

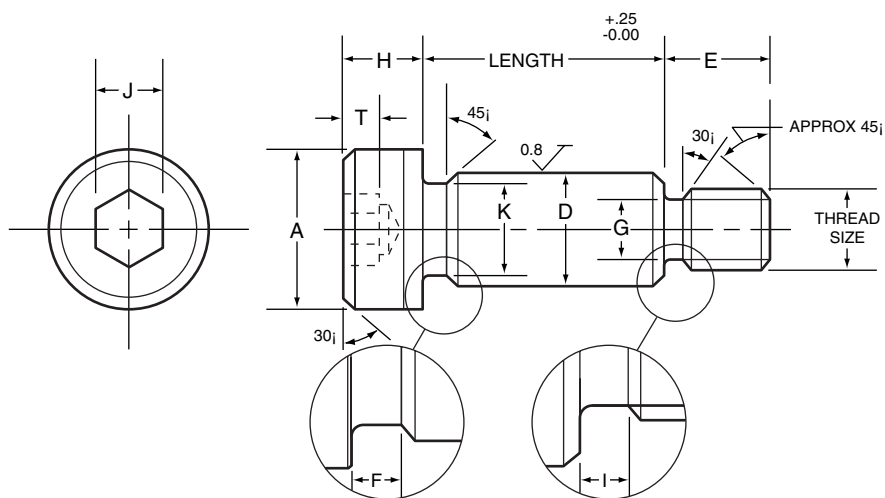
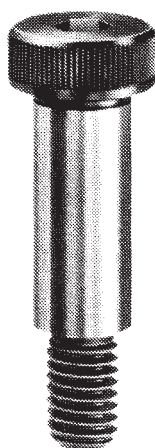
# METRIC SOCKET HEAD SHOULDER SCREWS

**Threads:** ANSI B 1.13 M, ISO 262

**Similar Specifications:** ANSI B18.3.3M, ISO 7379, DIN 9841

## NOTES

1. **Material:** ASTM A574M alloy steel
2. **Hardness:** Rc 36-43
3. **Tensile Stress:** 1100 MPa based on minimum thread neck area (G min.).
4. **Shear Stress:** 660 MPa
5. **Concentricity:** Body to head O.D. within 0.15 TIR when checked in a "V" block.  
Body to thread pitch diameter within 0.1 TIR when checked at a distance of 5mm from the shoulder at the threaded end.
- Squareness, concentricity, parallelism, and bow of body to thread pitch diameter shall be within 0.05 TIR per centimeter of body length with a maximum of 0.5 when seated against the shoulder in a threaded bushing and checked on the body at a distance of 2.5 "D" from the underside of the head.
6. **Squareness:** The bearing surface of the head shall be perpendicular to the axis of the body within a maximum deviation of 2°.
7. **Thread Class:** 4g 6g



## DIMENSIONS

## APPLICATION DATA

nom. size	thread size	pitch	A max.	T min.	D*		K min.	H max.	G min.	F max.	I max.	E max.	J nom.	recommended seating torque**	
					max.	min.								N-m	in-lbs.
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	7	60
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	12	105
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	29	255
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	57	500
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	100	885
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	240	2125
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	470	4160

All dimensions in millimeters.

\*\*See Note, page 1.

\*Shoulder diameter tolerance h8 (ISO R 286)