



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

ALLEN SOCKET HEAD CAP SCREW (SHCS)



MATERIAL- STAINLESS STEEL

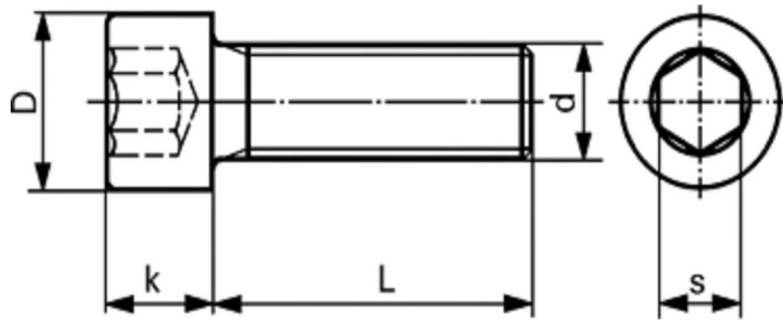
GRADE-SS316 (A4-70)

AS PER-ASME B18.3-1

CATALOGUE NO. R6C39u

INSTALLATION GUIDE

- SELECT THE CORRECT SIZE OF ALLEN SHCS SCREW AND MATCHING ALLEN KEY/HEX WRENCH.
- CHECK THAT THE MATING HOLE OR THREAD IS CLEAN AND FREE FROM DUST, OIL, OR DEBRIS.
- POSITION THE COMPONENTS TO BE FASTENED IN PROPER ALIGNMENT.
- INSERT THE ALLEN SHCS SCREW INTO THE HOLE OR THREAD BY HAND TO AVOID CROSS THREADING.
- USE THE ALLEN KEY/HEX WRENCH TO TURN THE SCREW CLOCKWISE AND BEGIN TIGHTENING.
- APPLY STEADY FORCE TO ENSURE THE SCREW SEATS EVENLY WITHOUT DAMAGING THE SOCKET.
- DO NOT OVERTIGHTEN TO PREVENT THREAD DAMAGE OR MATERIAL DISTORTION.
- USE A TORQUE WRENCH IF SPECIFIC TORQUE REQUIREMENTS ARE PROVIDED.
- FOR HIGH-STRENGTH OR VIBRATION APPLICATIONS, USE WASHERS OR THREAD LOCKING COMPOUNDS AS NEEDED.
- VERIFY THAT THE ALLEN SHCS SCREW IS FIRMLY SECURED AND FLUSH WITH THE SURFACE.



UNC SERIES

Note: Head may be plain or knurled

THREAD CLASS 2A

Dim ↓ Size →	#2-56	#4-40	#6-32	#8-32	#10-24	1/4-20	
Head Dia D	max	0.140	0.183	0.226	0.270	0.312	0.375
	min	0.134	0.176	0.218	0.262	0.303	0.365
Major Dia d	max	0.086	0.112	0.138	0.164	0.190	0.250
	min	0.0822	0.1075	0.1329	0.1585	0.1840	0.2435
Head Height k	max	0.086	0.112	0.138	0.164	0.190	0.250
	min	0.083	0.108	0.134	0.159	0.185	0.244
Socket s	0.078	0.094	0.109	0.141	0.156	0.188	
Key Size	5/64	3/32	7/64	9/64	5/32	3/16	

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

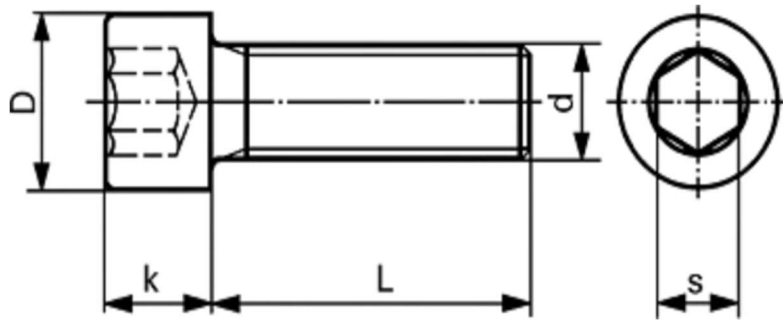
All Dimensions in mm

Size → Length ↓	#2-56	#4-40	#6-32	#8-32	#10-24	1/4-20
3/16"	R6C39u25648	R6C39u44048				
1/4"	R6C39u25662	R6C39u44062	R6C39u63262	R6C39u83262		
5/16"	R6C39u25679	R6C39u44079	R6C39u63279	R6C39u83279	R6C39u12479	R6C39u62079
3/8"	R6C39u25691	R6C39u44091	R6C39u63291	R6C39u83291	R6C39u12491	R6C39u62019
1/2"	R6C39u25613	R6C39u44013	R6C39u63213	R6C39u83213	R6C39u12413	R6C39u62013
5/8"	R6C39u25615	R6C39u44015	R6C39u63215	R6C39u83215	R6C39u12415	R6C39u62015
3/4"	R6C39u25619	R6C39u44019	R6C39u63219	R6C39u83219	R6C39u12419	R6C39u62019
7/8"	R6C39u25623	R6C39u44023	R6C39u63223	R6C39u83223	R6C39u12423	R6C39u62023
1"	R6C39u25625	R6C39u44025	R6C39u63225	R6C39u83225	R6C39u12425	R6C39u62025
1-1/4"		R6C39u44031	R6C39u63231	R6C39u83231	R6C39u12431	R6C39u62031
1-1/2"		R6C39u44038	R6C39u63238	R6C39u83238	R6C39u12438	R6C39u62038
1-3/4"		R6C39u44044	R6C39u63244	R6C39u83244	R6C39u12444	R6C39u62044
2"		R6C39u44051	R6C39u63251	R6C39u83251	R6C39u12451	R6C39u62051
2-1/2"						R6C39u62063
3"						R6C39u62076
3-1/2"						R6C39u62089
4"						R6C39u62102

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



UNC SERIES

Note: Head may be plain or knurled

THREAD CLASS 2A

Dim ↓ Size →		5/16-18	3/8-16	7/16-14	1/2-13	5/8-11	3/4-10
Head Dia D	max	0.469	0.562	0.656	0.750	0.938	1.125
	min	0.457	0.550	0.642	0.735	0.921	1.107
Major Dia d	max	0.3125	0.375	0.4375	0.500	0.625	0.750
	min	0.3053	0.3678	0.4294	0.4919	0.6163	0.7406
Head Height k	max	0.312	0.375	0.437	0.500	0.625	0.750
	min	0.306	0.368	0.430	0.492	0.616	0.740
Socket s		0.250	0.312	0.375	0.375	0.500	0.625
Key Size		1/4	5/16	3/8	3/8	1/2	5/8

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

All Dimensions in mm

Size → Length ↓	5/16-18	3/8-16	7/16-14	1/2-13	5/8-11	3/4-10
3/8"	R6C39u79019					
1/2"	R6C39u79013	R6C39u91013	R6C39u11013			
5/8"	R6C39u79015	R6C39u91015	R6C39u11015	R6C39u13015		
3/4"	R6C39u79019	R6C39u91019	R6C39u11019	R6C39u13019		
7/8"	R6C39u79023	R6C39u91023	R6C39u11023	R6C39u13023		
1"	R6C39u79025	R6C39u91025	R6C39u11025	R6C39u13025	R6C39u15025	R6C39u19025
1-1/4"	R6C39u79031	R6C39u91031	R6C39u11031	R6C39u13031	R6C39u15031	R6C39u19031
1-1/2"	R6C39u79038	R6C39u91038	R6C39u11038	R6C39u13038	R6C39u15038	R6C39u19038
1-3/4"	R6C39u79044	R6C39u91044	R6C39u11044	R6C39u13044	R6C39u15044	R6C39u19044
2"	R6C39u79051	R6C39u91051	R6C39u11051	R6C39u13051	R6C39u15051	R6C39u19051
2-1/4"	R6C39u79056	R6C39u91056	R6C39u11056	R6C39u13056	R6C39u15056	R6C39u19056
2-1/2"	R6C39u79063	R6C39u91063	R6C39u11063	R6C39u13063	R6C39u15063	R6C39u19063
3"	R6C39u79076	R6C39u91076	R6C39u11076	R6C39u13076	R6C39u15076	R6C39u19076
3-1/2"	R6C39u79089	R6C39u91089	R6C39u11089	R6C39u13089	R6C39u15089	R6C39u19089
4"	R6C39u79102	R6C39u91102	R6C39u11102	R6C39u13102	R6C39u15102	R6C39u19102
5"	R6C39u79126	R6C39u91126	R6C39u11126	R6C39u13126	R6C39u15126	R6C39u19126

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