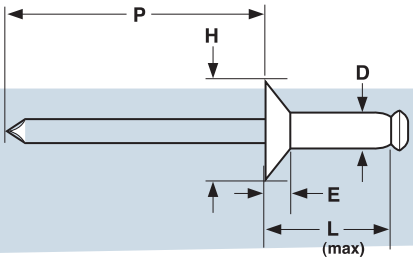
# Aluminum Rivet/ Aluminum Mandrel

## Countersunk Head Blind Rivet




| 120° Countersunk Head Break-Stem Blind Rivets | | | | | | | | SAE J-1200 |
|---|---|---|---|---|---|---|---|---|
| Nominal Rivet Diameter | D | | H | | E | W | P | F |
| | Rivet Shank Diameter | | Head Diameter | | Head Height | Mandrel Diameter | Mandrel Protrusion | Blind Side Protrusion |
| | Max | Min | Max | Min | Max | Nom | Min | Max |
| 1/8 | .128 | .122 | .233 | .207 | .031 | .076 | 1.00 | L + 0.120 |
| 5/32 | .159 | .153 | .294 | .268 | .040 | .095 | 1.06 | L + 0.140 |
| 3/16 | .191 | .183 | .361 | .335 | .050 | .114 | 1.06 | L + 0.160 |

| | |
|---|---|
| **Description** | An all aluminum blind fastener with a self-contained carbon mandrel which permits the formation of an upset on the blind end of the rivet and expansion of the rivet shank during rivet setting. The mandrel is pulled into or against the rivet body, breaking at or near the junction of the mandrel shank and its upset end. The head of the rivet body is countersunk at an angle of 120°. |
| **Applications/ Advantages** | The countersunk head style provides a smooth offside surface and sufficient clearance for moving parts which pass over the rivet head. Aluminum rivets are lightweight and resist corrosion, but have lower tensile and shear values than steel or stainless rivets. |
| **Material** | *Rivet Body:* Aluminum alloy 5050 or 5052 or equivalent<br>*Mandrel:* Aluminum alloy 7178 or 2024 or equivalent |
| **Shear Strength (Min.)** | *1/8:* 120 lbs.; *5/32:* 190 lbs.; *3/16:* 260 lbs. |
| **Tensile Strength (Min.)** | *1/8:* 150 lbs.; *5/32:* 230 lbs.; *3/16:* 320 lbs. |
| **Mandrel Break Load** | *1/8:* 250 - 400 lbs.; *5/32:* 425 - 600 lbs.; *3/16:* 625 - 825 lbs. |

| Part Number Comparison - Aluminum Rivet/Aluminum Mandrel | | | | | | | |
|---|---|---|---|---|---|---|---|
| Catalog Part Number | Huck/ Automatic | Pop® | Marson/ Creative | Star | Celus® | Cherry | Gesipa® |
| ACA42 | ACA42 | AK42ABS | AC4-2A | - | A/A42C | AAC-42 | GAMC42A |
| ACA43 | ACA43 | - | AC4-3A | - | A/A43C | AAC-43 | GAMC43A |
| ACA44 | ACA44 | - | AC4-4A | - | A/A44C | AAC-44 | GAMC44A |
| ACA46 | - | - | - | - | - | AAC-46 | - |
| ACA54 | ACA54 | - | - | - | - | AAC-54 | GAMC54A |
| ACA56 | ACA56 | - | - | - | - | AAC-56 | GAMC56A |
| ACA64 | ACA64 | - | AC6-4A | - | A/A64C | AAC-64 | GAMC64A |
| ACA66 | ACA66 | - | - | - | - | AAC-66 | - |
| ACA68 | ACA68 | - | - | - | - | AAC-68 | - |

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