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REV.
A

AS5163™

RATIONALE

FEDERAL SUPPLY CLASS
4730

USAGE RESTRICTION NOTE ADD TO SHEET 1. CADMIUM WARNING NOTE ADDED. OPTIONAL MATERIALS ADDED TO NOTE 1. QML STATEMENT REVISED. INTENDED USE NOTE REVISED, NOTE 9 REVISED TO REFLECT CURRENT SPECIFICATION CALLOUT. REVISION INDICATOR NOTE ADDED. NOTE 16 ADDED. GENERAL NON-TECHNICAL UPDATES INCORPORATED.

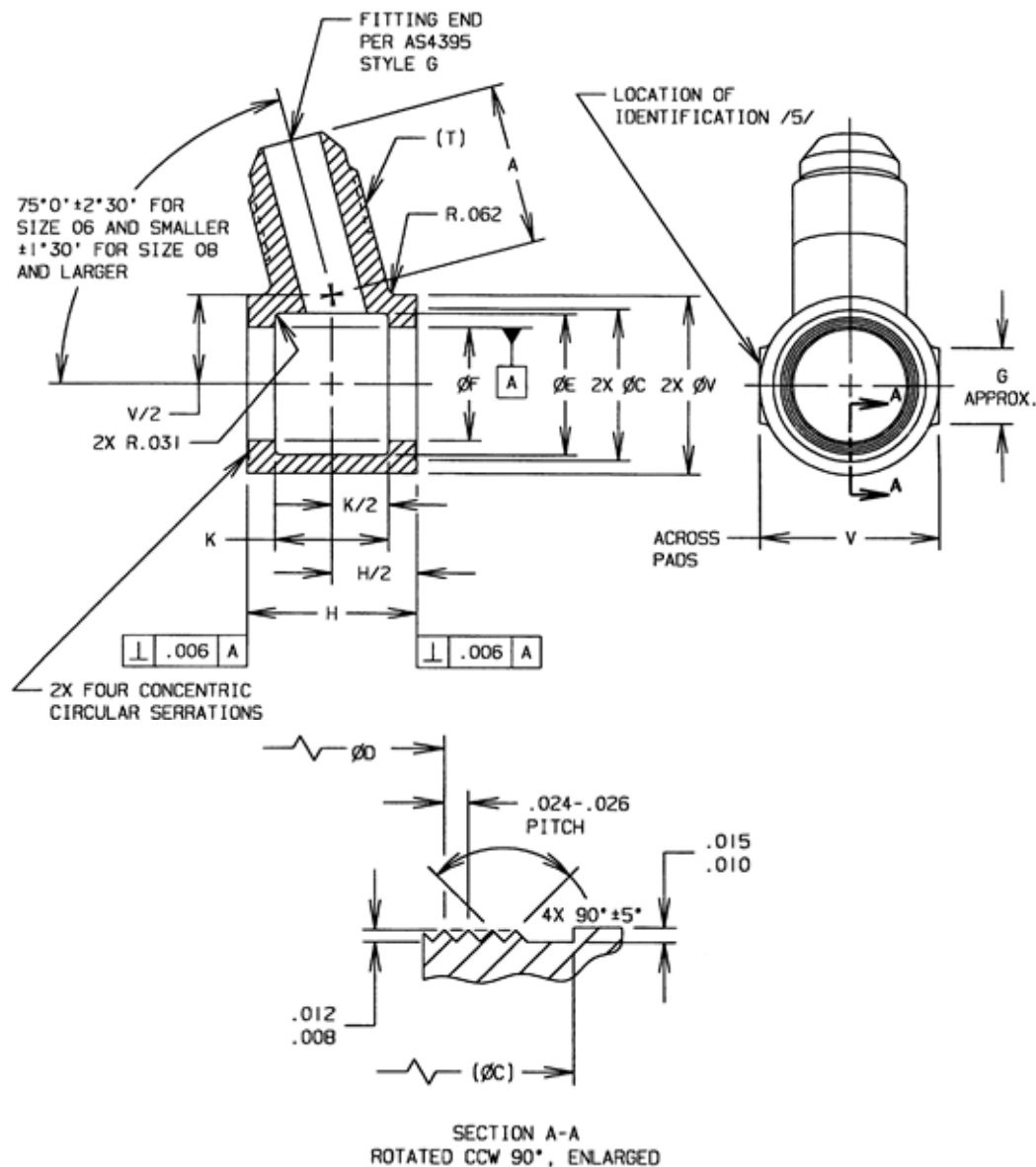
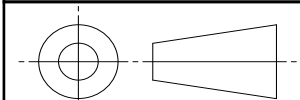


FIGURE 1 - FITTING, CONNECTOR, 75°

NOT RECOMMENDED IN PART 16/

For more information on this standard, visit
<https://www.sae.org/standards/content/AS5163A>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS4875/1 /4/



AEROSPACE STANDARD

FITTING, CONNECTOR, MULTIPLE
FLUID PRESSURE LINE, 75°

AS5163™
SHEET 1 OF 4

REV.
A

Documents

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TABLE 1A - DIMENSIONS A-F

BASIC NO. AS5163 /14/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3A	A ±.023	C ±.005	D ±.005	E	F ±.001
04	.250	.4375-20 UNJF	.836	.692	.474	.562	.439
05	.312	.5000-20 UNJF	.836	.755	.536	.625	.501
06	.375	.5625-18 UNJF	.898	.817	.599	.750	.564
08	.500	.7500-16 UNJF	1.054	1.005	.786	.937	.751
10	.625	.8750-14 UNJF	1.211	1.130	.911	1.125	.876
12	.750	1.0625-12 UNJ	1.336	1.318	1.099	1.375	1.063
16	1.000	1.3125-12 UNJ	1.523	1.568	1.349	1.687	1.313

TABLE 1B - DIMENSIONS G-V AND WEIGHTS

BASIC NO. AS5163 /14/ SIZE CODE	G	H ±.010	K	V	LB/EA APPROX REF AL	LB/EA APPROX REF STEEL	LB/EA APPROX REF TI
04	.437	.750	.375	.797-.815	.0244	.0700	.0386
05	.437	.750	.500	.797-.815	.0192	.0550	.0303
06	.500	.875	.500	.985-1.003	.0354	.102	.0560
08	.500	1.125	.750	1.173-1.191	.0536	.154	.0849
10	.625	1.375	.812	1.355-1.380	.0871	.250	.138
12	.625	1.625	1.000	1.668-1.693	.145	.415	.229
16	.812	2.125	1.500	2.042-2.072	.242	.695	.383

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:

- DASH AS CODE LETTER: TYPE 4130 CARBON STEEL FORGING OR BAR PER AMS-S-6758 OR AMS6370; OR TYPE 4140 PER AMS6349 OR AMS6382.
- CODE LETTER D: TYPE 2014-T6 ALUMINUM ALLOY FORGING PER AMS-QQ-A-367 OR AMS4133; OR TYPE 2024-T6 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6 OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6 OR AMS4339.
- CODE LETTER J: TYPE 304 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5639.
- CODE LETTER K: TYPE 316 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5648.
- CODE LETTER R: TYPE 321 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5645.
- CODE LETTER T: TYPE 6AL-4V TITANIUM ALLOY FORGING OR BAR PER AMS4928.
- CODE LETTER W: TYPE 7075-T73 ALUMINUM ALLOY FORGING PER AMS-QQ-A-367 OR AMS4141; OR TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9; OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS4124.

/2/ HEAT TREATMENT:

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

	AEROSPACE STANDARD		AS5163™ SHEET 2 OF 4	REV. A
	FITTING, CONNECTOR, MULTIPLE FLUID PRESSURE LINE, 75°			

 Documents

