



GST NO.: 29AHZPU5620Q1ZZ

An ISO 9001:2015 Certified Company

ROYAL INDUSTRIAL SUPPLIERS

QUALITY FASTENERS SPECIALIST



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TECHNICAL DATA SHEET

CARRIAGE BOLT



MATERIAL- STAINLESS STEEL

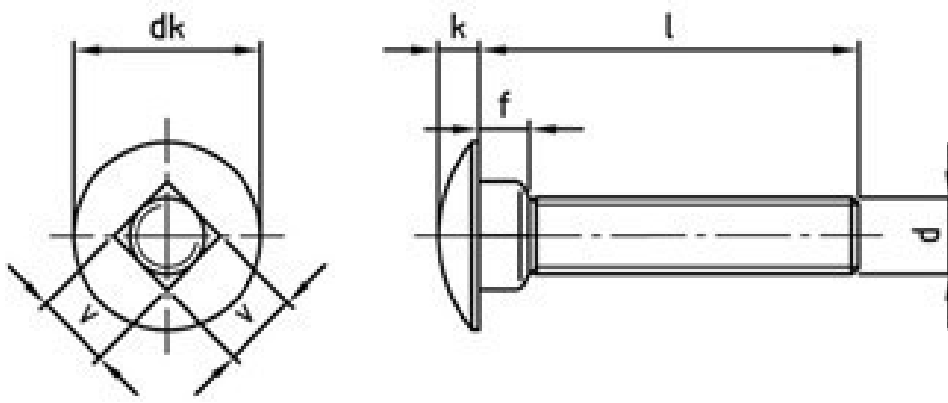
GRADE-SS304 (A2-70)

AS PER-DIN-603

CATALOGUE NO. R4G69

INSTALLATION GUIDE

- VERIFY THE BOLT SIZE, LENGTH, THREAD PITCH, AND SQUARE NECK DIMENSIONS MATCH THE APPLICATION REQUIREMENT.
- INSPECT THE CARRIAGE BOLT FOR THREAD DAMAGE, CORROSION, OR SURFACE DEFECTS BEFORE INSTALLATION.
- ENSURE THE MATING HOLES ARE CORRECTLY SIZED, ALIGNED, AND FREE FROM BURRS OR DEBRIS.
- CHECK THAT THE SQUARE NECK CAN PROPERLY ENGAGE WITH THE MOUNTING HOLE OR MATERIAL.
- ALIGN THE COMPONENTS AND INSERT THE CARRIAGE BOLT THROUGH THE HOLES.
- ENSURE THE SQUARE NECK IS FULLY SEATED IN THE MATERIAL TO PREVENT BOLT ROTATION.
- PLACE THE REQUIRED WASHER AND NUT ON THE THREADED END OF THE BOLT.
- THREAD THE NUT ONTO THE BOLT BY HAND TO PREVENT CROSS-THREADING.
- USE THE APPROPRIATE SPANNER OR SOCKET TO TIGHTEN THE NUT.
- APPLY TIGHTENING FORCE GRADUALLY WHILE MAINTAINING COMPONENT ALIGNMENT.
- TIGHTEN THE ASSEMBLY TO THE SPECIFIED TORQUE VALUE.
- ENSURE THE ROUND HEAD SITS FLUSH AGAINST THE SURFACE AFTER INSTALLATION.
- DO NOT OVERTIGHTEN, AS THIS MAY DAMAGE THE MATERIAL OR THREADS.
- VERIFY THAT THE BOLT IS SECURE AND THE SQUARE NECK REMAINS ENGAGED.
- INSPECT THE FINAL ASSEMBLY FOR PROPER SEATING, ALIGNMENT, AND CLAMPING FORCE.



Size→ Parameter↓	M5x0.8	M6x1.0	M8x1.25	M10x1.5	M12x1.75	M16x2.0
dk max	13.55	16.55	20.65	24.65	30.65	38.80
dk min	12.45	15.45	19.35	23.35	29.35	37.20
k max	3.30	3.88	4.88	5.38	6.95	8.95
k min	2.70	3.12	4.12	4.62	6.05	8.05
f max	4.10	4.60	5.60	6.60	8.75	12.90
f min	2.90	3.40	4.40	5.40	7.25	11.10
v max	5.48	6.48	8.58	10.58	12.70	16.70
b I < 125	16.00	18.00	22.00	26.00	30.00	38.00
b 125 < I < 200	22.00	24.00	28.00	32.00	36.00	44.00
b over 200	-	-	-	45.00	49.00	57.00

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

All Dimensions in mm

Length↓ Size→	M5x0.8	M6x1.0	M8x1.25	M10x1.5	M12x1.75	M16x2.0
12	R4G6905012	R4G6906012	R4G6908012			
16	R4G6905016	R4G6906016	R4G6908016	R4G6910016		
18	R4G6905018	R4G6906018	R4G6908018			
20	R4G6905020	R4G6906020	R4G6908020	R4G6910020	R4G6912020	
25	R4G6905025	R4G6906025	R4G6908025	R4G6910025	R4G6912025	R4G6916025
30	R4G6905030	R4G6906030	R4G6908030	R4G6910030	R4G6912030	R4G6916030
35	R4G6905035	R4G6906035	R4G6908035	R4G6910035	R4G6912035	R4G6916035
40	R4G6905040	R4G6906040	R4G6908040	R4G6910040	R4G6912040	R4G6916040
45	R4G6905045	R4G6906045	R4G6908045	R4G6910045	R4G6912045	R4G6916045
50	R4G6905050	R4G6906050	R4G6908050	R4G6910050	R4G6912050	R4G6916050
55	R4G6905055	R4G6906055	R4G6908055	R4G6910055	R4G6912055	R4G6916055
60	R4G6905060	R4G6906060	R4G6908060	R4G6910060	R4G6912060	R4G6916060
65	R4G6905065	R4G6906065	R4G6908065	R4G6910065	R4G6912065	R4G6916065
70	R4G6905070	R4G6906070	R4G6908070	R4G6910070	R4G6912070	R4G6916070
75	R4G6905075	R4G6906075	R4G6908075	R4G6910075	R4G6912075	R4G6916075
80	R4G6905080	R4G6906080	R4G6908080	R4G6910080	R4G6912080	R4G6916080
90	R4G6905090	R4G6906090	R4G6908090	R4G6910090	R4G6912090	R4G6916090
100	R4G6905100	R4G6906100	R4G6908100	R4G6910100	R4G6912100	R4G6916100
110	R4G6905110	R4G6906110	R4G6908110	R4G6910110	R4G6912110	R4G6916110
120	R4G6905120	R4G6906120	R4G6908120	R4G6910120	R4G6912120	R4G6916120
130		R4G6906130	R4G6908130	R4G6910130	R4G6912130	R4G6916130
140		R4G6906140	R4G6908140	R4G6910140	R4G6912140	R4G6916140
150		R4G6906150	R4G6908150	R4G6910150	R4G6912150	R4G6916150
160			R4G6908160	R4G6910160	R4G6912160	R4G6916160

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