

REV.  
D

AS5173™

FEDERAL SUPPLY CLASS  
4730

RATIONALE

FIGURE 1 REDRAWN TO REFLECT OPTIONAL SAFETY WIRE HOLES. "INACTIVE IN PART" STATUS REPLACED BY "NOT RECOMMENDED IN PART." TABLE 1 REDRAWN AND PRESENTED VERTICALLY. OPTIONAL MATERIALS ADDED TO NOTE 1. NOTE 2 REVISED. QML STATEMENT REVISED. INTENDED USE NOTE REVISED, NOTE 9 REVISED TO REFLECT CURRENT SPECIFICATION CALLOUT. NOTE 16 DELETED. REVISION INDICATOR NOTE REVISED. NOTE 17 REVISED TO REFLECT ACTUAL APPLICABLE DATE. NOTES 18, 19, 20 ADDED. GENERAL NON-TECHNICAL UPDATES INCORPORATED.

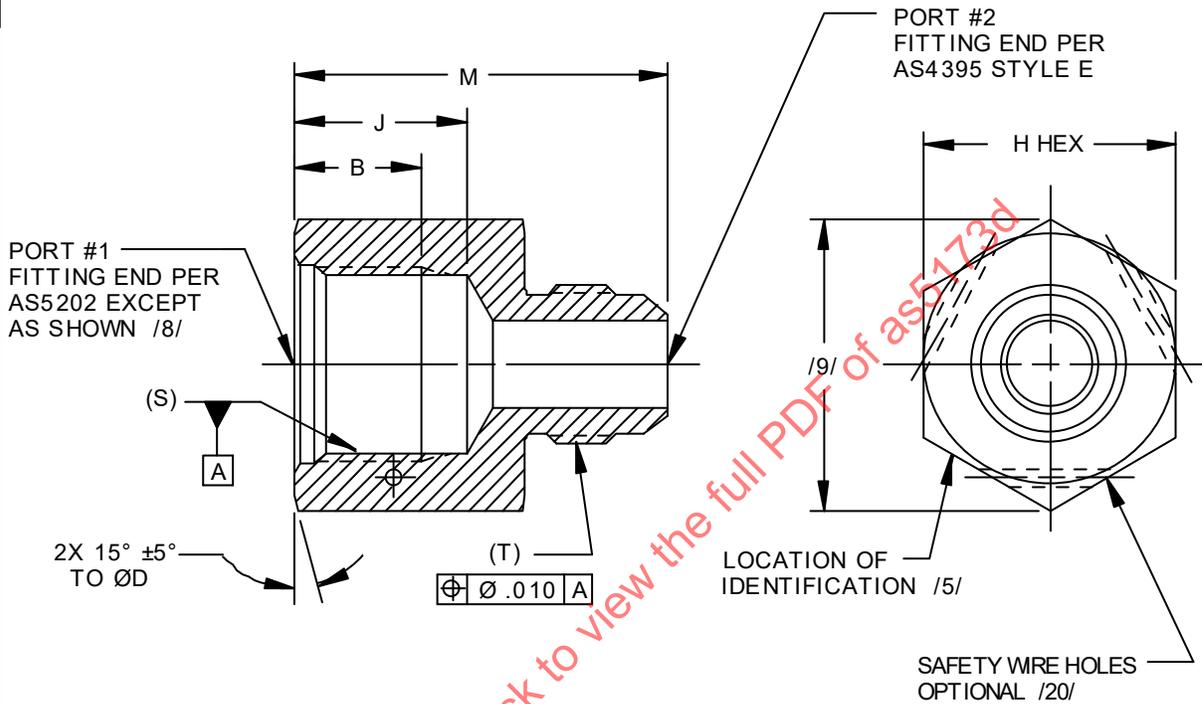
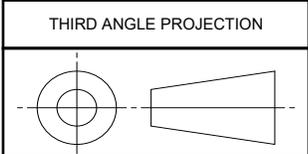


FIGURE 1 - FITTING

NOT RECOMMENDED IN PART /17/

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CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS4875/1 /4/



AEROSPACE STANDARD

(R) FITTING, BUSHING, PORT, REDUCER

AS5173™  
SHEET 1 OF 5

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ISSUED 2000-01 REAFFIRMED 2015-04 REVISED 2021-06

**TABLE 1A - DIMENSIONS B-D**

BASIC NO. AS5173 /15/ SIZE CODE	NOMINAL TUBE SIZE PORT #1	NOMINAL TUBE SIZE PORT #2	S THREAD PER AS8879 CLASS 3B	T THREAD PER AS8879 CLASS 3A	B MIN	D ±.010
0302	.188	.125	.3750-24 UNJF	.3125-24 UNJF	.538	.605
0402	.250	.125	.4375-20 UNJF	.3125-24 UNJF	.568	.668
0403	.250	.188	.4375-20 UNJF	.3750-24 UNJF	.568	.668
0504	.312	.250	.5000-20 UNJF	.4375-20 UNJF	.568	.730
0604	.375	.250	.5625-18 UNJF	.4375-20 UNJF	.470	.793
0605	.375	.313	.5625-18 UNJF	.5000-20 UNJF	.470	.793
0804	.500	.250	.7500-16 UNJF	.4375-20 UNJF	.562	.980
0805	.500	.313	.7500-16 UNJF	.5000-20 UNJF	.562	.980
0806	.500	.375	.7500-16 UNJF	.5625-18 UNJF	.562	.980
1004	.625	.250	.8750-14 UNJF	.4375-20 UNJF	.625	1.103
1005	.625	.313	.8750-14 UNJF	.5000-20 UNJF	.625	1.103
1006	.625	.375	.8750-14 UNJF	.5625-18 UNJF	.625	1.103
1008	.625	.500	.8750-14 UNJF	.7500-16 UNJF	.625	1.103
1206	.750	.375	1.0625-12 UNJ	.5625-18 UNJF	.688	1.353
1208	.750	.500	1.0625-12 UNJ	.7500-16 UNJF	.688	1.353
1210	.750	.625	1.0625-12 UNJ	.8750-14 UNJF	.688	1.353
1606	1.000	.375	1.3125-12 UNJ	.5625-18 UNJF	.688	1.603
1608	1.000	.500	1.3125-12 UNJ	.7500-16 UNJF	.688	1.603
1610	1.000	.625	1.3125-12 UNJ	.8750-14 UNJF	.688	1.603
1612	1.000	.750	1.3125-12 UNJ	1.0625-12 UNJ	.688	1.603
2008	1.250	.500	1.0625-12 UNJ	.7500-16 UNJF	.688	1.863
2010	1.250	.625	1.0625-12 UNJ	.8750-14 UNJF	.688	1.863
2012	1.250	.750	1.0625-12 UNJ	1.0625-16 UNJ	.688	1.863
2016	1.250	1.000	1.0625-12 UNJ	1.3125-12 UNJ	.688	1.863

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**TABLE 1B - DIMENSIONS H-M AND WEIGHTS**

BASIC NO. AS5173 /15/ SIZE CODE	H	J	M	LB/EA	LB/EA	LB/EA
				APPROX REF AL /18/	APPROX REF STEEL /18/	APPROX REF TI /18/
0302	.615- .628	.598	1.188	.0319	.0917	.0506
0402	.678- .691	.672	1.297	.0362	.104	.0573
0403	.678- .691	.672	1.297	.0378	.109	.0599
0504	.740- .753	.672	1.500	.0433	.124	.0685
0604	.806- .816	.630	1.391	.0511	.147	.0809
0605	.806- .816	.630	1.375	.0534	.153	.0846
0804	.990-1.003	.750	1.609	.0649	.186	.103
0805	.990-1.003	.750	1.547	.0672	.193	.107
0806	.990-1.003	.750	1.547	.0698	.200	.111
1004	1.113-1.128	.810	1.672	.0713	.205	.113
1005	1.113-1.128	.810	1.656	.0737	.212	.117
1006	1.113-1.128	.810	1.641	.0763	.219	.121
1008	1.113-1.128	.810	1.750	.090	.258	.143
1206	1.363-1.380	.940	1.813	.102	.294	.162
1208	1.363-1.380	.940	1.922	.116	.334	.184
1210	1.363-1.380	.940	2.016	.131	.376	.207
1606	1.613-1.630	.970	1.922	.123	.352	.194
1608	1.613-1.630	.970	2.032	.136	.391	.216
1610	1.613-1.630	.970	2.109	.151	.434	.293
1612	1.613-1.630	.970	2.203	.179	.514	.283
2008	1.863-1.880	1.010	2.172	.137	.392	.216
2010	1.863-1.880	1.010	2.250	.151	.435	.240
2012	1.863-1.880	1.010	2.238	.179	.515	.284
2016	1.863-1.880	1.010	2.297	.224	.642	.354

NOTES:

NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

/1/ MATERIAL:

- a. DASH AS CODE LETTER - TYPE 4130 STEEL BAR PER AMS-S-6758 OR AMS6370 OR TYPE 4140 PER AMS6349 OR AMS6382.
- 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 AMS4339. /17/
- c. CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS5639.
- d. CODE LETTER K - TYPE 316 COND A CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS5648.
- e. CODE LETTER R - TYPE 321 COND A CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS5645.
- f. CODE LETTER S - TYPE 347 CORROSION RESISTANT STEEL BAR PER AMS-QQ-S-763 OR AMS5646. /17/
- g. CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS4928.
- h. CODE LETTER W - TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9 OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS4124.

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/2/ HEAT TREATMENT:

- a. DASH AS MATERIAL CODE LETTER - SEE HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
- b. MATERIAL CODE LETTERS D AND W - REFER TO ELECTRICAL CONDUCTIVITY AND HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
- c. OTHER MATERIAL CODE LETTERS - NONE.

3. FINISH:

- a. DASH AS 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.
- b. MATERIAL CODE LETTER D:
  - 1. ANODIZE PER AMS2472 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. HIGH PURITY ALUMINUM COAT PER PROCUREMENT SPECIFICATION. /15/
- c. MATERIAL CODE LETTER J: PASSIVATE PER AMS2700 TYPE 6 OR TYPE 7 OR METHOD 2.
- d. MATERIAL CODE LETTER K: PASSIVATE PER AMS2700 TYPE 6 OR TYPE 7 OR METHOD 2.
- e. MATERIAL CODE LETTER R: PASSIVATE PER AMS2700 TYPE 6 OR TYPE 7 OR METHOD 2.
- f. MATERIAL CODE LETTER S: PASSIVATE PER AMS2700 TYPE 6 OR TYPE 7 OR METHOD 2.
- g. MATERIAL CODE LETTER T: ANODIZE PER AMS2488 TYPE 2 OR FLUORIDE PHOSPHATE COAT PER AMS2486, COLOR PER PROCUREMENT SPECIFICATION.
- h. MATERIAL CODE LETTER W:
  - 1. ANODIZE PER AMS2472 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. HIGH PURITY ALUMINUM COAT PER PROCUREMENT SPECIFICATION. /15/

/4/ PROCUREMENT SPECIFICATION: AS4875/1 EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT MANUFACTURED TO THIS STANDARD SHALL MEET THE REQUIREMENTS SPECIFIED HEREIN AND THE PROCUREMENT SPECIFICATION. ORIGINAL COMPONENT MANUFACTURERS (OCM) AND VALUE ADDED DISTRIBUTORS (VAD) SHALL BE LISTED IN THE NADCAP QUALIFIED MANUFACTURER LIST (QML) FOR THIS PRODUCT TYPE. THE QML IS AVAILABLE AT [www.eAuditNet.com](http://www.eAuditNet.com).

/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.

6. INTENDED USE: THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH MAXIMUM OPERATING PRESSURES AS SPECIFIED IN THE PROCUREMENT SPECIFICATION.

7. THIS STANDARD IS THE FUNCTIONAL EQUIVALENT OF AN894 AND MS24398, EXCEPT WITH LONGER "M" LENGTHS IN SOME SIZES, AND IS INTENDED TO BE SUITABLE AS A REPLACEMENT STANDARD.

/8/ THE INTERNAL DIAMETERS SHALL END IN A CONICAL END OF 115° MINIMUM INCLUDED ANGLE.

/9/ THE HEX CORNERS MAY BE ROUNDED PER ARP1942.

10. INTERPRETATION OF DRAWING PER AS4296.

	<b>AEROSPACE STANDARD</b>	<b>AS5173™</b> SHEET 4 OF 5	<b>REV.</b> <b>D</b>
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