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CherryMAX® Rivet CR3243-4-03

CR3243-4-03 is a 1/8 nominal diameter oversize structural blind rivet from the CherryMAX® series, designed for aerospace applications requiring single-sided (blind) installation and for restoring slightly enlarged or repair holes. The CR3243 family features a universal (protruding) head with an oversize shank (approximately 1/64 over nominal). The CherryMAX® system uses a mechanically locked stem with a separate locking collar to provide a secure, vibration-resistant joint. A silver-colored driving anvil identifies oversize diameter rivets, and both the head markings and lock collar remain visible after installation for inspection.

Basic Specifications

- Nominal Diameter: 1/8 in (Diameter Dash -4)
- Shank Diameter (D): 0.140 in (+0.003 / -0.001)
- Head Style: Universal Head (oversize CherryMAX® series)
- Head Diameter (A): 0.250 in ± 0.010
- Head Height (B): 0.054 in (ref)
- P (Min): 0.010 in
- Z (Ref): 0.87 in
- Minimum Blind-Side Clearance (BK min): 0.390 in
- Hole Limits (Min/Max): 0.143 – 0.146 in
- Grip Range (Grip Dash -03): 0.126 – 0.187 in
- Overall Length (L): 0.301 in (+0.000 / -0.030)
- K (Max): 0.52 in
- Rivet Type: Universal head, locked spindle, oversize diameter
- Procurement Specification: PS-CMR-3000
- Manufacturer: Cherry Aerospace, USA.

Materials and Standard Finish Set (typical codes: “A”, “PR”, “T”)

- Sleeve (Body): 5056 Aluminum Alloy (per QQ-A-430)
- Stem: 8740 Alloy Steel (per AMS 6322)
- Lock Collar: A-286 CRES (per AMS 5731 & AMS 5737)
- Sleeve Finish: Chemical film / chromate conversion, plain color (per MIL-C / MIL-DTL-5541)
- Stem Finish: Cadmium plate, Type II, Class 2 (per QQ-P-416)
- Steel components: Passivated (per AMS 2700)
- Specific finish codes (A, PR, T and “G”-prefix variants) define the exact coating and lubrication; the final configuration is determined by the full part number including finish code.

Material Thickness Selection Guidelines

- Select CR3243-4-03 when the total material stack thickness falls within 0.126–0.187 in
- CherryMAX® grip dash numbers indicate maximum grip in 1/16 increments (- 03 = max grip 3/16 = 0.187 in)
- As part of the oversize CR3243 series, the shank diameter is larger than nominal, allowing proper filling of slightly oversize or repair holes and helping to restore joint strength and fatigue performance.

Part Identification and Marking Structure

- CR3243 — CherryMAX® rivet family: oversize shank, universal head, locked spindle
- -4 — diameter dash number (nominal diameter in 1/32 increments; -4 = 1/8)
- -03 — grip dash number (maximum grip in 1/16 increments)
- After installation, the universal head profile, head markings, and visible lock collar provide clear visual confirmation of correct fastener type and grip selection.

Note: This technical information is based on the official documentation provided by Cherry Aerospace and is intended solely for reference in product selection and specification.