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AS5010

FEDERAL SUPPLY CLASS
4730

RATIONALE

AS5010 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

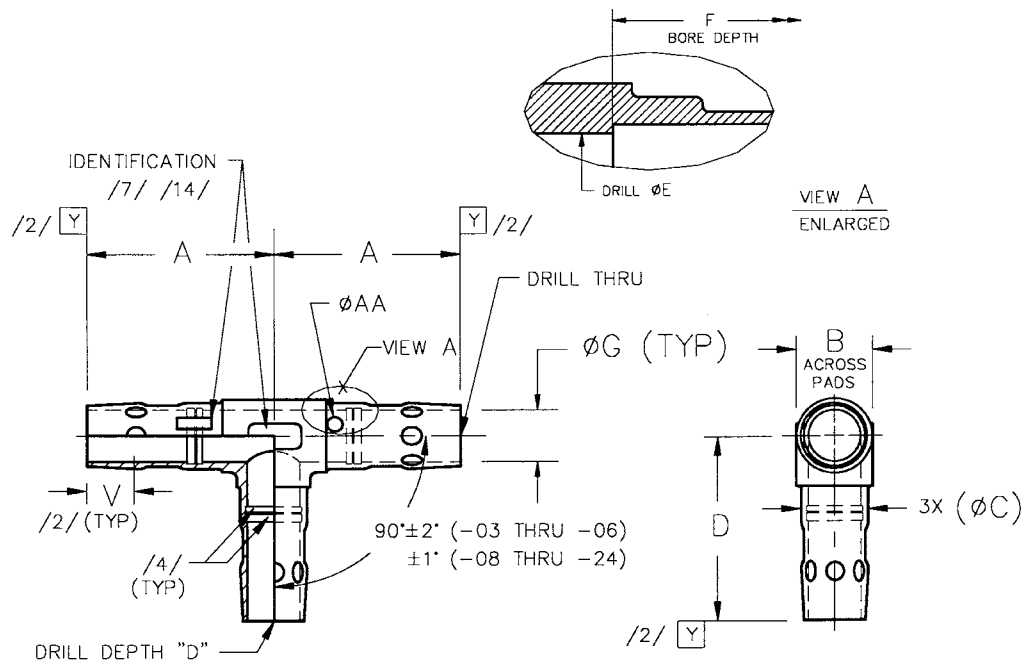


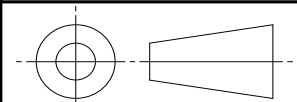
FIGURE 1 - TEE, EXTERNAL SWAGE

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO. AS5010 /14/ SIZE CODE	NOMINAL TUBE SIZE	A +.030 -.000	B ±.015	C +.000 -.003	D +.030 -.000	E	F +.030 -.000	G	V /2/	AA	LB/EA MAX CRES	LB/EA MAX TI	LB/EA MAX AL
03	.188	.860	.325	.275	.860	.182/.187	.715	.195/.198	.170/.220	.13	.0190	.0110	.00600
04	.250	1.050	.390	.338	1.050	.244/.249	.915	.257/.260	.190/.240	.22	.0310	.0180	.0110
05	.312	1.120	.465	.413	1.120	.303/.308	.955	.319/.322	.200/.250	.22	.0470	.0270	.0160
06	.375	1.190	.545	.480	1.190	.366/.371	.990	.382/.385	.220/.270	.22	.0510	.0330	.0200
08	.500	1.755	.705	.655	1.755	.482/.489	1.493	.508/.511	.410/.435	.50	.159	.0900	.0540
10	.625	1.860	.861	.787	1.860	.606/.614	1.533	.633/.636	.410/.435	.50	.229	.130	.0780
12	.750	1.990	1.036	.929	1.990	.731/.739	1.603	.758/.761	.365/.390	.50	.302	.172	.103
16	1.000	2.344	1.380	1.257	2.344	.981/.989	1.748	1.008/1.011	.325/.350	.50	.686	.380	.235
20	1.250	2.535	1.692	1.489	2.535	1.232/1.240	1.850	1.258/1.262	.325/.350	.50	.979	.554	.308
24	1.500	2.778	1.880	1.786	2.778	1.487/1.495	1.975	1.513/1.517	.325/.350	.50	1.40	.800	.481

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS5010>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /5/ AS4459



AEROSPACE STANDARD

FITTING, TEE, EXTERNAL SWAGE, HYDRAULIC

AS5010
SHEET 1 OF 2

Documents

NOTES:

/1/ MATERIAL:

- a. CODE LETTER "—": 21-6-9 CRES BAR PER AMS 5656
- b. CODE LETTER "E": COMMERCIALLY PURE TITANIUM BAR PER AMS 4921
- c. CODE LETTER "D": 6061-T6 ALUMINUM ALLOY PER AMS 4150

/2/ FINISH:

- a. MATERIAL CODE "—": PASSIVATE PER QQ-P-35 TYPE VII, PTFE COAT (COLOR GREEN) BORE DIAMETER TO "V" DEPTH, OVERSPRAY ON "Y" PERMISSIBLE.
- b. MATERIAL CODE "E": PTFE COAT (COLOR BLACK) EXTERIOR SURFACES AND BORE DIAMETER TO "V" DEPTH UNLESS OTHERWISE SPECIFIED, SEE NOTE /14/. $\varnothing$ AA TO BE FREE OF PTFE COATING.
- c. MATERIAL CODE "D": CHEMICAL FILM FINISH ENTIRE PART (INCLUDING INTERNAL DIAS) PER MIL-C-5541, CLASS 1A, PTFE COAT (GREEN) EXTERNAL SURFACE AND BORE DIAMETER TO "V" DEPTH.

3. LIQUID PENETRANT INSPECT PER ASTM E 1417 TYPE 1 SENSITIVITY LEVEL 2. LINEAR INDICATIONS PROHIBITED, ROUNDED INDICATIONS ACCEPTABLE.

- /4/ FILL OUTER GROOVE FOR CRES AND TITANIUM WITH SILICONE. FILL ALL GROOVES FOR ALUMINUM WITH SILICONE ELASTOMER.

- /5/ THIS PART SHALL BE QUALIFIED TO THE PROCUREMENT SPECIFICATION IN A COMPLETE ASSEMBLY. USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVAL(S) BY STANDARD PAGE SUPPLEMENT SHEET OR SIMILAR MEANS.

6. SPECIFIC DIMENSIONS AND TOLERANCES NOT DEFINED ON THIS STANDARD SHALL BE SPECIFIED AND CONTROLLED BY THE MANUFACTURER. THE MANUFACTURER IS RESPONSIBLE TO ENSURE COMPLIANCE WITH THE PROCUREMENT SPECIFICATION.

- /7/ IDENTIFICATION: PARTS SHALL BE IDENTIFIED IN THE AREA SHOWN PER AS4459.

8. INTENDED USE: PER AS4459.

9. INTERPRETATION OF DRAWING PER ARP4296.

10. SURFACE TEXTURE: SYMBOLS PER ANSI Y14.36; REQUIREMENTS PER ANSI/ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 μ in Ra.

11. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.

12. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.

13. DIMENSIONS IN INCHES; UNLESS OTHERWISE SPECIFIED, TOLERANCES: DIMENSIONS LINEAR $\pm$.010, ANGULAR $\pm$ 2°.

/14/ **EXAMPLE OF PART NUMBER: AS5010 E 08 N**

BASIC PART NUMBER

MATERIAL CODE LETTER /1/

NO EXTERIOR PTFE REQUIRED
(TITANIUM ONLY)

BLANK = EXTERIOR PTFE REQUIRED

TUBE SIZE IN .062 in
INCREMENTS (08 = .500 in)

	AEROSPACE STANDARD FITTING, TEE, EXTERNAL SWAGE, HYDRAULIC	AS5010 SHEET 2 OF 2	
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