GST NO.: 29AHZPU5620Q1ZZ

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# ROYAL INDUSTRIAL SUPPLIERS

QUALITY FASTENERS SPECIALIST

8310165941 / 9959457863 sales@royalfastenersindia.com www.royalfastenersindia.com

# TECHNICAL DATA SHEET

## ALLEN GRUB SCREW DOG POINT



**MATERIAL-STAINLESS STEEL**

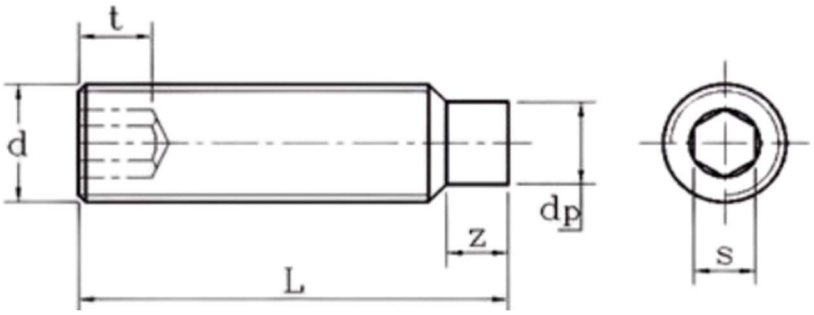
**GRADE-SS304 (A2-70)**

**AS PER-DIN-915 OR ISO-4028**

**CATALOGUE NO. R4C49**

## INSTALLATION GUIDE

- VERIFY THE GRUB SCREW SIZE, THREAD PITCH, LENGTH, AND STAINLESS-STEEL GRADE BEFORE INSTALLATION.
- INSPECT THE SCREW FOR THREAD DAMAGE, DEFORMATION, OR SURFACE DEFECTS.
- ENSURE THE MATING THREADED HOLE MATCHES THE SCREW'S THREAD SPECIFICATION.
- CLEAN THE THREADED HOLE AND MATING SURFACES TO REMOVE DUST, OIL, GREASE, AND DEBRIS.
- CHECK THAT THE MATING SHAFT OR COMPONENT HAS A SUITABLE FLAT OR RECESS FOR THE DOG POINT, AS REQUIRED BY THE DESIGN.
- ALIGN THE GRUB SCREW WITH THE THREADED HOLE TO ENSURE PROPER ENGAGEMENT.
- START THREADING THE SCREW BY HAND TO PREVENT CROSS-THREADING.
- USE A SUITABLE ALLEN KEY OR HEX BIT THAT MATCHES THE INTERNAL DRIVE SIZE.
- TIGHTEN THE SCREW GRADUALLY TO GUIDE THE DOG POINT INTO THE MATING RECESS OR POSITION.
- ENSURE THE DOG POINT ENGAGES CORRECTLY WITHOUT DAMAGING THE SHAFT OR MATING SURFACE.
- APPLY THE RECOMMENDED TIGHTENING TORQUE ACCORDING TO THE SCREW SIZE AND APPLICATION.
- AVOID EXCESSIVE TIGHTENING, AS IT MAY DAMAGE THE INTERNAL HEX DRIVE, THREADS, OR MATING COMPONENT.
- USE A SUITABLE THREAD-LOCKING COMPOUND WHEN REQUIRED BY THE APPLICATION.
- VERIFY THAT THE SCREW IS SECURELY INSTALLED AND THE MATING COMPONENT IS PROPERLY POSITIONED.
- INSPECT THE FINAL ASSEMBLY FOR PROPER ENGAGEMENT, ALIGNMENT, AND SECURE FASTENING.



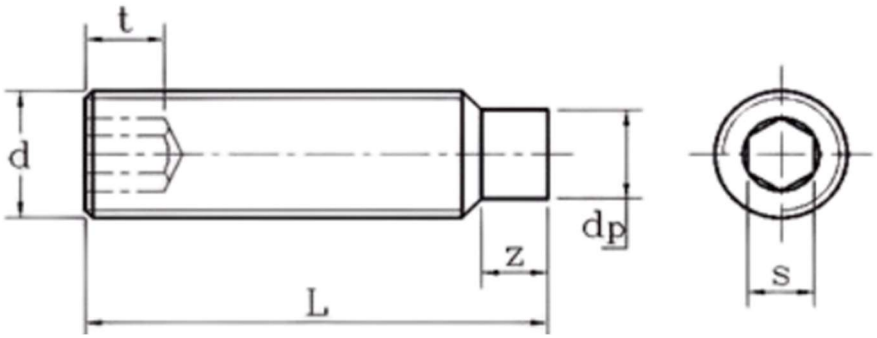

**Quote the PART NUMBER given below with your order/ inquiries:** **All Dimensions in mm**

| Parameter↓ Size→ | | M1.6x0.35 | M2x0.4 | M2.5x0.45 | M3x0.5 | M4x0.7 | M5x0.8 |
|---|---|---|---|---|---|---|---|
| End dia dp | max | 0.80 | 1.00 | 1.50 | 2.00 | 2.50 | 3.50 |
| | min | 0.55 | 0.75 | 1.25 | 1.75 | 2.25 | 3.20 |
| Socket depth | t min | 0.7 | 0.8 | 1.2 | 1.2 | 1.5 | 2.0 |
| Key size s | nom | 0.7 | 0.9 | 1.3 | 1.5 | 2.0 | 2.5 |
| z (Short dog point) | min | 0.40 | 0.50 | 0.63 | 0.75 | 1.00 | 1.25 |
| | max | 0.65 | 0.75 | 0.88 | 1.00 | 1.25 | 1.50 |
| z (Long dog point) | min | 0.80 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 |
| | max | 1.05 | 1.25 | 1.50 | 1.75 | 2.25 | 2.75 |
| e min | | 0.803 | 1.003 | 1.427 | 1.730 | 2.300 | 2.870 |

| Length↓ Size → | M1.6x0.35 | M2x0.4 | M2.5x0.45 | M3x0.5 | M4x0.7 | M5x0.8 |
|---|---|---|---|---|---|---|
| 2 | R4C4910602 | R4C4902002 | | | | |
| 3 | R4C4910603 | R4C4902003 | R4C4920503 | R4C4903003 | R4C4904003 | |
| 4 | R4C4910604 | R4C4902004 | R4C4920504 | R4C4903004 | R4C4904004 | R4C4905004 |
| 5 | R4C4910605 | R4C4902005 | R4C4920505 | R4C4903005 | R4C4904005 | R4C4905005 |
| 6 | R4C4910606 | R4C4902006 | R4C4920506 | R4C4903006 | R4C4904006 | R4C4905006 |
| 8 | R4C4910608 | R4C4902008 | R4C4920508 | R4C4903008 | R4C4904008 | R4C4905008 |
| 10 | | R4C4902010 | R4C4920510 | R4C4903010 | R4C4904010 | R4C4905010 |
| 12 | | R4C4902012 | R4C4920512 | R4C4903012 | R4C4904012 | R4C4905012 |
| 14 | | R4C4902014 | R4C4920514 | R4C4903014 | R4C4904014 | R4C4905014 |
| 16 | | R4C4902016 | R4C4920516 | R4C4903016 | R4C4904016 | R4C4905016 |
| 18 | | | | R4C4903018 | R4C4904018 | R4C4905018 |
| 20 | | | | R4C4903020 | R4C4904020 | R4C4905020 |
| 25 | | | | R4C4903025 | R4C4904025 | R4C4905025 |
| 30 | | | | R4C4903030 | R4C4904030 | R4C4905030 |
| 35 | | | | R4C4903035 | R4C4904035 | R4C4905035 |
| 40 | | | | R4C4903040 | R4C4904040 | R4C4905040 |
| 45 | | | | | R4C4904045 | R4C4905045 |
| 50 | | | | | R4C4904050 | R4C4905050 |
| 55 | | | | | | R4C4905055 |
| 60 | | | | | | R4C4905060 |

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




Quote the item code given below with your order/ inquiries: Dimensions in mm

| Parameter↓ Size→ | | M6x1.0 | M8x1.25 | M10x1.5 | M12x1.75 | M16x2.0 | M20x2.5 |
|---|---|---|---|---|---|---|---|
| End dia dP | max | 4.00 | 5.50 | 7.00 | 8.50 | 12.00 | 15.00 |
| | min | 3.70 | 5.20 | 6.64 | 8.14 | 11.57 | 14.57 |
| Socket depth | t min | 2.0 | 3.0 | 4.0 | 4.8 | 6.4 | 8.0 |
| Key size s | nom | 3 | 4 | 5 | 6 | 8 | 10 |
| z (Short dog point) | min | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| | max | 1.75 | 2.25 | 2.75 | 3.25 | 4.30 | 5.30 |
| z (Long dog point) | min | 3.00 | 4.00 | 5.00 | 6.00 | 8.00 | 10.00 |
| | max | 3.25 | 4.30 | 5.30 | 6.30 | 8.36 | 10.36 |
| e min | | 3.440 | 4.580 | 5.720 | 6.860 | 9.149 | 11.429 |

| Length↓ Size → | M6x1.0 | M8x1.25 | M10x1.5 | M12x1.75 | M16x2.0 | M20x2.5 |
|---|---|---|---|---|---|---|
| 5 | R4C4906005 | | | | | |
| 6 | R4C4906006 | R4C4908006 | R4C4910006 | | | |
| 8 | R4C4906008 | R4C4908008 | R4C4910008 | R4C4912008 | | |
| 10 | R4C4906010 | R4C4908010 | R4C4910010 | R4C4912010 | | |
| 12 | R4C4906012 | R4C4908012 | R4C4910012 | R4C4912012 | | |
| 14 | R4C4906014 | R4C4908014 | R4C4910014 | R4C4912014 | R4C4916014 | |
| 16 | R4C4906016 | R4C4908016 | R4C4910016 | R4C4912016 | R4C4916016 | |
| 18 | R4C4906018 | R4C4908018 | R4C4910018 | R4C4912018 | R4C4916018 | |
| 20 | R4C4906020 | R4C4908020 | R4C4910020 | R4C4912020 | R4C4916020 | R4C4920020 |
| 25 | R4C4906025 | R4C4908025 | R4C4910025 | R4C4912025 | R4C4916025 | R4C4920025 |
| 30 | R4C4906030 | R4C4908030 | R4C4910030 | R4C4912030 | R4C4916030 | R4C4920030 |
| 35 | R4C4906035 | R4C4908035 | R4C4910035 | R4C4912035 | R4C4916035 | R4C4920035 |
| 40 | R4C4906040 | R4C4908040 | R4C4910040 | R4C4912040 | R4C4916040 | R4C4920040 |
| 45 | R4C4906045 | R4C4908045 | R4C4910045 | R4C4912045 | R4C4916045 | R4C4920045 |
| 50 | R4C4906050 | R4C4908050 | R4C4910050 | R4C4912050 | R4C4916050 | R4C4920050 |
| 55 | R4C4906055 | R4C4908055 | R4C4910055 | R4C4912055 | R4C4916055 | R4C4920055 |
| 60 | R4C4906060 | R4C4908060 | R4C4910060 | R4C4912060 | R4C4916060 | R4C4920060 |
| 70 | R4C4906070 | R4C4908070 | R4C4910070 | R4C4912070 | R4C4916070 | R4C4920070 |
| 80 | R4C4906080 | R4C4908080 | R4C4910080 | R4C4912080 | R4C4916080 | R4C4920080 |
| 90 | | R4C4908090 | R4C4910090 | R4C4912090 | R4C4916090 | R4C4920090 |
| 100 | | R4C4908100 | R4C4910100 | R4C4912100 | R4C4916100 | R4C4920100 |
| 120 | | R4C4908120 | R4C4910120 | R4C4912120 | | |

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