



GST NO.: 29AHZPU5620Q1ZZ

An ISO 9001:2015 Certified Company

# ROYAL INDUSTRIAL SUPPLIERS

QUALITY FASTENERS SPECIALIST



8310165941 / 9959457863



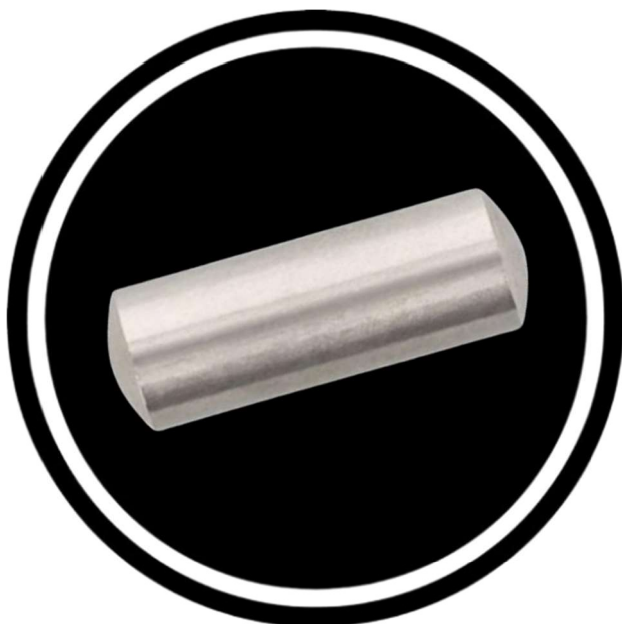
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## TECHNICAL DATA SHEET

### SOLID DOWEL PIN (PARALLEL PIN)



MATERIAL- STAINLESS STEEL

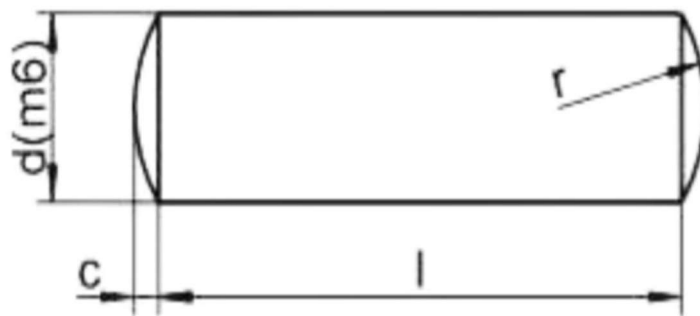
GRADE-SS303

AS PER-DIN-7

CATALOGUE NO. R3G31

### INSTALLATION GUIDE

- VERIFY THE DOWEL PIN DIAMETER, LENGTH, AND TOLERANCE MATCH THE APPLICATION REQUIREMENT.
- ENSURE THE MATING HOLE IS DRILLED AND REAMED TO THE CORRECT SIZE FOR INTERFERENCE OR SLIP FIT.
- CHECK THAT THE HOLE IS CLEAN, STRAIGHT, AND FREE FROM BURRS, OIL, OR DEBRIS.
- INSPECT THE DOWEL PIN FOR STRAIGHTNESS, SURFACE DAMAGE, OR CORROSION BEFORE INSTALLATION.
- ALIGN THE DOWEL PIN WITH THE HOLE AXIS BEFORE INSERTION.
- APPLY A LIGHT FILM OF OIL IF REQUIRED TO EASE INSTALLATION FOR INTERFERENCE FITS.
- PRESS THE DOWEL PIN INTO THE HOLE USING A PRESS TOOL OR ARBOR PRESS.
- APPLY FORCE EVENLY AND AXIALLY TO PREVENT PIN BENDING OR MISALIGNMENT.
- DO NOT HAMMER DIRECTLY ON THE PIN TO AVOID DEFORMATION OR SURFACE DAMAGE.
- ENSURE THE PIN IS SEATED TO THE SPECIFIED DEPTH OR FLUSH WITH THE SURFACE AS REQUIRED.
- VERIFY THAT THE PIN IS FIRMLY HELD AND DOES NOT MOVE OR ROTATE AFTER INSTALLATION.
- INSPECT THE FINAL ASSEMBLY TO CONFIRM ACCURATE ALIGNMENT AND SECURE LOCATION OF COMPONENTS.



**NOTE: TOLARANCE IS M6**

Dia→ Parameter↓	Ø0.8mm	Ø1mm	Ø1.5mm	Ø2mm	Ø2.5mm	Ø3mm	Ø4mm
Dia Tol	+0.002 to +0.008					+0.004 to +0.012	
c	0.13	0.15	0.23	0.30	0.40	0.45	0.60
r	0.80	1.00	1.50	2.00	2.50	3.00	4.00
Length Tolerance	3-6mm ±0.24 7-10mm ±0.29 11-18mm ±0.35 19-30mm ±0.42 31-50mm ±0.50 >50mm ±0.60						

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

All Dimensions in mm

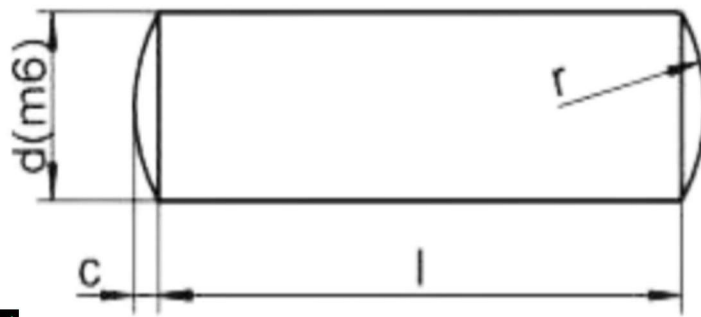
Dia→ Length↓	Ø0.8mm	Ø1mm	Ø1.5mm	Ø2mm	Ø2.5mm	Ø3mm	Ø4mm
3	R3G3100803	R3G3101003	R3G3110503				
4	R3G3100804	R3G3101004	R3G3110504	R3G3102004	R3G3120504	R3G3103004	
5	R3G3100805	R3G3101005	R3G3110505	R3G3102005	R3G3120505	R3G3103005	R3G3104005
6	R3G3100806	R3G3101006	R3G3110506	R3G3102006	R3G3120506	R3G3103006	R3G3104006
8	R3G3100808	R3G3101008	R3G3110508	R3G3102008	R3G3120508	R3G3103008	R3G3104008
10	R3G3100810	R3G3101010	R3G3110510	R3G3102010	R3G3120510	R3G3103010	R3G3104010
12	R3G3100812	R3G3101012	R3G3110512	R3G3102012	R3G3120512	R3G3103012	R3G3104012
14	R3G3100814	R3G3101014	R3G3110514	R3G3102014	R3G3120514	R3G3103014	R3G3104014
16	R3G3100816	R3G3101016	R3G3110516	R3G3102016	R3G3120516	R3G3103016	R3G3104016
18		R3G3101018	R3G3110518	R3G3102018	R3G3120518	R3G3103018	R3G3104018
20		R3G3101020	R3G3110520	R3G3102020	R3G3120520	R3G3103020	R3G3104020
24				R3G3102024	R3G3120524	R3G3103024	R3G3104024
28				R3G3102028	R3G3120528	R3G3103028	R3G3104028
30				R3G3102030	R3G3120530	R3G3103030	R3G3104030
32				R3G3102032	R3G3120532	R3G3103032	R3G3104032
36						R3G3103036	R3G3104036
40						R3G3103040	R3G3104040
45						R3G3103045	R3G3104045
50						R3G3103050	R3G3104050
55						R3G3103055	R3G3104055
60						R3G3103060	R3G3104060
65						R3G3103065	

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



**NOTE: TOLARANCE IS M6**

Dia→ Parameter↓	Ø5mm	Ø6mm	Ø8mm	Ø10mm	Ø12mm	Ø16mm	Ø20mm
<b>Dia Tol</b>	+0.004 to +0.012		+0.006 to +0.015		+0.007 to +0.018		+0.004 to +0.012
<b>c</b>	0.75	0.90	1.20	1.50	1.80	2.50	3.00
<b>r</b>	5.00	6.00	8.00	10.00	12.00	16.00	20.00
<b>Length Tolerance</b>	3-6mm ±0.24 7-10mm ±0.29 11-18mm ±0.35 19-30mm ±0.42 31-50mm ±0.50 51-80mm ±0.60 >80mm ±0.60						

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

All Dimensions in mm

Dia→ Length↓	Ø5mm	Ø6mm	Ø8mm	Ø10mm	Ø12mm	Ø16mm	Ø20mm
5	R3G3105005	R3G3106005					
6	R3G3105006	R3G3106006					
8	R3G3105008	R3G3106008	R3G3108008				
10	R3G3105010	R3G3106010	R3G3108010	R3G3110010	R3G3112010		
12	R3G3105012	R3G3106012	R3G3108012	R3G3110012	R3G3112012		
14	R3G3105014	R3G3106014	R3G3108014	R3G3110014	R3G3112014		
16	R3G3105016	R3G3106016	R3G3108016	R3G3110016	R3G3112016	R3G3116016	
18	R3G3105018	R3G3106018	R3G3108018	R3G3110018	R3G3112018	R3G3116018	
20	R3G3105020	R3G3106020	R3G3108020	R3G3110020	R3G3112020	R3G3116020	R3G3120020
24	R3G3105024	R3G3106024	R3G3108024	R3G3110024	R3G3112024	R3G3116024	R3G3120024
28	R3G3105028	R3G3106028	R3G3108028	R3G3110028	R3G3112028	R3G3116028	R3G3120028
30	R3G3105030	R3G3106030	R3G3108030	R3G3110030	R3G3112030	R3G3116030	R3G3120030
32	R3G3105032	R3G3106032	R3G3108032	R3G3110032	R3G3112032	R3G3116032	R3G3120032
36	R3G3105036	R3G3106036	R3G3108036	R3G3110036	R3G3110036	R3G3116036	R3G3120036
40	R3G3105040	R3G3106040	R3G3108040	R3G3110040	R3G3112040	R3G3116040	R3G3120040
45	R3G3105045	R3G3106045	R3G3108045	R3G3110045	R3G3112045	R3G3116045	R3G3120045
50	R3G3105050	R3G3106050	R3G3108050	R3G3110050	R3G3112050	R3G3116050	R3G3120050
55	R3G3105055	R3G3106055	R3G3108055	R3G3110055	R3G3112055	R3G3116055	R3G3120055
60	R3G3105060	R3G3106060	R3G3108060	R3G3110060	R3G3112060	R3G3116060	R3G3120060
65	R3G3105065	R3G3106065	R3G3108065	R3G3110065	R3G3112065	R3G3116065	R3G3120065
70	R3G3105070	R3G3106070	R3G3108070	R3G3110070	R3G3112070	R3G3116070	R3G3120070
75		R3G3106075	R3G3108075	R3G3110075	R3G3112075	R3G3116075	R3G3120075
80		R3G3106080	R3G3108080	R3G3110080	R3G3112080	R3G3116080	R3G3120080
90		R3G3106090	R3G3108090	R3G3110090	R3G3112090	R3G3116090	R3G3120090
100			R3G3108100	R3G3110100	R3G3112100	R3G3116100	R3G3120100

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