



GST NO.: 29AHZPU5620Q1ZZ

An ISO 9001:2015 Certified Company

ROYAL INDUSTRIAL SUPPLIERS

QUALITY FASTENERS SPECIALIST



8310165941 / 9959457863



sales@royalfastenersindia.com



www.royalfastenersindia.com



TECHNICAL DATA SHEET

ULTRA LOW-PROFILE ALLEN HEAD SCREW



MATERIAL- STAINLESS STEEL

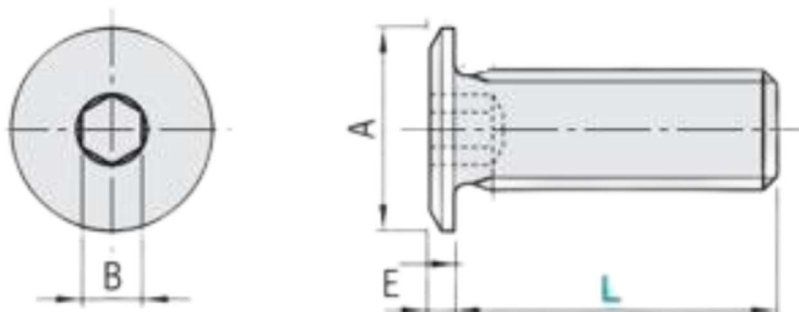
GRADE-SS316 (A4-70)

AS PER-NON-STANDARD

CATALOGUE NO. R6C85

INSTALLATION GUIDE

- VERIFY THE SCREW SIZE, THREAD PITCH, LENGTH, AND HEAD DIMENSIONS MATCH THE APPLICATION REQUIREMENT.
- INSPECT THE SCREW FOR THREAD DAMAGE, HEAD DEFORMATION, OR SURFACE DEFECTS BEFORE INSTALLATION.
- ENSURE THE MATING THREADED HOLE OR NUT IS CLEAN, PROPERLY ALIGNED, AND FREE FROM BURRS OR DEBRIS.
- CHECK THAT THE LOW HEAD DESIGN PROVIDES SUFFICIENT CLEARANCE FOR THE APPLICATION.
- ALIGN THE COMPONENTS AND INSERT THE SCREW THROUGH THE MOUNTING HOLE.
- START THREADING THE SCREW BY HAND TO PREVENT CROSS-THREADING.
- USE THE CORRECT SIZE ALLEN KEY OR HEX DRIVER FOR FULL ENGAGEMENT WITH THE SOCKET.
- TIGHTEN THE SCREW GRADUALLY WHILE MAINTAINING PROPER COMPONENT ALIGNMENT.
- APPLY THE SPECIFIED TORQUE USING A CALIBRATED TORQUE WRENCH OR SUITABLE TOOL.
- ENSURE THE ULTRA LOW-PROFILE HEAD SITS FLUSH AND EVENLY AGAINST THE MATING SURFACE.
- DO NOT OVERTIGHTEN, AS THE LOW-PROFILE HEAD HAS A REDUCED DRIVE DEPTH AND MAY BE DAMAGED.
- VERIFY THAT THE SCREW IS FULLY SEATED AND PROVIDES THE REQUIRED CLAMPING FORCE.
- CHECK THAT THERE IS NO MOVEMENT OR MISALIGNMENT BETWEEN THE ASSEMBLED COMPONENTS.
- INSPECT THE FINAL ASSEMBLY FOR PROPER SEATING, ALIGNMENT, AND SECURE FASTENING.
- RE-TIGHTEN IF REQUIRED AFTER INITIAL LOADING OR AS PER MAINTENANCE SPECIFICATIONS.



Parameter↓ Size→		M2x0.4	M2.5x0.45	M3x0.5	M4x0.7	M5x0.8	M6x1.0	M8x1.25
Head Diameter dk	Max	4.10	6.10	7.10	8.10	9.10	12.20	14.20
	Min	0.50	0.60	0.80	0.90	1.00	1.30	2.30
Head Thickness k	Max	0.75	0.90	1.10	1.20	1.20	1.70	2.60
	Min	0.75	0.90	1.10	1.20	1.20	1.70	2.60
Tool Size		1.5 mm	1.5 mm	2 mm	2.5 mm	2.5 mm	3 mm	5 mm
Suggested Tightening Torque		0.10	0.20	0.40	1.00	2.30	3.80	8.00

Quote the PART NUMBER given below with your order/ inquiries:

All Dimensions in mm

Dia → Length ↓	M2x0.4	M2.5x0.45	M3x0.5	M4x0.7	M5x0.8	M6x1.0	M8x1.25
3	R6C8502003	R6C8520503					
4	R6C8502004	R6C8520504	R6C8503004				
5	R6C8502005	R6C8520505	R6C8503005	R6C8504005			
6	R6C8502006	R6C8520506	R6C8503006	R6C8504006	R6C8505006		
8	R6C8502008	R6C8520508	R6C8503008	R6C8504008	R6C8505008	R6C8506008	
10	R6C8502010	R6C8520510	R6C8503010	R6C8504010	R6C8505010	R6C8506010	R6C8508010
12	R6C8502012	R6C8520512	R6C8503012	R6C8504012	R6C8505012	R6C8506012	R6C8508012
14	R6C8502014	R6C8520514	R6C8503014	R6C8504014	R6C8505014	R6C8506014	R6C8508014
16	R6C8502016	R6C8520516	R6C8503016	R6C8504016	R6C8505016	R6C8506016	R6C8508016
18	R6C8502018	R6C8520518	R6C8503018	R6C8504018	R6C8505018	R6C8506018	R6C8508018
20	R6C8502020	R6C8520520	R6C8503020	R6C8504020	R6C8505020	R6C8506020	R6C8508020
22	R6C8502022	R6C8520522	R6C8503022	R6C8504022	R6C8505022	R6C8506022	R6C8508022
25	R6C8502025	R6C8520525	R6C8503025	R6C8504025	R6C8505025	R6C8506025	R6C8508025
30		R6C8520530	R6C8503030	R6C8504030	R6C8505030	R6C8506030	R6C8508030
35			R6C8503035	R6C8504035	R6C8505035	R6C8506035	R6C8508035
40			R6C8503040	R6C8504040	R6C8505040	R6C8506040	R6C8508040
45				R6C8504045	R6C8505045	R6C8506045	R6C8508045
50				R6C8504050	R6C8505050	R6C8506050	R6C8508050

Sizes in BLUE are non-preferred. Availability is limited and MOQ is applied

Data is strictly informative

Note: All Austenitic Stainless-Steel Fasteners may exhibit some Magnetic Properties due to the Manufacturing Process.

Refer: ISO 3506-2 Annex F