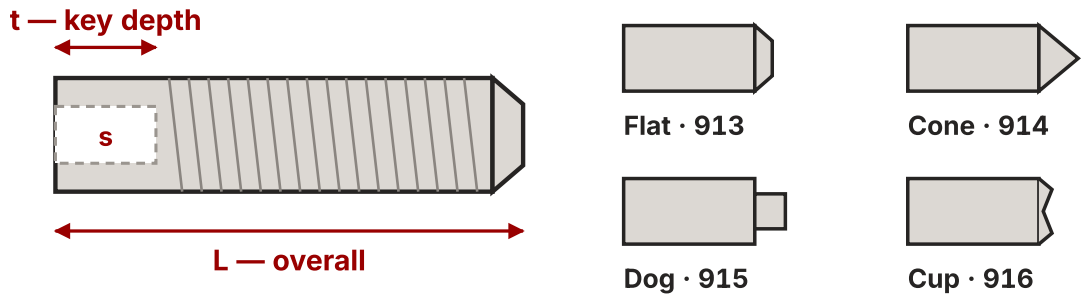
Metric Socket Set Screw Dimensions

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Hex key (Allen wrench) size, key depth and point sizes for metric socket set screws, M1.6 to M24 — flat (DIN 913), cone (DIN 914), dog (DIN 915) and cup point (DIN 916).

A metric set screw is sized by its thread — M6 is 6 mm across the thread — and measured **overall**, end to end, in millimetres. It has no head: the hex key (Allen wrench) goes into a socket in one end, and the other end is the point that bears on the shaft. All four DINs take the same hex key at the same size; they differ only in the point. DIN 913–916 match ISO 4026–4029.



Letters match the table columns: **s** hex key (socket, dashed), **t** key depth, **L** overall length. The four points on the right.

Metric socket set screws — hex key and key depth, DIN 913 / 914 / 915 / 916 (mm)

SIZE	PITCH	HEX KEY S	KEY DEPTH T MIN, SHORT SCREWS	KEY DEPTH T MIN, LONGER SCREWS
M1.6	0.35	0.7 mm	0.7	1.5
M2	0.4	0.9 mm	0.8	1.7
M2.5	0.45	1.3 mm	1.2	2
M3	0.5	1.5 mm	1.2	2
M4	0.7	2 mm	1.5	2.5
M5	0.8	2.5 mm	2	3
M6	1	3 mm	2	3.5
M8	1.25	4 mm	3	5
M10	1.5	5 mm	4	6
M12	1.75	6 mm	4.8	8
M16	2	8 mm	6.4	10
M20	2.5	10 mm	8	12
M24	3	12 mm	10	15

The same hex key for all four points. Short screws are those about as long as the thread is wide. Set screws are rated by hardness (class 45H steel), not by tensile strength.

Metric set screw points — DIN 913 / 914 / 915 / 916 (mm)

SIZE	FLAT DIA MAX (913)	CONE TIP MAX (914)	DOG DIA MAX (915)	DOG Z (SHORT / LONG)	SHORT DOG TO L	CUP DIA MAX (916)
M1.6	0.8	—	0.8	0.4–0.65 / 0.8 min	2.5	0.8
M2	1	—	1	0.5 min / 1–1.25	3	1

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SIZE	FLAT DIA MAX (913)	CONE TIP MAX (914)	DOG DIA MAX (915)	DOG Z (SHORT / LONG)	SHORT DOG TO L	CUP DIA MAX (916)
M2.5	1.5	—	1.5	0.63–0.88 / 1.25–1.5	4	1.2
M3	2	sharp	2	0.75–1 / 1.5–1.75	5	1.4
M4	2.5	sharp	2.5	1–1.25 / 2–2.25	6	2
M5	3.5	sharp	3.5	1.25–1.5 / 2.5–2.75	6	2.5
M6	4	1.5	4	1.5–1.75 / 3–3.25	8	3
M8	5.5	2	5.5	2–2.25 / 4–4.3	10	5
M10	7	2.5	7	2.5–2.75 / 5–5.3	12	6
M12	8.5	3	8.5	3–3.25 / 6–6.3	16	8
M16	12	—	12	4–4.3 / 8–8.36	20	10
M20	15	—	15	5–5.3 / 10–10.36	25	14
M24	18	—	18	6–6.3 / 12–12.43	30	16

Dog length: a dog point screw up to “short dog to L” has the short dog; longer ones the long dog. A dash: our two sources differ, or only one lists it — give us a call.

Good to know

Cup point is the everyday choice — its edge bites into the shaft. Flat point for parts you adjust often or a shaft with a flat; dog point to sit in a hole or slot in the shaft; cone point to locate in a drilled spot. Inch set screws are on the set screw chart; metric thread pitches on the metric thread pitch chart.

Quick answers

What size Allen key fits an M6 set screw?

A **3 mm** hex key — the same for flat, cone, dog and cup point (DIN 913 / 914 / 915 / 916).

What hex key goes with each metric set screw?

M1.6 – 0.7 mm, M2 – 0.9 mm, M2.5 – 1.3 mm, M3 – 1.5 mm, M4 – 2 mm, M5 – 2.5 mm, M6 – 3 mm, M8 – 4 mm, M10 – 5 mm, M12 – 6 mm, M16 – 8 mm, M20 – 10 mm, M24 – 12 mm.

How big is the cup on an M8 cup point set screw?

5 mm across, maximum (DIN 916).

How deep does the hex key go in an M10 set screw?

At least 4 mm in a short screw, 6 mm in a longer one.

How is a metric set screw measured?

Overall, end to end, in millimetres; the size is the thread (M6 = 6 mm).

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