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**AS21910**

Submitted for recognition as an American National Standard

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PREPARED BY COMMITTEE G-3

PROCUREMENT SPECIFICATION MIL-F-18280

**SAE** The Engineering Society  
For Advancing Mobility  
Land Sea Air and Space  
400 Commonwealth Drive, Warrendale, PA 15096-0001

**AEROSPACE STANDARD**

TEE, BULKHEAD, FLARELESS TUBE,  
INTERNAL THREAD ON SIDE

**AS21910**  
SHEET 1 OF 3

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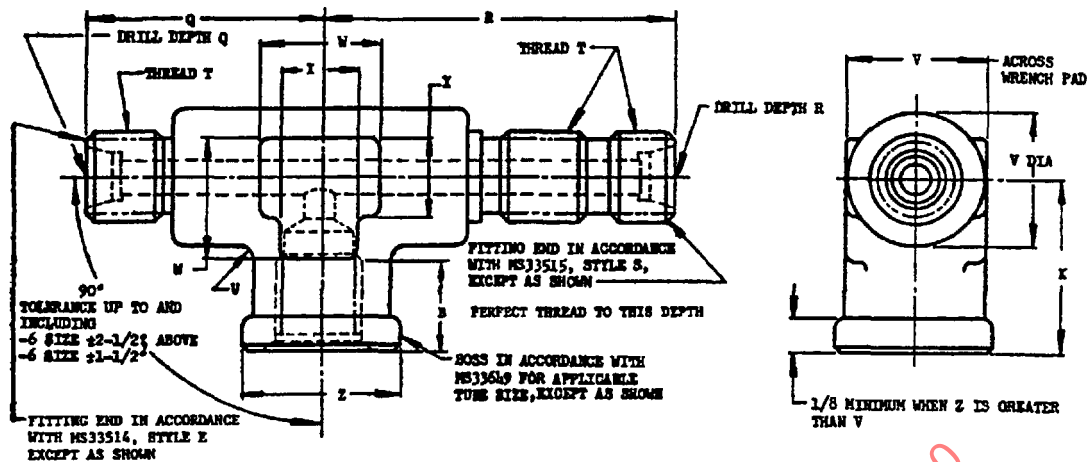
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AS21910



| DASH NO. | TUBE OD | THREAD T MIL-S-8879 | B MIN | K +3/64 -0 | Q +3/64 -0 | R +3/64 -0 | U RAD | V      | W APPROX | X APPROX | Z DIA   | WT STEEL | LB AL ALLOY | MAX TI ALLOY |
|----------|---------|---------------------|-------|------------|------------|------------|-------|--------|----------|----------|---------|----------|-------------|--------------|
| -2       | 1/8     | .3125-24 UNJF-3A    | .375  | 5/8        | 27/32      | 3/8        | 1/16  | 1/2    | 15/32    | 5/16     | 9/16    | .051     | .018        | .029         |
| -3       | 3/16    | .3750-24 UNJF-3A    | .406  | 11/16      | 29/32      | 1-29/64    |       | 9/16   | 1/2      |          | 5/8     | .104     | .039        | .060         |
| -4       | 1/4     | .4375-20 UNJF-3A    | .438  | 3/4        | 1-3/32     | 1-43/64    | 3/32  | 3/4    | 11/16    |          | 3/4     | .233     | .083        | .134         |
| -5       | 5/16    | .5000-20 UNJF-3A    |       |            |            |            |       |        |          | 7/16     |         | .278     | .099        | .160         |
| -6       | 3/8     | .5625-18 UNJF-3A    | .469  | 13/16      | 1-5/32     | 1-57/64    |       | 7/8    | 25/32    |          | 7/8     | .326     | .116        | .188         |
| -8       | 1/2     | .7500-16 UNJF-3A    | .562  | 1          | 1-11/32    | 2-3/32     |       | 1-1/16 | 29/32    | 1/2      | 1-1/16  | .554     | .197        | .319         |
| -10      | 5/8     | .8750-14 UNJF-3A    | .625  | 1-5/32     | 1-1/2      | 2-1/4      | 1/8   |        |          |          | 1-3/16  | .579     | .206        | .334         |
| -12      | 3/4     | 1.0625-12 UNJF-3A   |       | 1-11/32    | 1-41/64    | 2-7/16     |       | 1-5/16 | 1-3/32   | 5/8      | 1-7/16  | 1.012    | .360        | .583         |
| -16      | 1       | 1.3125-12 UNJF-3A   | .688  | 1-17/32    | 1-27/32    | 2-21/32    |       | 1-5/8  | 1-5/16   | 3/4      | 1-11/16 | 1.340    | .455        | .773         |
| -20      | 1-1/4   | 1.6250-12 UNJF-3A   |       | 1-23/32    | 1-63/64    | 2-51/64    |       | 1-7/8  | 1-1/2    | 7/8      | 2       | 1.950    | .672        | 1.125        |

- MATERIAL: CARBON STEEL - FORGINGS  
ALUMINUM ALLOY - FORGINGS  
CORROSION RESISTANT STEEL - FORGINGS  
TITANIUM ALLOY - FORGINGS  
SEE PROCUREMENT SPECIFICATION  
NOTE: PARTS MADE FROM 1137 OR 1141 FORGINGS QUALIFIED TO MIL-F-18280C SHALL NOT BE SUPPLIED AFTER 30 JUNE 1984.
- FINISH: SEE PROCUREMENT SPECIFICATION
- BREAK ALL SHARP EDGES AND REMOVE ALL BURRS AND SLIVERS.
- DIMENSIONS IN INCHES, UNLESS OTHERWISE SPECIFIED, TOLERANCES: FRACTIONS  $\pm 1/64$ .
- PART NUMBERS:  
NO CODE LETTER IN PART NUMBER FOR CARBON STEEL.  
ADD D IN PLACE OF DASH FOR ALUMINUM ALLOY (2014).  
ADD W IN PLACE OF DASH FOR ALUMINUM ALLOY (7075).  
ADD J IN PLACE OF DASH FOR CORROSION RESISTANT STEEL, TYPE 304.  
ADD K IN PLACE OF DASH FOR CORROSION RESISTANT STEEL, TYPE 316.  
ADD S AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL, TYPE 347. PARTS ARE NOT TO BE MANUFACTURED FROM TYPE 304L STEEL AFTER 27 JUNE 1969.  
ADD T AFTER DASH NUMBER FOR TITANIUM ALLOY (6AL-4V).

## EXAMPLES OF PART NUMBERS:

MS21910-8 - TEE, 1/2 TUBING, CARBON STEEL  
 MS21910D8 - TEE, 1/2 TUBING, ALUMINUM ALLOY (2014).  
 MS21910W8 - TEE, 1/2 TUBING, ALUMINUM ALLOY (7075).  
 MS21910J8 - TEE, 1/2 TUBING, CORROSION RESISTANT STEEL, TYPE 304.  
 MS21910K8 - TEE, 1/2 TUBING, CORROSION RESISTANT STEEL, TYPE 316.  
 MS21910-8S - TEE, 1/2 TUBING, CORROSION RESISTANT STEEL, TYPE 347.  
 MS21910-8T - TEE, 1/2 TUBING, TITANIUM ALLOY (6AL-4V)