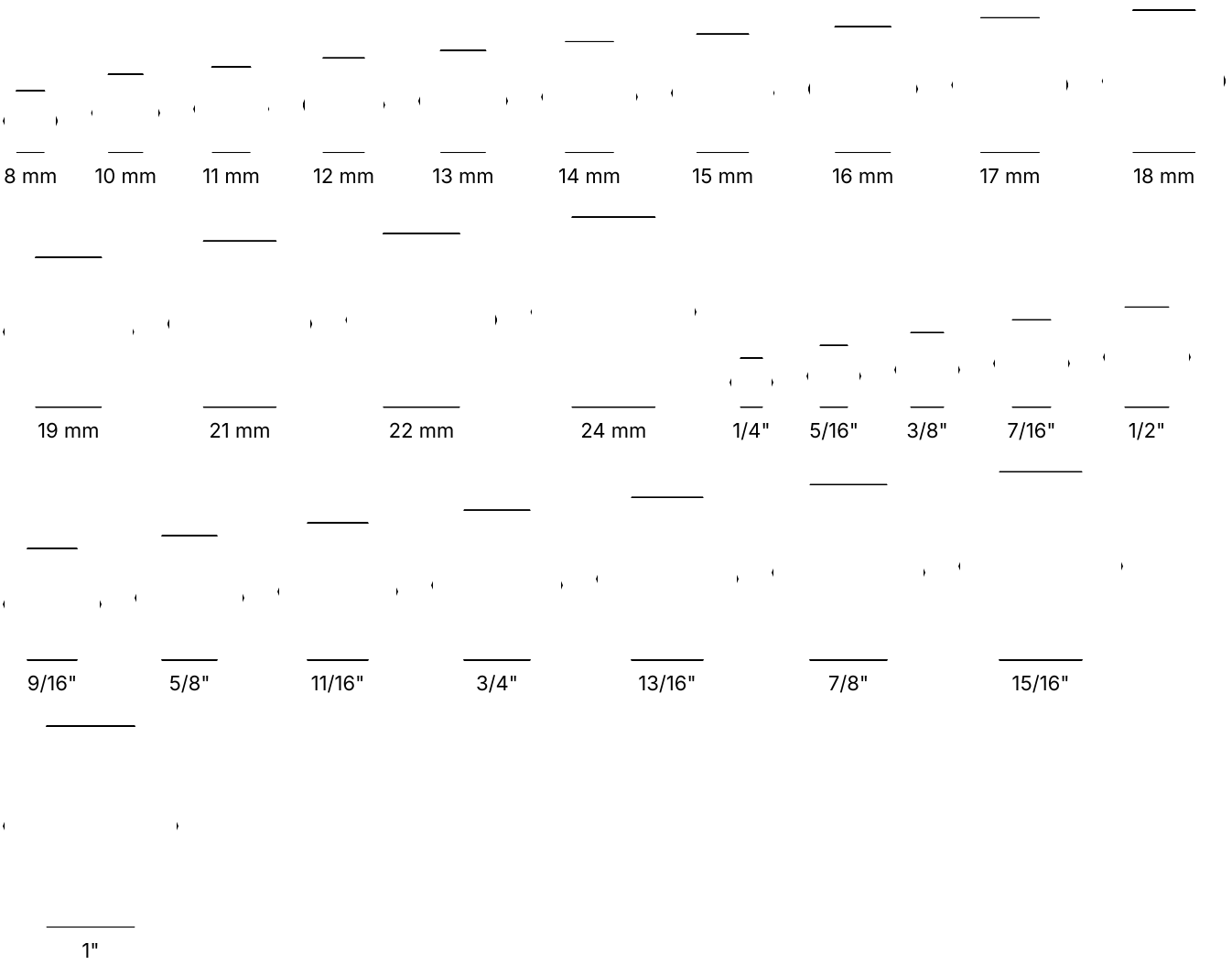
Metric size	Decimal (in)	Nearest SAE socket	Typical ISO bolt it fits
6 mm	0.2362	1/4" (+0.35 mm)	—
7 mm	0.2756	1/4" (-0.65 mm)	M4
8 mm	0.3150	5/16" (-0.06 mm)	M5
9 mm	0.3543	3/8" (+0.52 mm)	—
10 mm	0.3937	3/8" (-0.48 mm)	M6
11 mm	0.4331	7/16" (+0.11 mm)	—
12 mm	0.4724	1/2" (+0.70 mm)	—
13 mm	0.5118	1/2" (-0.30 mm)	M8

Metric size	Decimal (in)	Nearest SAE socket	Typical ISO bolt it fits
16 mm	0.6299	5/8" (-0.12 mm)	M10
17 mm	0.6693	11/16" (+0.46 mm)	—
18 mm	0.7087	11/16" (-0.54 mm)	M12
19 mm	0.7480	3/4" (+0.05 mm)	—
20 mm	0.7874	13/16" (+0.64 mm)	—
21 mm	0.8268	13/16" (-0.36 mm)	M14
22 mm	0.8661	7/8" (+0.22 mm)	—
23 mm	0.9055	7/8" (-0.78 mm)	—

Metric size	Decimal (in)	Nearest SAE socket	Typical ISO bolt it fits
27 mm	1.0630	1-1/16" (-0.01 mm)	M18
28 mm	1.1024	1-1/8" (+0.57 mm)	—
29 mm	1.1417	1-1/8" (-0.43 mm)	—
30 mm	1.1811	1-3/16" (+0.16 mm)	M20
31 mm	1.2205	1-1/4" (+0.75 mm)	—
32 mm	1.2598	1-1/4" (-0.25 mm)	—

True-size hex outlines

Print at 100% (no scaling). Hold a bolt head against its outline, measuring across the flats.



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