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CherryMAX® Rivet CR3243-6-05

CR3243-6-05 is a 3/16 nominal diameter oversize structural blind rivet from the CherryMAX® series, developed for aerospace applications requiring single-sided (blind) installation and for restoring slightly enlarged or repair holes. The CR3243 family features a universal (protruding) head and an oversize shank (approximately 1/64 over nominal diameter). The CherryMAX® system employs a mechanically locked stem with a separate A-286 stainless steel locking collar, providing a strong, 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: 3/16 in (Diameter Dash -6)
- Shank Diameter (D): 0.201 in (+0.003 / -0.001)
- Head Style: Universal Head (oversize CherryMAX® series)
- Head Diameter (A): 0.375 in ± 0.010
- Head Height (B): 0.080 in (ref)
- P (Min): 0.015 in
- Z (Ref): 0.94 in
- Minimum Blind-Side Clearance (BK min): 0.410 in
- Hole Limits (Min/Max): 0.205 – 0.209 in
- Grip Range (Grip Dash -05): 0.251 – 0.312 in
- Overall Length (L): 0.492 in (+0.000 / -0.030)
- K (Max): 0.69 in
- Procurement Specification: PS-CMR-3000
- Manufacturer: Cherry Aerospace, USA.

Materials and Standard Finish Set

- Sleeve (Body): 5056 Aluminum Alloy (per QQ-A-430)
- Stem: 8740 Alloy Steel (per AMS 6322)
- Lock Collar: A-286 Corrosion-Resistant Steel (per AMS 5731 & AMS 5737)
- Sleeve Finish: Chemical film / chromate conversion (per MIL-DTL-5541)
- Stem Finish: Cadmium plate, Type II, Class 2 (per QQ-P-416)
- Steel Components: Passivated (per AMS 2700)
- Final coating and lubrication are defined by the finish code in the full part number (A, PR, T or "G"-prefix variants).

Material Thickness Selection Guidelines

- Select CR3243-6-05 when the total material stack thickness falls within 0.251–0.312 in
- CherryMAX® grip dash numbers indicate maximum grip in 1/16 increments (-05 = max grip 5/16 = 0.312 in)
- Oversize shank design improves hole fill and load transfer, helping to restore structural integrity and fatigue performance in repair applications.

Part Identification and Marking Structure

- CR3243 — CherryMAX® rivet family: oversize shank, universal head, locked spindle
- -6 — diameter dash number (nominal diameter in 1/32 increments; -6 = 3/16)
- -05 — grip dash number (maximum grip in 1/16 increments)
- After installation, the universal head profile, visible locking collar, oversize shank, and Cherry head markings 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.