



GST NO.: 29AHZPU5620Q1ZZ

An ISO 9001:2015 Certified Company

ROYAL INDUSTRIAL SUPPLIERS

QUALITY FASTENERS SPECIALIST



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TECHNICAL DATA SHEET

SELF CLINCHING NUT (CLS)



MATERIAL- STAINLESS STEEL

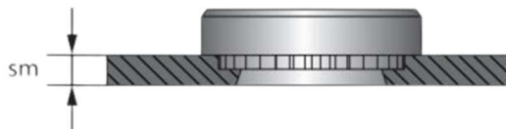
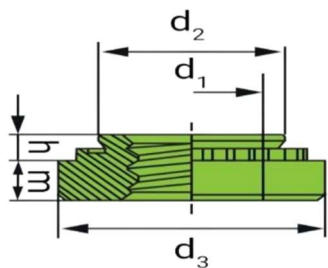
GRADE-SS304 (A2)

AS PER-NON-STANDARD

CATALOGUE NO. R4S15

INSTALLATION GUIDE

- VERIFY THE NUT SIZE, THREAD TYPE, AND MATERIAL MATCH THE APPLICATION REQUIREMENT.
- ENSURE THE BASE MATERIAL IS DUCTILE AND SUITABLE FOR SELF CLINCHING INSTALLATION.
- PUNCH OR DRILL THE MOUNTING HOLE TO THE SPECIFIED DIAMETER AND TOLERANCE.
- CONFIRM THE HOLE IS ROUND, CLEAN, AND FREE FROM BURRS OR CONTAMINATION.
- INSERT THE SELF CLINCHING NUT INTO THE HOLE FROM THE CORRECT INSTALLATION SIDE.
- ENSURE THE NUT HEAD OR FLANGE IS FLUSH AGAINST THE BASE MATERIAL SURFACE.
- USE A FLAT, PARALLEL PRESS TOOL OR HYDRAULIC PRESS FOR INSTALLATION.
- APPLY STEADY, AXIAL PRESS FORCE WITHOUT ROTATION.
- ALLOW THE BASE MATERIAL TO FLOW INTO THE NUT'S UNDERCUT GROOVE.
- DO NOT HAMMER OR APPLY IMPACT FORCE DURING INSTALLATION.
- VERIFY THE NUT IS FULLY SEATED AND FLUSH WITH THE MATERIAL SURFACE.
- CHECK THAT THE NUT DOES NOT SPIN OR PULL OUT AFTER INSTALLATION.
- AVOID OVER-PRESSING TO PREVENT PANEL DISTORTION OR THREAD DAMAGE.
- ENSURE THREADS ARE CLEAR AND UNDAMAGED AFTER INSTALLATION.
- INSPECT THE FINAL ASSEMBLY FOR ALIGNMENT, HOLDING STRENGTH, AND SURFACE FLATNESS.



Dimension↓ Size→	Tol	M2x0.4	M2.5x0.45	M3x0.5	M3.5x0.6	M4x0.7	M5x0.8	M6x1.0	M8x1.25	M10x1.5	M12x1.25
Collar dia d2	max	4.22	4.22	4.22	4.73	5.38	6.38	8.72	10.47	13.97	16.95
Nut dia d3	±0.25	6.25	6.35	6.35	7.10	7.87	8.64	11.18	12.70	17.35	20.57
Nut thickness m	±0.25	1.50	1.50	1.50	1.50	2.00	2.00	4.08	5.47	7.48	8.50
Hole Size in Sheet	+0.08	4.25	4.25	4.25	4.75	5.40	6.40	8.75	10.50	14.00	17.00
Minimum edge distance to hole centre		4.80	4.80	4.80	5.60	6.90	7.10	8.60	9.70	13.50	16.00

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

All Dimensions in mm

Size	Shank Code	Item Code	Min Sheet Thickness sm	h (Shank) Max	Press In KN		Push out N		Torque out Nm	
					Aluminium	Steel	Aluminium	Steel	Aluminium	Steel
M2x0.4	0	R4S1502000	0.80	0.77	6.7 - 8.9	11.2 - 15.6	280	470	0.90	1.47
	1	R4S1502001	1.00	0.97			400	550	1.13	1.70
	2	R4S1502002	1.40	1.38			750	980	1.47	1.90
M2.5x0.45	0	R4S1520500	0.80	0.77	6.7 - 8.9	11.2 - 15.6	280	470	0.90	1.47
	1	R4S1520501	1.00	0.97			400	550	1.13	1.70
	2	R4S1520502	1.40	1.38			750	1010	1.47	1.90
M3x0.5	0	R4S1503000	0.80	0.77	6.7 - 8.9	11.2 - 15.6	280	470	0.90	1.47
	1	R4S1503001	1.00	0.97			400	550	1.13	1.70
	2	R4S1503002	1.40	1.38			600	900	1.47	1.90
	3	R4S1503003	2.30	2.21			700	1010	1.55	2.00
M3.5x0.6	0	R4S1530500	0.80	0.77	11.2 - 13.4	13 - 26	280	490	1.80	2.30
	1	R4S1530501	1.00	0.97			400	570	2.30	2.71
	2	R4S1530502	1.40	1.38			800	1080	2.60	3.20
M4x0.7	0	R4S1504000	0.80	0.77	11.2 - 13.4	18 - 27	300	490	2.37	2.95
	1	R4S1504001	1.00	0.97			470	645	2.60	3.80
	2	R4S1504002	1.40	1.38			970	1250	4.00	4.20
	3	R4S1504003	2.30	2.21			1000	1300	4.10	4.50
M5x0.8	0	R4S1505000	0.80	0.77	11.2 - 15.6	18 - 38	300	530	3.00	3.60
	1	R4S1505001	1.00	0.97			480	800	3.60	4.50
	2	R4S1505002	1.40	1.38			845	1112	5.70	5.80
	3	R4S1505003	2.30	2.21			880	1200	5.70	6.80
M6x1.0	0	R4S1506000	1.20	1.15	11.2 - 13.4	27 - 36	970	1380	7.90	13.00
	1	R4S1506001	1.40	1.38			1540	1680	10.20	16.00
	2	R4S1506002	2.30	2.21			1600	1750	13.50	16.80
	3	R4S1506003	2.30	2.21			1680	1850	14.10	18.50
M8x1.25	1	R4S1508001	1.40	1.38	11.2 - 15.6	27 - 36	1570	1870	13.60	18.70
	2	R4S1508002	2.30	2.21			1720	1980	18.10	19.30
M10x1.5	1	R4S1510001	2.31	2.21	18 - 32	32 - 50	1680	1900	30.70	32.50
	2	R4S1510002	3.18	3.05			1800	2020	34.20	38.00
M12x1.75	1	R4S1512001	3.18	3.05	28 - 40	42 - 67	1980	4250	38.50	79.50

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