

FED. SUPPLY CLASS

5320

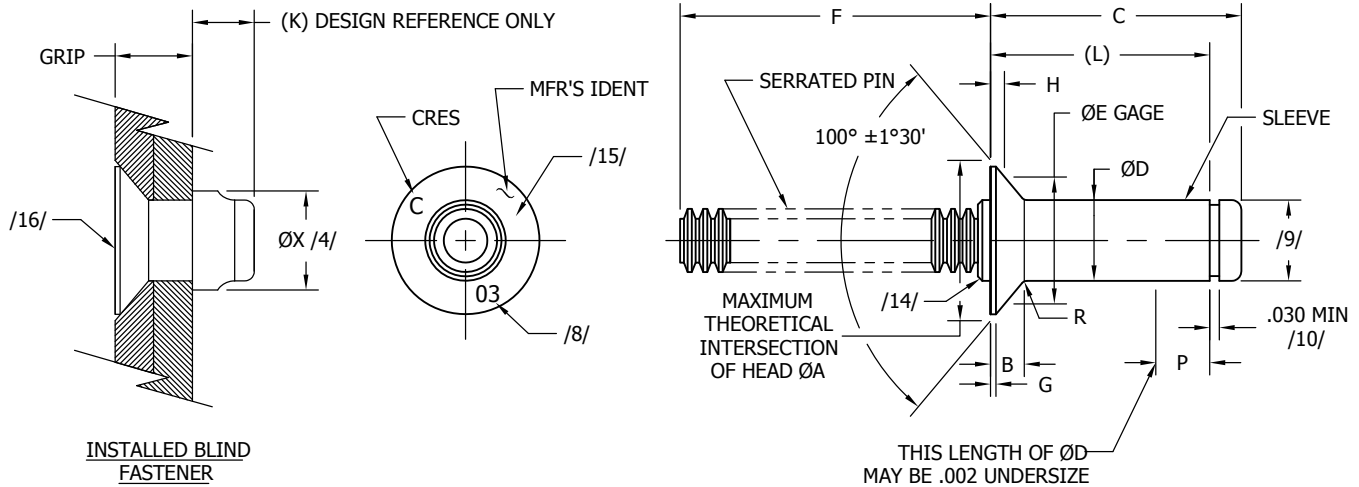


TABLE I – FASTENER DIMENSIONS AND STRENGTHS

| SIZE DASH NUMBER /5/ | DOUBLE ACTION /6/ | SINGLE ACTION /6/ /7/ | NOM SIZE | (ØA) | B MAX | ØD           | ØE GAGE        | F MIN | G MAX | H GAGE         | (K)  |      | P MAX | R MAX | ØX MIN /4/ | INSTALLED FASTENER                 |                               | (HOLE LIMITS) |
|----------------------|-------------------|-----------------------|----------|------|-------|--------------|----------------|-------|-------|----------------|------|------|-------|-------|------------|------------------------------------|-------------------------------|---------------|
|                      |                   |                       |          |      |       |              |                |       |       |                | MAX  | MIN  |       |       |            | MIN ULTIMATE SINGLE SHEAR (POUNDS) | MIN ULTIMATE TENSILE (POUNDS) |               |
| -                    | S04               | -                     | .1250    | .229 | .044  | .129<br>.127 | .1841<br>.1839 | .812  | .011  | .0185<br>.0155 | .150 | .095 | .190  | .012  | .154       | 1222                               | 675                           | .132<br>.129  |
| 05                   | S05               | U05                   | .1562    | .334 | .074  | .164<br>.162 | .2832<br>.2830 | .844  | .011  | .0206<br>.0171 | .202 | .120 | .215  | .010  | .195       | 1980                               | 1150                          | .167<br>.164  |
| 06                   | S06               | U06                   | .1875    | .387 | .082  | .199<br>.197 | .3272<br>.3270 | .875  | .013  | .0243<br>.0205 | .231 | .146 | .250  | .015  | .238       | 2925                               | 1690                          | .202<br>.199  |
| -                    | 08                | U08                   | .2500    | .508 | .108  | .260<br>.258 | .4320<br>.4318 | 1.000 | .017  | .0310<br>.0270 | .279 | .188 | .305  | .020  | .315       | 5000                               | 2900                          | .263<br>.260  |
| -                    | 10                | U10                   | .3125    | .635 | .140  | .312<br>.310 | .5451<br>.5449 | 1.208 | .020  | .0367<br>.0325 | .319 | .224 | .350  | .025  | .373       | 7200                               | 4170                          | .315<br>.312  |
| -                    | 12                | U12                   | .3750    | .763 | .168  | .374<br>.372 | .6582<br>.6580 | 1.562 | .023  | .0428<br>.0380 | .364 | .264 | .405  | .030  | .448       | 10380                              | 5970                          | .377<br>.374  |

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS21140, REVISION J. PART NUMBERS REMAIN MS21140.

|                                              |                                                                                                                                              |                                                     |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| THIRD ANGLE PROJECTION                       | CUSTODIAN<br>NATIONAL AEROSPACE STANDARDS COMMITTEE                                                                                          | REVISION<br><b>2</b>                                |
| PROCUREMENT SPECIFICATION<br><b>NASM8975</b> | TITLE<br><b>FASTENERS, BLIND, HIGH STRENGTH, PULL TYPE, POSITIVE MECHANICAL LOCK, 100° FLUSH HEAD, CORROSION RESISTING STEEL, 95 KSI Fsu</b> | CLASSIFICATION<br>PART STANDARD<br><b>NASM21140</b> |

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## MATERIAL:

SLEEVE: CORROSION RESISTANT STEEL PER CHEMICAL REQUIREMENTS OF AMS5737 (UNS S66286)  
 SERRATED PIN: CORROSION RESISTANT STEEL PER CHEMICAL REQUIREMENTS OF AMS5737 (UNS S66286)  
 MECHANICAL LOCK: CORROSION RESISTANT STEEL PER CHEMICAL REQUIREMENTS OF AMS5737 (UNS S66286)  
 OR CORROSION RESISTANT STEEL PER CHEMICAL REQUIREMENTS OF  
 AMS5690 (UNS S31600) OR NICKEL ALLOY PER CHEMICAL REQUIREMENTS OF AMS5687  
 (UNS N06600) ON Ø.1250 (-04) LOCK COLLARS ONLY.

## FINISH:

SLEEVE: PASSIVATION PER AMS2700 METHOD 1, CLASS 4 OR CADMIUM PLATING PER AMS-QQ-P-416, TYPE II, (CLEAR DICHROMATE), CLASS 2.  
 SERRATED PIN: PASSIVATION PER AMS2700 METHOD 1, CLASS 4.  
 MECHANICAL LOCK: PASSIVATION PER AMS2700 METHOD 1, CLASS 4 FOR CRES.  
 NO FINISH FOR NICKEL ALLOY.

## LUBRICATION:

WHEN LUBRICATED, PARTS SHALL BE LUBRICATED PER AS5272, AS87132 OR DOD-L-85645.

## EXAMPLE OF PART NUMBER:

MS21140 - 08 03 P = Ø.2500 NOM SIZE, .156 MIN GRIP, CADMIUM PLATED, INSTALLED WITH A SINGLE ACTION TOOL.

"P" DENOTES CADMIUM PLATING.  
 "L" DENOTES LONGER PINTAIL.  
 "W" DENOTES FASTENER CONTAINING DRIVE WASHER FOR BLUNT NOSED TOOL INSTALLATION.  
 NO CODE DENOTES PASSIVATION TREATMENT.

GRIP DASH NUMBER (SEE TABLE II).  
 SIZE DASH NUMBER (SEE TABLE I).

"-" DENOTES FASTENERS INSTALLED WITH A DOUBLE ACTION TOOL FOR SIZES 05 AND 06.  
 "-" DENOTES FASTENERS INSTALLED WITH A SINGLE ACTION TOOL FOR SIZES 08, 10 AND 12.  
 "S" DENOTES FASTENERS INSTALLED WITH A SINGLE ACTION TOOL FOR SIZES 04, 05 AND 06.  
 "U" DENOTES SINGLE ACTION TOOL FASTENERS INSTALLED WITH A SINGLE ACTION TOOL FOR ALL SIZES /7/.

BASIC PART NUMBER

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC  
 1000 WILSON BLVD.  
 ARLINGTON, VA 22209

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME  
 PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST  
 REVISION DATE.

FORM 12-01

REVISION

2

**MS21140**  
 SHEET 2