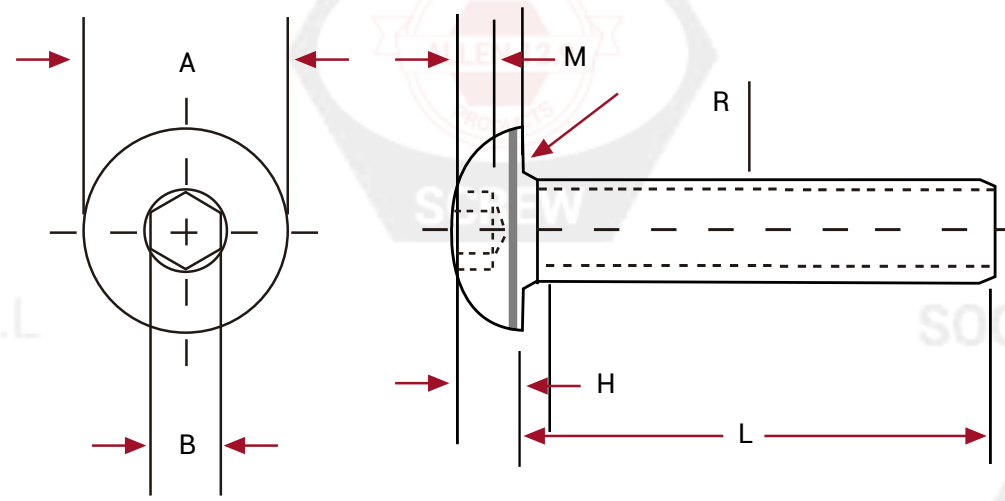


ALLEN CABEZA BOTÓN CALIDAD 12.9 MÉTRICO



Dimensiones (mm)

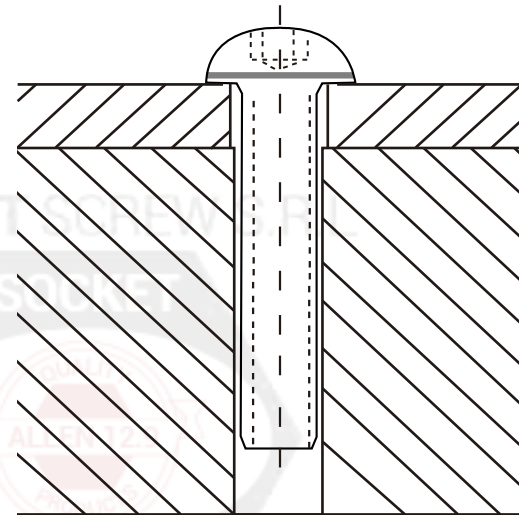
Nom. Size	A	H	B	M min.	R min.	RS Torque (NM)	
						12.9	10.9
M3	5.40 - 5.70	1.40 - 1.65	2.020 - 2.080	1.04	0.10	1.35	1.15
M4	7.24 - 7.60	1.95 - 2.20	2.520 - 2.580	1.30	0.20	3.10	2.70
M5	9.14 - 9.60	2.50 - 2.75	3.020 - 3.080	1.56	0.20	6.10	5.40
M6	10.07 - 10.50	3.00 - 3.30	4.020 - 4.095	2.08	0.25	10.5	9.15
M8	13.57 - 14.00	4.10 - 4.40	5.020 - 5.140	2.60	0.40	26.0	22.0
M10	17.07 - 17.50	5.28 - 5.50	6.020 - 6.140	3.12	0.40	52.0	44.0
M12	20.48 - 21.00	6.24 - 6.60	8.025 - 8.175	4.16	0.60	90.0	77.0
M16	27.48 - 28.00	8.44 - 8.80	10.025 - 10.175	5.20	0.60	225	190

Mechanical Properties

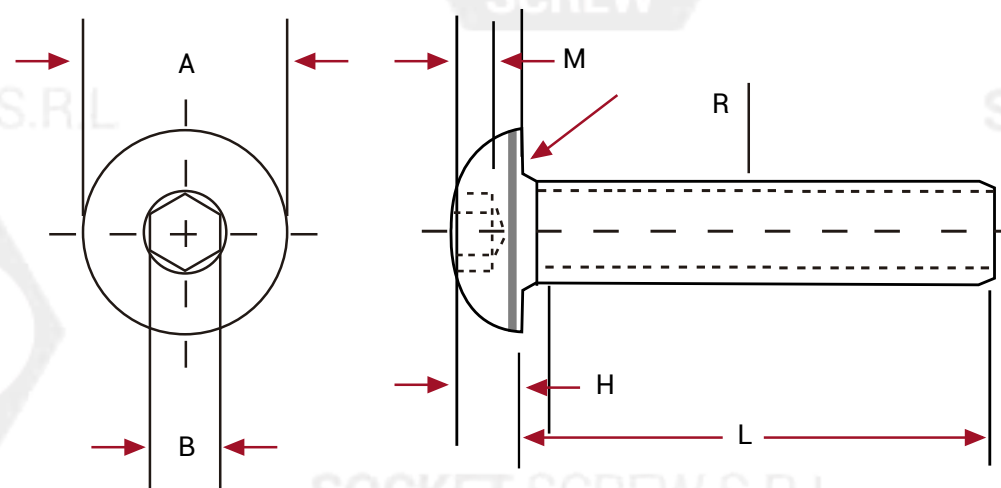
Property Class	12.9
Hardness (HRC)	39 - 44
Tensile Strength (mpa)	980 min.
Descarburization and Carburization	E=3/1H1

Typical Application Fixture

Button Socket cap screw are designed for applications that allow the head to protrude above the mating parts. The curved desing of the button head is decorative and protects adjoining parts from scrapes or the damage. The greater under head area also protects mating parts from damage. Due to the head desing these parts should not be used in critical applications where high tensile strength is required.



ALLEN CABEZA BOTÓN CALIDAD 12.9 PULGADA



Dimensiones (inch)

Nom. Size	A	H	B nom.	M min.	R min.	R.S Torque (in 1b)
#0	0.104 - 0.114	0.026 - 0.032	0.035	0.020	0.002	1.42
#1	0.129 - 0.139	0.033 - 0.039	0.050	0.028	0.003	252
#2	0.154 - 0.164	0.038 - 0.046	0.050	0.028	0.003	4.18
#3	0.176 - 0.188	0.044 - 0.052	1/6 0.062	0.035	0.004	3.33
#4	0.201 - 0.213	0.051 - 0.059	1/16 0.062	0.035	0.004	8.88
#5	0.226 - 0.238	0.058 - 0.066	5/64 0.078	0.044	0.005	13.1
#6	0.250 - 0.262	0.063 - 0.073	5/64 0.078	0.044	0.005	16.5
#8	0.298 - 0.312	0.077 - 0.087	3/32 0.094	0.052	0.006	30.1
#10	0.347 - 0.361	0.091 - 0.101	1/8 0.125	0.070	0.006	43.7
1/4	0.419 - 0.437	0.122 - 0.132	5/32 0.156	0.087	0.007	104
5/16	0.527 - 0.547	0.152 - 0.166	3/16 0.188	0.105	0.009	215
3/8	0.636 - 0.656	0.185 - 0.199	7/32 0.219	0.122	0.012	382
1/2	0.851 - 0.875	0.145 - 0.265	5/16 0.312	0.175	0.016	931
5/8	0.970 - 1.000	0.311 - 0.331	3/8 0.375	0.210	0.021	1722

Mechanical Properties

Nom Size D	D > 1/2
Hardness (HRC)	37 - 44
Tensile Strength (psi)	135,000 min
Descarburization and Carburization	E=3/4H1

Nom. Length	Nom. Size. Tolerance on Length	
	#0 Thru 3/8, incl.	1/2 Thru 5/8, incl.
Up to 1.000 incl.	-0.03	-0.03
Over 1.00 to 2.00 incl.	-0.04	-0.06
Over 2.00	-0.04	-0.06

Typical Application Fixture

Button Socket cap screw are designed for applications that allow the head to protrude above the mating parts. The curved desing of the button head is decorative and protects adjoining parts from scrapes or the damage. The greater under head area also protects mating parts from damage. Due to the head desing these parts should not be used in critical applications where high tensile strength is required.

