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REV.
E

AS5172™

RATIONALE

FEDERAL SUPPLY CLASS
4730

OPTIONAL MATERIALS ADDED. FINISH NOTE REVISED. QML STATEMENT REVISED. INTENDED USE NOTE REVISED.

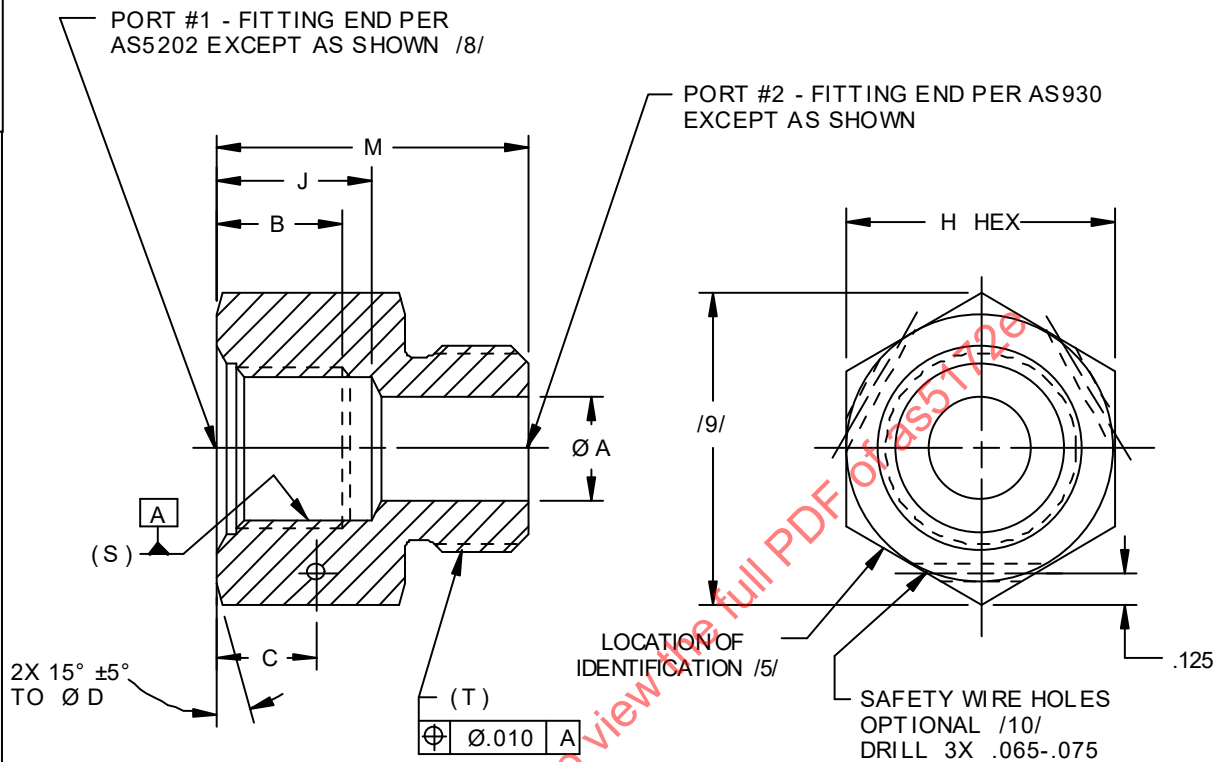
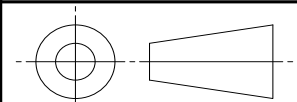


FIGURE 1 - FITTING ADAPTER

For more information on this standard, visit
<https://www.sae.org/standards/content/AS5172E/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS4875 /4/



AEROSPACE STANDARD

FITTING, ADAPTER, PORT, REDUCER

AS5172™
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ISSUED 2000-01 REAFFIRMED 2015-04 REVISED 2021-02

TABLE 1A - DIMENSIONS (A, B, C, AND D)

BASIC NO. AS5172 /16/ SIZE CODE	NOMINAL TUBE SIZE PORT #1	NOMINAL TUBE SIZE PORT #2	S THREAD PER AS8879 CLASS 3B	T THREAD PER AS8879 CLASS 3A	A	B MIN	C	D ±.010
0405	.250	.312	.4375-20 UNJF	.5000-20 UNJF	.230- .237	.456	.375	.730
0406	.250	.375	.4375-20 UNJF	.5625-18 UNJF	.293- .301	.456	.344	.793
0408	.250	.500	.4375-20 UNJF	.7500-16 UNJF	.387- .395	.568	.156	1.103
0410	.250	.625	.4375-20 UNJF	.8750-14 UNJF	N/A	.568	.156	1.103
0412	.250	.750	.4375-20 UNJF	1.0625-12 UNJ	N/A	.568	.203	1.353
0416	.250	1.000	.4375-20 UNJF	1.3125-12 UNJ	N/A	.568	.203	1.603
0420	.250	1.250	.4375-20 UNJF	1.6250-12 UNJ	N/A	.568	.203	1.863
0506	.312	.375	.5000-20 UNJF	.5625-18 UNJF	.293- .301	.456	.344	.793
0508	.312	.500	.5000-20 UNJF	.7500-16 UNJF	.387- .395	.568	.313	.980
0510	.312	.625	.5000-20 UNJF	.8750-14 UNJF	N/A	.568	.156	1.103
0512	.312	.750	.5000-20 UNJF	1.0625-12 UNJ	N/A	.568	.203	1.353
0516	.312	1.000	.5000-20 UNJF	1.3125-12 UNJ	N/A	.568	.203	1.603
0520	.312	1.250	.5000-20 UNJF	1.6250-12 UNJ	N/A	.568	.203	1.863
0608	.375	.500	.5625-18 UNJF	.7500-16 UNJF	.387- .395	.470	.313	.980
0610	.375	.625	.5625-18 UNJF	.8750-14 UNJF	.484- .488	.598	.313	1.103
0612	.375	.750	.5625-18 UNJF	1.0625-12 UNJ	N/A	.598	.203	1.353
0616	.375	1.000	.5625-18 UNJF	1.3125-12 UNJ	N/A	.598	.203	1.603
0620	.375	1.250	.5625-18 UNJF	1.6250-12 UNJ	N/A	.598	.203	1.863
0810	.500	.625	.7500-16 UNJF	.8750-14 UNJF	.484- .488	.562	.438	1.103
0812	.500	.750	.7500-16 UNJF	1.0625-12 UNJ	.604- .614	.714	.203	1.353
0816	.500	1.000	.7500-16 UNJF	1.3125-12 UNJ	N/A	.714	.203	1.603
0820	.500	1.250	.7500-16 UNJF	1.6250-12 UNJ	N/A	.714	.203	1.863
1012	.625	.750	.8750-14 UNJF	1.0625-12 UNJ	.604- .614	.625	.203	1.353
1016	.625	1.000	.8750-14 UNJF	1.3125-12 UNJ	N/A	.625	.203	1.603
1020	.625	1.250	.8750-14 UNJF	1.6250-12 UNJ	N/A	.802	.203	1.863
1216	.750	1.000	1.0625-12 UNJ	1.3125-12 UNJ	.839- .851	.688	.203	1.603
1220	.750	1.250	1.0625-12 UNJ	1.6250-12 UNJ	N/A	.688	.203	1.863
1620	1.000	1.250	1.3125-12 UNJ	1.6250-12 UNJ	1.073-1.086	.688	.203	1.863



AEROSPACE STANDARD

FITTING, ADAPTER, PORT, REDUCER

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TABLE 1B - DIMENSIONS (H, J, AND M) AND WEIGHTS

BASIC NO. AS5172 /16/ SIZE CODE	NOMINAL TUBE SIZE PORT #1	NOMINAL TUBE SIZE PORT #2	H	J	M	LB EA APPROX AL (REF)	LB EA APPROX STL (REF)	LB EA APPROX TI (REF)
0405	.250	.312	.740-.753	.620	1.150	.0477	.137	.0756
0406	.250	.375	.803-.816	.620	1.103	.0579	.166	.0918
0408	.250	.500	.990-1.003	.671	.763	.119	.341	.188
0410	.250	.625	1.113-1.128	THRU	.753	.124	.356	.196
0412	.250	.750	1.363-1.380	THRU	.855	.191	.550	.303
0416	.250	1.000	1.613-1.630	THRU	.855	.278	.799	.441
0420	.250	1.250	1.863-1.880	THRU	.855	.388	1.11	.615
0506	.312	.375	.803-.816	.620	1.134	.0552	.159	.0875
0508	.312	.500	.990-1.003	.671	1.081	.0927	.266	.147
0510	.312	.625	1.113-1.128	THRU	.753	.121	.346	.191
0512	.312	.750	1.363-1.380	THRU	.855	.188	.539	.297
0516	.312	1.000	1.613-1.630	THRU	.855	.275	.788	.435
0520	.312	1.250	1.863-1.880	THRU	.855	.384	1.10	.609
0608	.375	.500	.990-1.003	.630	1.153	.0905	.260	.143
0610	.375	.625	1.113-1.128	.724	1.128	.118	.338	.187
0612	.375	.750	1.363-1.380	THRU	.855	.184	.528	.291
0616	.375	1.000	1.613-1.630	THRU	.855	.271	.777	.429
0620	.375	1.250	1.863-1.880	THRU	.855	.380	1.09	.602
0810	.500	.625	1.113-1.128	.750	1.316	.104	.298	.164
0812	.500	.750	1.363-1.380	.849	1.230	.169	.484	.267
0816	.500	1.000	1.613-1.630	THRU	.855	.255	.733	.404
0820	.500	1.250	1.863-1.880	THRU	.855	.365	1.05	.578
1012	.625	.750	1.363-1.380	.810	1.417	.155	.455	.246
1016	.625	1.000	1.613-1.630	THRU	.855	.243	.697	.384
1020	.625	1.250	1.863-1.880	THRU	.855	.352	1.01	.558
1216	.750	1.000	1.613-1.630	.940	1.527	.213	.612	.338
1220	.750	1.250	1.863-1.880	THRU	.855	.330	.947	.523
1620	1.000	1.250	1.863-1.880	.970	1.542	.277	.795	.439

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: ALLOY STEEL BAR, TYPE 4130 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-A-225/6 OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-225/6 OR AMS4339.
- c. CODE LETTER J: TYPE 304 COND A CORROSION RESISTANT STEEL BAR PER AMS5639 OR AMS-QQ-S-763.
- d. CODE LETTER K: TYPE 316 COND A CORROSION RESISTANT STEEL BAR PER AMS5648 OR AMS-QQ-S-763.
- e. CODE LETTER R: TYPE 321 COND A CORROSION RESISTANT STEEL BAR PER AMS5645 OR AMS-QQ-S-763.
- f. CODE LETTER T: TYPE 6Al-4V TITANIUM ALLOY BAR PER AMS4928.
- g. CODE LETTER W: TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9 OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS4124.

2. HEAT TREATMENT:

- a. DASH AS MATERIAL CODE LETTER: REFER TO PROCUREMENT SPECIFICATION FOR HARDNESS REQUIREMENTS.
- b. OTHER MATERIAL CODE LETTERS: NONE.

3. FINISH:

- a. DASH AS MATERIAL CODE LETTER: CADMIUM PLATE PER AMS-QQ-P-416 TYPE II, CLASS 2, DYED BLACK AND COAT WITH A LIGHT FILM OF OIL PER PROCUREMENT SPECIFICATION.
- b. MATERIAL CODE LETTER D: ANODIZE PER AMS2472 OR MIL-A-8625, TYPE II, CLASS 2, DYED BLUE, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
- c. MATERIAL CODE LETTER J, K, OR R: PASSIVATE PER AMS2700, TYPE 6 OR 7.
- d. MATERIAL CODE LETTER T: ANODIZE PER AMS2488 TYPE 2 OR FLUORIDE PHOSPHATE COAT PER AMS2486, COLOR PER PROCUREMENT SPECIFICATION.
- e. MATERIAL CODE LETTER W: ANODIZE PER AMS2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.

/4/ PROCUREMENT SPECIFICATION: AS4875, 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.

/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 OPERATING PRESSURES AS SPECIFIED IN THE PROCUREMENT SPECIFICATION.

7. THIS STANDARD IS THE FUNCTIONAL EQUIVALENT OF AN893 AND MS24397, 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/ SUFFIX CODE LETTER L PARTS SHALL HAVE SAFETY WIRE HOLES AS SHOWN ON THIS STANDARD.

11. INTERPRETATION OF DRAWING PER AS4296.

	AEROSPACE STANDARD	AS5172™ SHEET 4 OF 5	REV. E
	FITTING, ADAPTER, PORT, REDUCER		