

REV.  
B

AS5173

FEDERAL SUPPLY CLASS  
4730

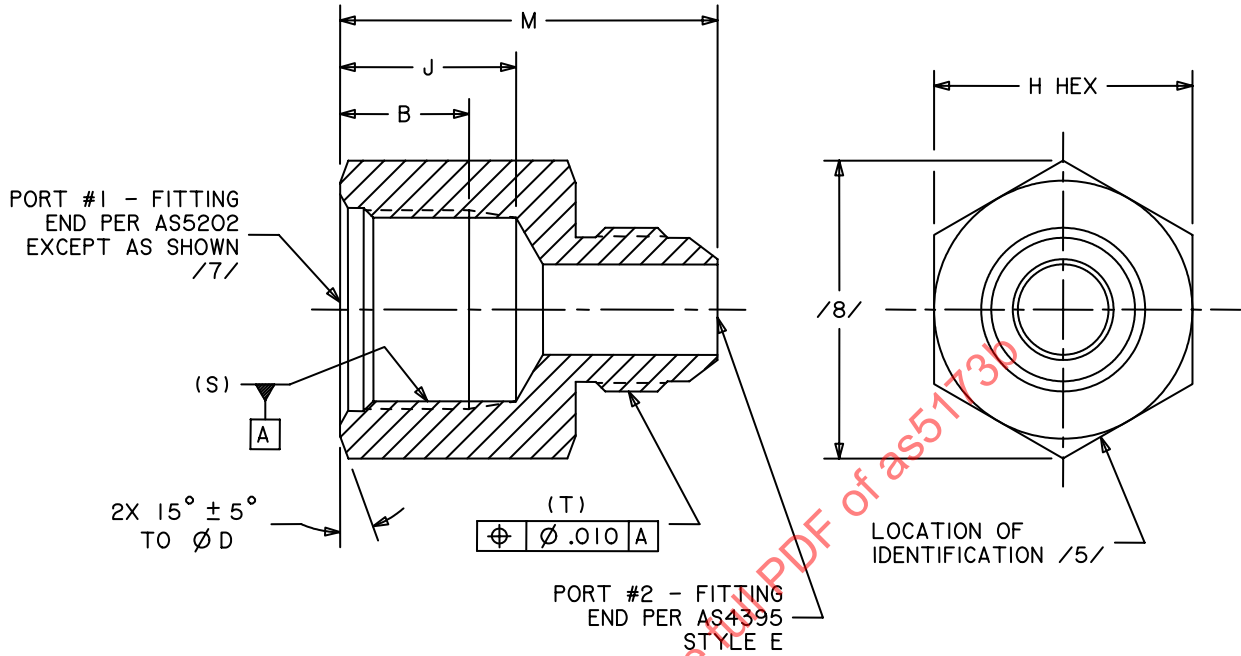
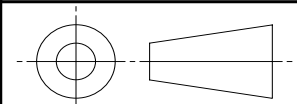


FIGURE 1 - FITTING



THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4875

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

FITTING, BUSHING, PORT, REDUCER

**AS5173**  
SHEET 1 OF 4

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ISSUED 2000-01 REVISED 2005-01

| AS5173                               |                                 | REV.<br>B                       |                                    |                                    |          |            |               |       |       |                             |                              |                             |
|--------------------------------------|---------------------------------|---------------------------------|------------------------------------|------------------------------------|----------|------------|---------------|-------|-------|-----------------------------|------------------------------|-----------------------------|
| TABLE 1 – DIMENSIONS AND WEIGHTS     |                                 |                                 |                                    |                                    |          |            |               |       |       |                             |                              |                             |
| BASIC NO.<br>AS5173/14/<br>SIZE CODE | NOMINAL<br>TUBE SIZE<br>PORT #1 | NOMINAL<br>TUBE SIZE<br>PORT #2 | S THREAD<br>PER AS8879<br>CLASS 3B | T THREAD<br>PER AS8879<br>CLASS 3A | B<br>MIN | D<br>±.010 | H             | J     | M     | LB EA<br>APPROX<br>AL (REF) | LB EA<br>APPROX<br>STL (REF) | LB EA<br>APPROX<br>TI (REF) |
| 0302                                 | .188                            | .125                            | .3750-24UNJF                       | .3125-24UNJF                       | .538     | .605       | .615 - .628   | .598  | 1.188 | .0319                       | .0917                        | .0506                       |
| 0402                                 | .250                            | .125                            | .4375-20UNJF                       | .3125-24UNJF                       | .568     | .668       | .678 - .691   | .672  | 1.297 | .0362                       | .104                         | .0573                       |
| 0403                                 | .250                            | .188                            | .4375-20UNJF                       | .3750-24UNJF                       | .568     | .668       | .678 - .691   | .672  | 1.297 | .0378                       | .109                         | .0599                       |
| 0504                                 | .312                            | .250                            | .5000-20UNJF                       | .4375-20UNJF                       | .568     | .730       | .740 - .753   | .672  | 1.500 | .0433                       | .124                         | .0685                       |
| 0604                                 | .375                            | .250                            | .5625-18UNJF                       | .4375-20UNJF                       | .470     | .793       | .803 - .816   | .630  | 1.391 | .0511                       | .147                         | .0809                       |
| 0605                                 | .375                            | .313                            | .5625-18UNJF                       | .5000-20UNJF                       | .470     | .793       | .803 - .816   | .630  | 1.375 | .0534                       | .153                         | .0846                       |
| 0804                                 | .500                            | .250                            | .7500-16UNJF                       | .4375-20UNJF                       | .562     | .980       | .990 - 1.003  | .750  | 1.609 | .0649                       | .186                         | .103                        |
| 0805                                 | .500                            | .313                            | .7500-16UNJF                       | .5000-20UNJF                       | .562     | .980       | .990 - 1.003  | .750  | 1.547 | .0672                       | .193                         | .107                        |
| 0806                                 | .500                            | .375                            | .7500-16UNJF                       | .5625-18UNJF                       | .562     | .980       | .990 - 1.003  | .750  | 1.547 | .0698                       | .200                         | .111                        |
| 1004                                 | .625                            | .250                            | .8750-14UNJF                       | .4375-20UNJF                       | .625     | 1.103      | 1.113 - 1.128 | .810  | 1.672 | .0713                       | .205                         | .113                        |
| 1005                                 | .625                            | .313                            | .8750-14UNJF                       | .5000-20UNJF                       | .625     | 1.103      | 1.113 - 1.128 | .810  | 1.656 | .0737                       | .212                         | .117                        |
| 1006                                 | .625                            | .375                            | .8750-14UNJF                       | .5625-18UNJF                       | .625     | 1.103      | 1.113 - 1.128 | .810  | 1.641 | .0763                       | .219                         | .121                        |
| 1008                                 | .625                            | .500                            | .8750-14UNJF                       | .7500-16UNJF                       | .625     | 1.103      | 1.113 - 1.128 | .810  | 1.750 | .090                        | .258                         | .143                        |
| 1206                                 | .750                            | .375                            | 1.0625-12UNJ                       | .5625-18UNJF                       | .688     | 1.353      | 1.363 - 1.380 | .940  | 1.813 | .102                        | .294                         | .162                        |
| 1208                                 | .750                            | .500                            | 1.0625-12UNJ                       | .7500-16UNJF                       | .688     | 1.353      | 1.363 - 1.380 | .940  | 1.922 | .116                        | .334                         | .184                        |
| 1210                                 | .750                            | .625                            | 1.0625-12UNJ                       | .8750-14UNJF                       | .688     | 1.353      | 1.363 - 1.380 | .940  | 2.016 | .131                        | .376                         | .207                        |
| 1606                                 | 1.000                           | .375                            | 1.3125-12UNJ                       | .5625-18UNJF                       | .688     | 1.603      | 1.613 - 1.630 | .970  | 1.922 | .123                        | .352                         | .194                        |
| 1608                                 | 1.000                           | .500                            | 1.3125-12UNJ                       | .7500-16UNJF                       | .688     | 1.603      | 1.613 - 1.630 | .970  | 2.032 | .136                        | .391                         | .216                        |
| 1610                                 | 1.000                           | .625                            | 1.3125-12UNJ                       | .8750-14UNJF                       | .688     | 1.603      | 1.613 - 1.630 | .970  | 2.109 | .151                        | .434                         | .293                        |
| 1612                                 | 1.000                           | .750                            | 1.3125-12UNJ                       | 1.0625-12UNJ                       | .688     | 1.603      | 1.613 - 1.630 | .970  | 2.203 | .179                        | .514                         | .283                        |
| 2008                                 | 1.250                           | .500                            | 1.6250-12UNJ                       | .7500-16UNJF                       | .688     | 1.863      | 1.863 - 1.880 | 1.010 | 2.172 | .137                        | .392                         | .216                        |
| 2010                                 | 1.250                           | .625                            | 1.6250-12UNJ                       | .8750-14UNJF                       | .688     | 1.863      | 1.863 - 1.880 | 1.010 | 2.250 | .151                        | .435                         | .240                        |
| 2012                                 | 1.250                           | .750                            | 1.6250-12UNJ                       | 1.0625-12UNJ                       | .688     | 1.863      | 1.863 - 1.880 | 1.010 | 2.328 | .179                        | .515                         | .284                        |
| 2016                                 | 1.250                           | 1.000                           | 1.6250-12UNJ                       | 1.3125-12UNJ                       | .688     | 1.863      | 1.863 - 1.880 | 1.010 | 2.297 | .224                        | .642                         | .354                        |



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SHEET 2 OF 4

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## NOTES:

## /1/ MATERIAL:

- a. DASH AS CODE LETTER: TYPE 4130 STEEL BAR PER AMS-S-6758 OR AMS 6370 OR TYPE 4140 PER AMS 6382. /2/
- b. CODE LETTER D: TYPE 2024-T6 ALUMINUM ALLOY BAR PER AMS-QQ-225/6, OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6 OR AMS 4339.
- c. CODE LETTER J: TYPE 304 COND A CORROSION RESISTANT STEEL BAR PER AMS 5639 OR AMS-QQ-S-763.
- d. CODE LETTER K: TYPE 316 COND A CORROSION RESISTANT STEEL BAR PER AMS 5648 OR AMS-QQ-S-763.
- e. CODE LETTER R: TYPE 321 COND A CORROSION RESISTANT STEEL BAR PER AMS 5645 OR AMS-QQ-S-763.
- f. CODE LETTER T: TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS 4928.
- g. CODE LETTER W: TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9 OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS 4124.

## /2/ HEAT TREATMENT:

- a. DASH AS CODE LETTER – SEE HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
- b. OTHER MATERIAL CODE LETTERS - NONE.

## 3. FINISH:

- a. NO MATERIAL CODE LETTER: CADMIUM PLATE PER AMS-QQ-P-416 TYPE II, CLASS 2, DYE BLACK AND COAT WITH A LIGHT FILM OF OIL PER PROCUREMENT SPECIFICATION. /15/
- b. MATERIAL CODE LETTER D:
  1. ANODIZE PER AMS 2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BLUE, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
  2. D CODE PARTS TO BE COATED WITH HIGH PURITY ALUMINUM ONLY WILL HAVE THE FINISH CODE LETTER "V" AFTER THE SIZE CODE IN THE PART NUMBER. THE FINISH WILL BE: COAT WITH HIGH PURITY ALUMINUM PER MIL-DTL-83488, CLASS 3, TYPE II WITH MAXIMUM COATING THICKNESS OF .0005. GLASS BEAD PEEN PRESSURE SHALL BE 25 psi MAXIMUM.
- c. MATERIAL CODE LETTER J: PASSIVATE PER AMS-QQ-P-35, TYPE VI OR VII.
- d. MATERIAL CODE LETTER K: PASSIVATE PER AMS-QQ-P-35, TYPE VI OR VII.
- e. MATERIAL CODE LETTER R: PASSIVATE PER AMS-QQ-P-35, TYPE VI OR VII.
- f. MATERIAL CODE LETTER T: ANODIZE PER AMS 2488 TYPE 2 OR FLUORIDE PHOSPHATE COAT PER AMS 2486, COLOR PER PROCUREMENT SPECIFICATION.
- g. MATERIAL CODE LETTER W:
  1. ANODIZE PER AMS 2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
  2. W CODE PARTS TO BE COATED WITH HIGH PURITY ALUMINUM ONLY WILL HAVE THE FINISH CODE LETTER "V" AFTER THE SIZE CODE IN THE PART NUMBER. THE FINISH WILL BE: COAT WITH HIGH PURITY ALUMINUM PER MIL-DTL-83488, CLASS 3, TYPE II WITH MAXIMUM COATING THICKNESS OF .0005. GLASS BEAD PEEN PRESSURE SHALL BE 25 psi MAXIMUM.

/4/ PROCUREMENT SPECIFICATION: AS4875 EXCEPT AS SPECIFIED ON THIS STANDARD. USERS OF THIS STANDARD SHALL PROCURE THIS PRODUCT FROM ACCREDITED MANUFACTURER(S), OR ACCREDITED DISTRIBUTOR(S), AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED MANUFACTURERS LIST (QML) FOR THIS TYPE PRODUCT.

/5/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR D OR METHOD 7A3, 15A3, OR 15B MANUFACTURER'S NAME, TRADEMARK OR CAGE CODE, BASIC PART NUMBER, AND MATERIAL CODE LETTER.