**MATERIAL AND FINISH FOR SHEET 1**

**MATERIAL**

**SCREW:**
- WHEN SPECIFIED BY MATERIAL/FINISH CODE: 302 CRES PER AMS 5636 OR ASTM-A-493
- OR
- A-286 CRES PER AMS 5732, AMS 5737 OR EQUIV., H.T TO 160 KSI MIN. ULTIMATE TENSILE STRENGTH

**SLEEVE:**
- 303Se CRES PER AMS 5641 OR ASTM-A-484

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

**FINISH:**
- WHEN SPECIFIED BY MATERIAL/FINISH CODE:
  - PASSIVATE PER AMS QQ-P-35
  - BLACK OXIDE PER MIL-DTL-13924, CLASS 3 (A-286)
  - BLACK OXIDE PER MIL-DTL-13924, CLASS 4 (302)
  - ALUMINUM COAT PER NAS4006
  - CAD PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2

**SLEEVE:**
- WHEN SPECIFIED BY MATERIAL/FINISH CODE:
  - PASSIVATE PER AMS QQ-P-35
  - BLACK OXIDE PER MIL-DTL-13924, CLASS 4
  - ALUMINUM COAT PER NAS4006
  - CAD PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2

**SPRING:**
- ALL VERSIONS: PASSIVATE PER AMS QQ-P-35

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**NOTES:**

- THREAD LENGTH "T" DIMENSION FOR CODE -3 IS .142 FOR ALL THREAD SIZE CODES

- CODE .4 IS .205 FOR ALL THREAD SIZE CODES EXCEPT 4, 4F, AND M3

- CODE .5 IS .265 FOR ALL THREAD SIZE CODES EXCEPT 4, 4F, AND M3

- THREAD SIZE CODE INDICATES NOMINAL RETAINER NUT THREAD SIZE (J1).

- GRIP CODE "G" INDICATES TOP PANEL THICKNESS RANGE DESIGNATED BY LETTERS "A" THRU "D".

- 3A AND 3B THREADS PER MIL-S-7742. METRIC THREADS PER ASME B1.13M.

- HP HEAD STYLE: CROSS RECESS PER NASM9006, RECESS SIZE IS ONE SIZE SMALLER THAN EQUIV. THREAD SIZE FOR FLUSH HEAD SCREW.

- SCREW IS SEMI-CAPITIVE ON ALUMINUM-COATED AND CAD-PLATED VERSIONS. COMPONENTS ARE COATED PRIOR TO ASSEMBLY TO ENSURE COMPLETE COVERAGE. SLEEVE I.D. IS THREADED TO ALLOW FOR ASSEMBLY AFTER THREAD ROLL AND COAT OPERATION.

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**TITLE:**

**CAPTIVE SCREW, RETAINER HELD, FILLISTER & HEX HEAD, ALL SIZES, OPTIONAL RECESS**

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**DRAWING:**

**DRAWING NO.:** S-2293

**DATE:** 01-23-06

**REVISION:** Y

**SCALE:** NONE

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**SCHLOBOHM**
**CHOI**
**HEIN**