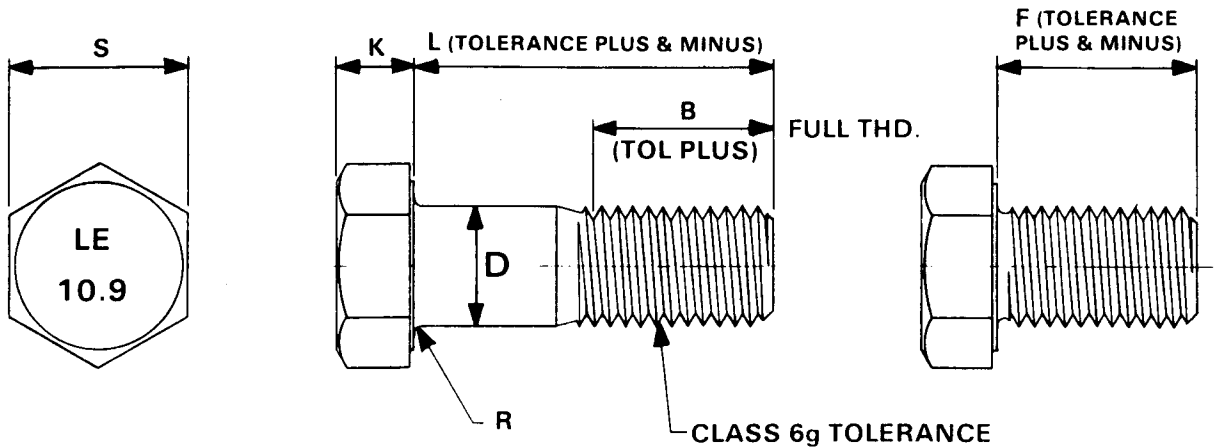





ANSI / ISO METRIC HEX CAP SCREW SPECIFICATIONS



ALL DIMENSIONS TO ANSI B18.2.3.1M

Nominal Screw Diameter & Thread Pitch	D		S		K		R	B Thread Length			F Longest Stand. Bolt Length Thd. to Head	
	BODY DIAMETER		WIDTH ACROSS FLATS		HEAD HEIGHT			FILLET RADIUS MIN.	FOR L ≤ 125	FOR L ≥ 125 ≤ 200		FOR L > 200
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.						
M6 x 1	5.82	6.00	9.78	10.00	3.85	4.15	0.3	18	24	37	25	
M8 x 1.25	7.78	8.00	12.73	13.00	5.10	5.50	0.4	22	28	41	30	
M10 x 1.5	9.78	10.00	15.73	16.00	6.17	6.63	0.4	26	32	45	35	
M12 x 1.75	11.73	12.00	17.73	18.00	7.24	7.76	0.6	30	36	49	40	
M14 x 2	13.73	14.00	20.67	21.00	8.51	9.09	0.6	34	40	53	45	
M16 x 2	15.73	16.00	23.67	24.00	9.68	10.32	0.6	38	44	57	50	
M20 x 2.5	19.67	20.00	29.16	30.00	12.12	12.88	0.8	46	52	65	60	
M24 x 3	23.67	24.00	35.00	36.00	14.56	15.44	0.8	54	60	73	75	
M30 x 3.5	29.67	30.00	45.00	46.00	17.92	19.48	1.0	66	72	85	90	

MATERIAL & MECHANICAL PROPERTIES TO SAE J1199

PROPERTY	CLASS 8.8	CLASS 9.8	CLASS 10.9
HARDNESS	Rc23-34	Rc27-36	Rc33-39
PROOF LOAD	600 MPa (87,000 PSI)	650 MPa (94,250 PSI)	830 MPa (120,350 PSI)
YIELD STRENGTH	660 MPa (95,700 PSI)	—	940 MPa (136,300 PSI)
MIN. TENSILE STRENGTH	830 MPa (120,350 PSI)	900 MPa (130,500 PSI)	1040 MPa (150,800 PSI)
HEADMARK	 BOLT SIZES M16 THRU M30	 BOLT SIZES M6 THRU M16	 BOLT SIZES M6 THRU M30