### TABLE I

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>(ΦA)</th>
<th>(ΦA) MIN</th>
<th>ΦD</th>
<th>ΦE MAX</th>
<th>F WRENCH FLATS</th>
<th>(G)</th>
<th>(H)</th>
<th>(L)</th>
<th>Φ RAD MAX</th>
<th>S MAX</th>
<th>(T HEX ACROSS FLATS)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>INCH</td>
<td>mm</td>
<td>INCH</td>
<td>mm</td>
<td>INCH</td>
<td>INCH</td>
<td>INCH</td>
<td>mm</td>
<td>INCH</td>
<td>mm</td>
<td>INCH</td>
</tr>
<tr>
<td>MBF2315-05(-)</td>
<td>3.32</td>
<td>8.43</td>
<td>6.25</td>
<td>165.5</td>
<td>14.17</td>
<td>6.1</td>
<td>16.3</td>
<td>2.18</td>
<td>2.06</td>
<td>2.06</td>
<td>3.75</td>
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<tr>
<td>MBF2315-06(-)</td>
<td>3.78</td>
<td>9.65</td>
<td>7.52</td>
<td>29.6</td>
<td>16.45</td>
<td>6.1</td>
<td>16.3</td>
<td>2.18</td>
<td>2.06</td>
<td>2.06</td>
<td>3.75</td>
</tr>
</tbody>
</table>

### TABLE I (CONTINUED)

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>MIN AVAILABLE GRIP LENGTH</th>
<th>MAX AVAILABLE GRIP LENGTH</th>
<th>RECOM. HOLE SIZE</th>
<th>ΦJ MIN</th>
<th>K MAX</th>
<th>BREAK-OFF LIMITS</th>
<th>TENSILE STRUCTURAL FAILURE MIN</th>
<th>DOUBLE SHEAR MIN</th>
<th>LOCKING TORQUE MIN</th>
<th>V (GAGE PROTRUSION)</th>
<th>ØW (GAGE)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>INCH</td>
<td>mm</td>
<td>INCH</td>
<td>mm</td>
<td>mm</td>
<td>INCH</td>
<td>INCH</td>
<td>INCH</td>
<td>INCH</td>
<td>INCH</td>
<td>INCH</td>
</tr>
<tr>
<td>MBF2315-05(-)</td>
<td>-100</td>
<td>-1000</td>
<td>1.68</td>
<td>4.27</td>
<td>4.19</td>
<td>0.4</td>
<td>0.5</td>
<td>0.379</td>
<td>0.580</td>
<td>0.487</td>
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<tr>
<td>MBF2315-06(-)</td>
<td>-150</td>
<td>-1500</td>
<td>1.99</td>
<td>5.31</td>
<td>5.05</td>
<td>0.7</td>
<td>0.9</td>
<td>0.435</td>
<td>0.752</td>
<td>0.675</td>
<td>1.17</td>
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</tbody>
</table>

**Title:** COMPOSI-LOK® 3 BLIND FASTENER FLUSH BREAK 130° FLUSH SHEAR HEAD, REDUCED RECESS FOR ADVANCED COMPOSITE MATERIAL & METALLIC STRUCTURES, TITANIUM

**Drawing No.:** MBF2315(-)(-)(-)

**Drawing Date:** 08/14/13

**Cage Code:** 17-0231

**Sheet:** 1 of 2
APPLICABLE SPECIFICATIONS:
PROCUREMENT SPECIFICATION: MBF2300
INSTALLATION AND INSPECTION SPECIFICATION: MBF2301
SPECIAL LUBE AND FINISH: MBF2002

MATERIAL AND HEAT TREAT:
NUT: DUAL RIV TITANIUM ALLOY PER AMS7-9428 OR AM54967 HEAT TREATED PER AMS-H-8120 TO 95 KSI SHEAR STRENGTH MINIMUM, MAXIMUM HYDROGEN CONTENT 125 PPM
SCREW: A286 CREP PER AMS6731, AM6732 OR AM5737 HEAT TREATED TO 175 KSI TENSILE MINIMUM.
SLEEVE: 304 STAINLESS STEEL PER AMS639, FULLY ANNEALED.
INSERT: ACETAL PER ASTM-D6778
DRIVE NUT: MILD STEEL

FINISH:
(-) NUT: CONVERSION COATING OR PHOSPHATE FLOURIDE PER MONOGRAM SPECIFICATION PS741, MAY BE USED AT MANUFACTURER'S OPTION
SLEEVE AND SCREW: PASSIVATE PER AMS2703, CONVERSION COATING OPTIONAL
DRIVE NUT: COLOR GRAY

LUBRICANT: DRY FILM LUBE PER THE REQUIREMENTS OF AMS2722 TYPE 1 OR EVERYLUBE #812 PER MIL-PRF-81329, PARAFFIN WAX, OR CETYL ALCOHOL PER AMS7132 AS REQUIRED FOR PERFORMANCE.

GENERAL NOTES:
1. EXAMPLE OF PART NUMBER:
   MBF2315 (-) - 06 - 103 (-)
   "A" DESIGNATES DUAL DRIVE NUT SYSTEM FOR ROBOTIC INSTALLATION
   DESIGNATES GRIP (TABLE II)
   DESIGNATES BASIC DIMENSIONS (TABLE I)
   DESIGNATES SPECIAL FINISH CODE (SEE MBF2002)
   DESIGNATES BASIC PART NUMBER

2. LOCKING FEATURE CONSISTS OF THREE (3) INDENTATIONS LOCATED 120° APART ON THE PERIPHERY OF THE NUT COMPONENT AND APPROXIMATELY 0.040" ABOVE INTERSECTION OF THE NUT NOSE ANGLE AND O.D.

   HEAD MARKINGS:
   MANUFACTURER'S IDENTIFICATION: MONOGRAM = "M" Fastener Identification = "2113" Position Optional
   Alternate Head Marking: "M1" and "2013".

   Distortion shall not prevent insertion of the fastener into a ring gauge of length equal to one diameter and hole diameter equal to a minimum recommended hole. Force for insertion shall not exceed 6.0 pounds.

   INSTALLATION AND REMOVAL INFORMATION T.B.A.

Title:
COMPOSI-LOK® 3 BLIND FASTENER FLUSH BREAK
130° FLUSH SHEAR HEAD, REDUCED RECESS
FOR ADVANCED COMPOSITE MATERIAL & METALLIC STRUCTURES, TITANIUM

Drawing No: MBF2315(-)(-)(-)

Drawn By: M. DOMINGUEZ
Date: 08/14/13

Approved: 11/22/12

Monogram Fasteners
3423 South Garfield Avenue
Commerce, California 90040
(323) 722-4760 FAX (323) 727-1029

Monogram Aerospace Fasteners
a TriMas Company