## Thread Size Code

<table>
<thead>
<tr>
<th>Thread Size Code</th>
<th>ø D</th>
<th>P, PZ, SL, TS, TW, NR</th>
<th>H</th>
<th>(H1)</th>
<th>(P2)</th>
<th>J</th>
<th>Ø M ± 0.005</th>
<th>Ø N ± 0.005</th>
<th>Ø Q ± 0.004</th>
<th>Ø S ± 0.001</th>
<th>Ø T ± 0.010</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>4, 4F, M3</td>
<td>.325</td>
<td>.444</td>
<td>.374</td>
<td>.748</td>
<td>.676</td>
<td>.493</td>
<td>.423</td>
<td>.265</td>
<td>.177</td>
<td>.206</td>
<td>.250</td>
<td>.390</td>
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<tr>
<td>8, 8F, M4</td>
<td>.420</td>
<td>.559</td>
<td>.489</td>
<td>.988</td>
<td>.916</td>
<td>.618</td>
<td>.548</td>
<td>.385</td>
<td>.215</td>
<td>.258</td>
<td>.281</td>
<td>.468</td>
</tr>
<tr>
<td>10, 10C, 10F, M5</td>
<td>.451</td>
<td>.589</td>
<td>.529</td>
<td>1.061</td>
<td>.991</td>
<td>.656</td>
<td>.566</td>
<td>.427</td>
<td>.290</td>
<td>.297</td>
<td>.316</td>
<td>.500</td>
</tr>
<tr>
<td>12, 12C, 12F, M6</td>
<td>.531</td>
<td>.804</td>
<td>.534</td>
<td>1.058</td>
<td>.996</td>
<td>.681</td>
<td>.581</td>
<td>.428</td>
<td>.319</td>
<td>.371</td>
<td>.386</td>
<td>.578</td>
</tr>
</tbody>
</table>

## Thread Size Code

<table>
<thead>
<tr>
<th>Lead Diameter</th>
<th>4, 4F, M3</th>
<th>6, 6F, M3.5</th>
<th>8, 8F, M4</th>
<th>10, 10C, 10F, M5</th>
<th>12, 12C, 12F, M6</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>.005</td>
<td>.012</td>
<td>.015</td>
<td>.015</td>
<td>.015</td>
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<tr>
<td>L2</td>
<td>.025</td>
<td>.038</td>
<td>.045</td>
<td>.045</td>
<td>.045</td>
</tr>
<tr>
<td>L3</td>
<td>.050</td>
<td>.070</td>
<td>.085</td>
<td>.085</td>
<td>.085</td>
</tr>
</tbody>
</table>

## Part Number Callout

- **FRBWW** (7500) ( ) ( ) ( )

## Material Code

<table>
<thead>
<tr>
<th>Material Code</th>
<th>Wavy Washer Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Spring Steel</td>
</tr>
<tr>
<td>3</td>
<td>17.7 PH</td>
</tr>
<tr>
<td>4</td>
<td>Spring Steel</td>
</tr>
</tbody>
</table>

## Title

**TURN-LOC, HIGH PROFILE, OPTIONAL RECESS, ALUM KNOB .031 RADIAL FLOAT**

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**Alcoa Fastening Systems**

AEROSPACE FASTENER DIVISION
3724 EAST COLUMBIA STREET
TUCSON, ARIZONA 85714
PHONE 520 519-7400
FAX 520 519-5477
www.huckaerospace.com
**Material**

**STUD:** HS, NR, P, PZ, & SLOT RECESSES  
ALL SIZES - 302 CRES PER ASTM-A-493 OR AMS 5636

**STUD:** TS AND TW RECESSES  
ALL SIZES - A-286 CRES PER AMS 5737, HEAT TREAT TO 160 KSI MIN. ULTIMATE TENSILE STRENGTH

**KNOB & SLEEVE:** 6061 ALUMINUM ALLOY PER AMS-QQ-A-225/8, OR AMS 4117, OR EQUIVALENT

**SPRING:** 302 CRES PER ASTM-A-313 OR AMS 5688

**WAVY WASHER:**

**CODE:**
1. 2 & 4: SPRING STEEL PER AMS-QQ-S-700 OR EQUIVALENT
2. 3: CRES PER AMS 5528, AMS 5529 OR EQUIVALENT

**FLAT WASHER:** 301 CRES PER AMS 5901 OR AMS 5519 OR EQUIVALENT

**Finish**

**STUD, SPRING & FLAT WASHERS:** PASSIVATE PER AMS QQ-P-35

**KNOB & SLEEVE:** ANODIZE PER MIL-A-8625, TYPE II, CLASS I

**WAVY WASHER:**

**CODE:**
1. 2: CAD PLATE PER AMS QQ-P-416, TYPE I, CLASS 2
2. 3: PASSIVATE PER AMS QQ-P-35
3. 4: CAD PLATE PER AMS QQ-P-416, TYPE I, CLASS 2

**Notes:**

- LETTERS AT THE END OF PART NUMBER DESIGNATE SPECIAL ASSEMBLIES: DL - ASSEMBLIES WITH DRI LUBE THREADS PER MIL-PRF-46010
  PL - ASSEMBLIES WITH PATCH LOCK PER MIL-DTL-18240

- NO CODE REQUIRED FOR SLOTTED HEADS

- WHEN USING THE HEX SOCKET CONFIGURATION, ADD .070 TO "L" LENGTH.

- FOR LONGER LENGTHS, ADD .125 INCREMENTS PER LENGTH CODE

- BLACK FINISH IS AN AVAILABLE OPTION. CONSULT AFS ENGINEERING DEPARTMENT

- CROSS RECESS IS ONE SIZE SMALLER THAN NOMINAL SIZE REQUIRED FOR 100° FLAT HEAD.

- .3A THREADS PER ASME B1.1. "M" THREADS PER ANSI/ASME B1.13M.

**Installation tools:** ( ) INDICATES THREAD SIZE CODE

- ARBOR PRESS TOOL HW7600- , NOSE PIECE HN7513-, REMOVAL ADAPTER TOOL FNR7505- , PULLER HP7523-, HANDLE ASSEMBLY TA7533;

- COMPLETE HAND TOOL ASSEMBLY: H8603- INCLUDES NOSE PIECE, PULLER & HANDLE