

# METRIC SOCKET BUTTON HEAD CAP SCREWS

## Dimensions

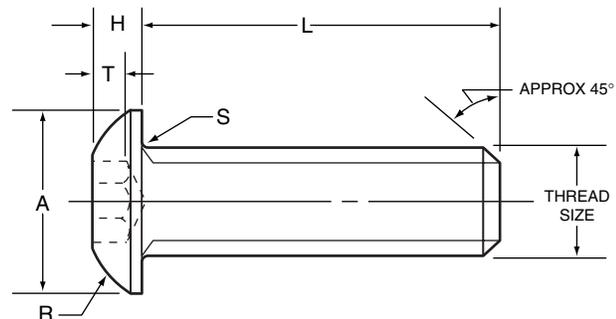
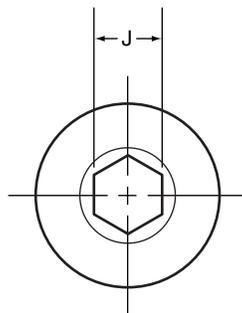
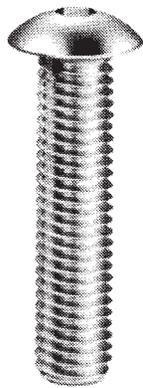
**Threads:** ANSI B1.13M, ISO 262(coarse series only)

**Similar Specifications:** ISO 7380

**General Note:** Flat, countersunk head cap screws and button head cap screws are designed and recommended for moderate fastening applications: machine guards, hinges, covers, etc. They are not suggested for use in critical high strength applications where socket head cap screws should be used.

### NOTES

- 1. Material:** ASTM F835M
- 2. Dimensions:** ANSI B18.3.4M
- 3. Property Class:** 12.9
- 4. Hardness:** Rc 38-43
- 5. Tensile Stress:** 1040 MPa
- 6. Shear Stress:** 630 MPa
- 7. Yield Stress:** 945 MPa
- 8.** Bearing surface of head square with body within 2°.
- 9. Thread Class:** 4g 6g



### LENGTH TOLERANCE

nominal screw length	nominal screw diameter
	M3 thru M16
	tolerance on lgth., mm
Up to 16 mm, incl.	±0.3
Over 16 to 60 mm, incl.	±0.5
Over 60 mm	±0.8

### DIMENSIONS

### APPLICATION DATA

nom. thread size	pitch	A max.	H max.	T min.	R ref.	S ref.	J nom.	recommended seating torque**	
								plain	
								N-m	in-lbs.
M3	0.5	5.70	1.65	1.05	2.95	.35	2.0	1.2	11
M4	0.7	7.60	2.20	1.35	4.10	.35	2.5	2.8	25
M5	0.8	9.50	2.75	1.92	5.20	.45	3.0	5.5	50
M6	1.0	10.50	3.30	2.08	5.60	.45	4.0	9.5	85
M8	1.285	14.00	4.40	2.75	7.50	.45	5.0	24.0	210
M10	1.50	18.00	5.50	3.35	10.00	.60	6.0	47.0	415
M12	1.75	21.00	6.60	4.16	11.00	.60	8.0	82.0	725
*M16	2.0	28.00	8.60	5.20	15.00	.60	10.0	205.0	1800

All dimensions in millimeters.

\*Non-stock Diameter

\*\*Torque calculated to induce 420 MPa in the screw threads.

Torque values are for plain screws. (See Note, page 1.)