



GST NO.: 29AHZPU5620Q1ZZ

An ISO 9001:2015 Certified Company

ROYAL INDUSTRIAL SUPPLIERS

QUALITY FASTENERS SPECIALIST



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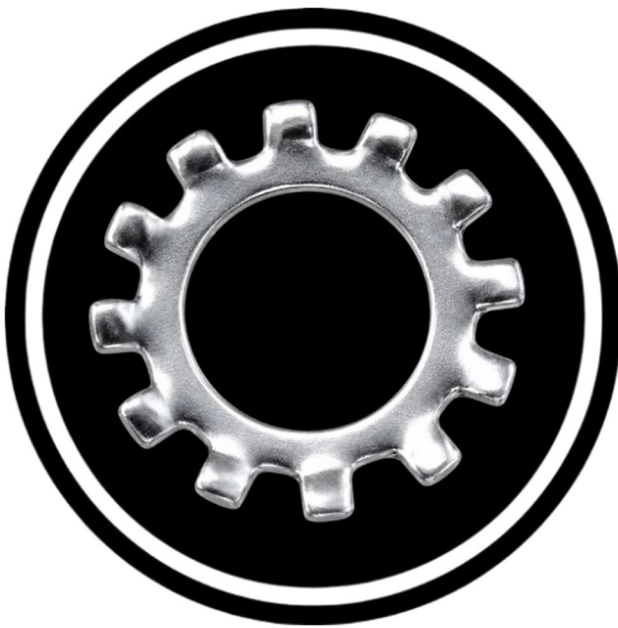


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TECHNICAL DATA SHEET

STAR WASHER EXTERNAL



MATERIAL- STAINLESS STEEL

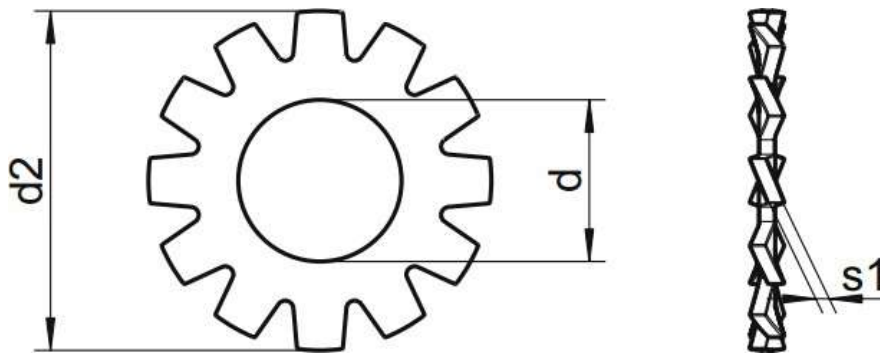
GRADE-SS304 (A2)

AS PER-DIN-6797 TYPE-A

CATALOGUE NO. R4G61E

INSTALLATION GUIDE

- VERIFY THE WASHER SIZE, INNER DIAMETER, OUTER DIAMETER, AND TOOTH CONFIGURATION MATCH THE APPLICATION REQUIREMENT.
- INSPECT THE WASHER FOR BENT, BROKEN, OR DAMAGED INTERNAL TEETH BEFORE INSTALLATION.
- ENSURE THE MATING SURFACES ARE CLEAN, DRY, AND FREE FROM OIL, PAINT, DUST, OR DEBRIS.
- POSITION THE INTERNAL TOOTH WASHER BETWEEN THE FASTENER HEAD OR NUT AND THE MATING SURFACE.
- ENSURE THE INTERNAL TEETH ARE ORIENTED TOWARD THE MATING SURFACE TO PROVIDE THE REQUIRED GRIPPING ACTION.
- ALIGN THE WASHER CENTRALLY WITH THE FASTENER SHANK.
- INSERT THE SCREW OR BOLT THROUGH THE WASHER AND INTO THE MATING THREAD OR NUT.
- HAND-TIGHTEN THE FASTENER INITIALLY TO KEEP THE WASHER PROPERLY POSITIONED.
- TIGHTEN THE FASTENER USING THE APPROPRIATE SPANNER, SOCKET, OR DRIVER.
- APPLY THE SPECIFIED TORQUE USING A CALIBRATED TORQUE WRENCH WHERE REQUIRED.
- ALLOW THE INTERNAL TEETH TO GRIP THE FASTENER AND MATING SURFACE DURING TIGHTENING.
- DO NOT OVERTIGHTEN, AS EXCESSIVE TORQUE MAY FLATTEN OR DAMAGE THE INTERNAL TEETH.
- VERIFY THAT THE WASHER IS FULLY SEATED AND THE TEETH ARE ENGAGED AFTER TIGHTENING.
- CHECK THAT THE FASTENER IS SECURE AND THE WASHER PROVIDES THE REQUIRED ANTI-ROTATION EFFECT.
- INSPECT THE FINAL ASSEMBLY FOR PROPER SEATING, SECURE FASTENING, AND RESISTANCE TO VIBRATION LOOSENING.



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

All Dimensions in mm

Nominal Size	PART NUMBER	Inside Diameter d		Outside Diameter d2		Thickness S1		Minimum number of teeth
Bolt Size		Min	Max	Min	Max	Min	Max	
M1.6 [A1.7]	R4G61E10600	1.70	1.84	3.30	3.60	0.27	0.33	6.00
M2 [A2.2]	R4G61E02000	2.20	2.34	4.20	4.50	0.27	0.33	6.00
M2.2 [A2.5]	R4G61E20200	2.50	2.64	4.70	2.50	0.36	0.44	6.00
M2.5 [A2.7]	R4G61E20500	2.70	2.84	5.20	5.50	0.36	0.44	6.00
M3 [A3.2]	R4G61E03000	3.20	3.38	5.70	6.00	0.36	0.44	6.00
M3.5 [A3.7]	R4G61E30500	3.70	3.88	6.64	7.00	0.46	0.54	6.00
M4 [A4.3]	R4G61E04000	4.30	4.48	7.64	8.00	0.46	0.54	8.00
#10 [A5.1]	R4G61E05001	5.10	5.28	8.64	9.00	0.46	0.54	8.00
M5 [A5.3]	R4G61E05000	5.30	5.48	9.64	10.00	0.55	0.65	8.00
M6 [A6.4]	R4G61E06000	6.40	6.62	10.57	11.00	0.65	0.75	8.00
M7 [A7.4]	R4G61E07000	7.40	7.62	12.07	12.50	0.75	0.85	8.00
5/16" [8.2]	R4G61E08001	8.20	8.42	13.57	14.00	0.75	0.85	8.00
M8 [A8.4]	R4G61E08000	8.40	8.62	14.57	15.00	0.75	0.85	8.00
M10 [A10.5]	R4G61E10000	10.50	10.77	17.57	18.00	0.85	0.95	9.00
M12 [A13]	R4G61E12000	13.00	13.27	19.98	20.50	0.94	1.06	10.00
M14 [A15]	R4G61E14000	15.00	15.27	23.48	24.00	0.94	1.06	10.00
M16 [A17]	R4G61E16000	17.00	17.27	25.48	26.00	1.14	1.26	12.00
M18 [A19]	R4G61E18000	19.00	19.33	29.48	30.00	1.34	1.46	12.00
M20 [A21]	R4G61E20000	21.00	21.33	32.38	33.00	1.34	1.46	12.00
M22 [A23]	R4G61E22000	23.00	23.33	35.38	36.00	1.42	1.58	14.00
M24 [A25]	R4G61E24000	25.00	25.33	37.38	38.00	1.42	1.58	14.00
M27 [A28]	R4G61E27000	28.00	28.33	43.38	44.00	1.52	1.68	14.00
M30 [A31]	R4G61E30000	31.00	31.39	47.38	48.00	1.52	1.68	14.00

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