

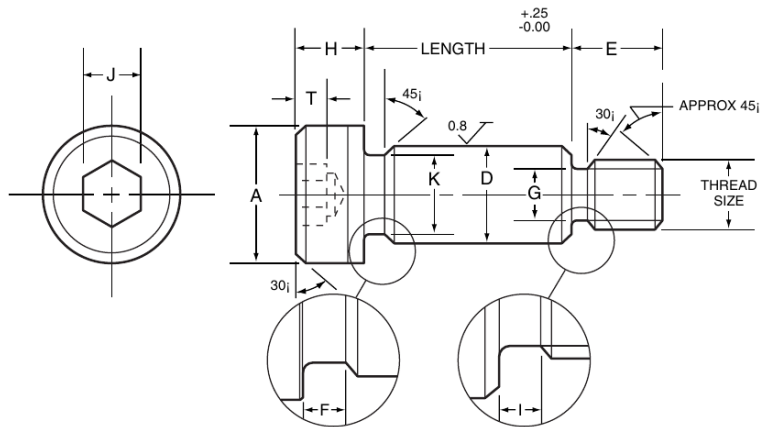
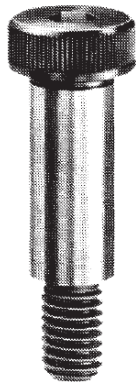
SHOULDER SCREWS / METRIC SERIES

Metric Socket Head Shoulder Screws

ברגי כתף אלן מטריים

ISO 7379

APPROVED / 16.09.2026



DIMENSIONS / mm

Body nom.	Thread	Pitch	A max.	T min.	D max.	D min.	K min.	H max.	G min.	F max.	I max.	E max.	J nom.
6	M5	0.8	10.00	2.4	6.0	5.982	5.42	4.50	3.68	2.5	2.40	9.75	3
8	M6	1.0	13.00	3.3	8.0	7.978	7.42	5.50	4.40	2.5	2.60	11.25	4
10	M8	1.25	16.00	4.2	10.0	9.978	9.42	7.00	6.03	2.5	2.80	13.25	5
12	M10	1.5	18.00	4.9	12.0	11.973	11.42	8.00	7.69	2.5	3.00	16.40	6
16	M12	1.75	24.00	6.6	16.0	15.973	15.42	10.00	9.35	2.5	4.00	18.40	8
20	M16	2.0	30.00	8.8	20.0	19.967	19.42	14.00	12.96	2.5	4.80	22.40	10
24	M20	2.5	36.00	10.0	24.0	23.967	23.42	16.00	16.30	3.0	5.60	27.40	12

Symbols match the drawing. max. maximum; min. minimum; nom. nominal. Body nominal size is the shoulder diameter, not the thread size.

Shoulder diameter tolerance h8 (ISO R 286). Length tolerance in drawing: +0.25 / -0.00 mm.

Reference scope: Supplier-specific data only. ISO 7379, ANSI B18.3.3M and DIN 9841 are listed as similar specifications; this is not a declaration of full standard conformity or a specification for every Metal-Ad item.

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MECHANICAL & GEOMETRIC REQUIREMENTS

Hardness: Rc 36-43

Tensile stress: 1100 MPa based on minimum thread neck area (G min.).

Shear stress: 660 MPa

Threads: ANSI B1.13M; ISO 262. Thread class: 4g 6g.

Concentricity - head: Body to head outside diameter within 0.15 TIR when checked in a V block.

Concentricity - thread: Body to thread pitch diameter within 0.1 TIR when checked 5 mm from the shoulder at the threaded end.

Combined geometric control: Squareness, concentricity, parallelism and bow of body to thread pitch diameter within 0.05 TIR per centimeter of body length, maximum 0.5, when seated against the shoulder in a threaded bushing and checked on the body 2.5 D from the underside of the head.

Squareness: Head bearing surface perpendicular to body axis within a maximum deviation of 2 degrees.

RECOMMENDED SEATING TORQUE / SUPPLIER GUIDANCE

Body nom.	Thread	Torque N-m	Torque in-lbs.
6	M5	7	60
8	M6	12	105
10	M8	29	255
12	M10	57	500
16	M12	100	885
20	M16	240	2125
24	M20	470	4160

Recommended seating torques are supplier guidelines only. Induced loads may vary by as much as +/-25% depending on mating interface conditions, lubrication, surface finish, hardness and bolt/joint compliance. Correct tightening significantly affects fastener performance.

Supply scope: Coating, stocked lengths and Metal-Ad supply specification are not established here. No property class is assigned on this page.