

REV.
A

SAE AS6045

FEDERAL SUPPLY CLASS
4730

RATIONALE

CORRECTED THREAD SIZE FOR -14
CORRECTED THREAD SPECIFICATION
ADDED FINISH REQUIREMENT FOR ALUMINUM
CORRECTED ANODIZE HEAT TREAT

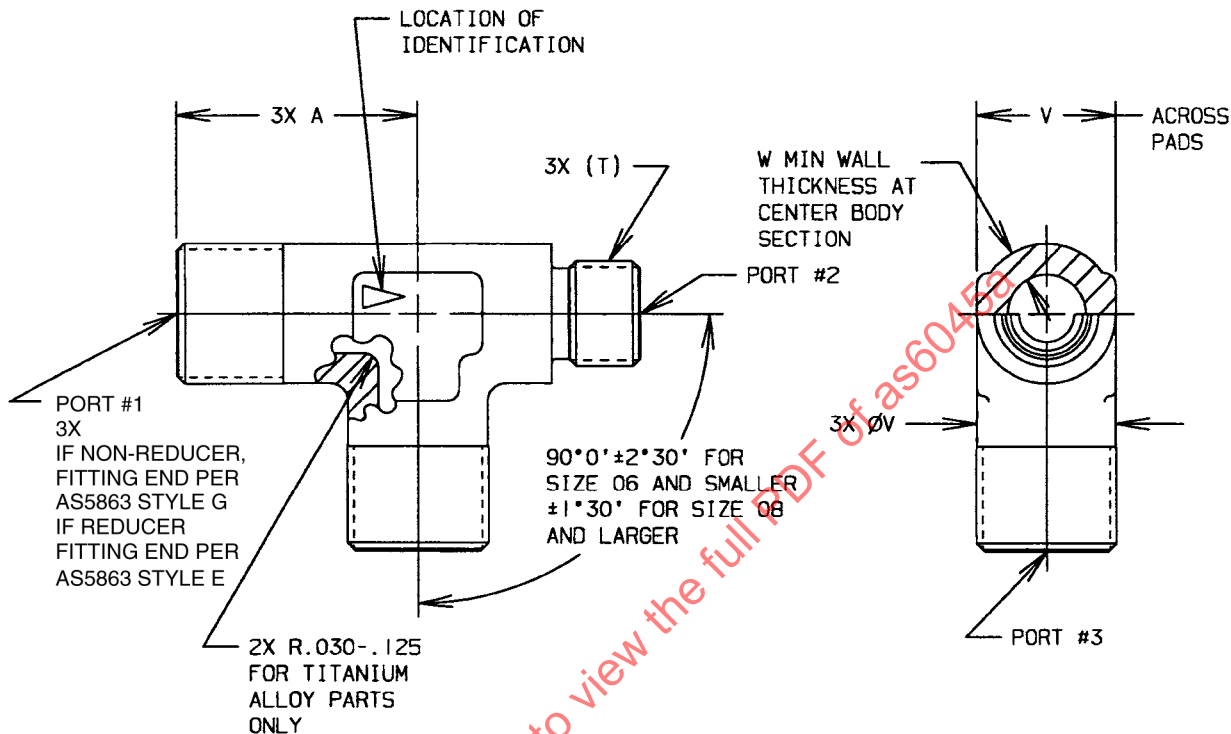
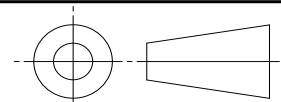


FIGURE 1 - FITTING, TEE, PORT #2 SHOWN AS REDUCER

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS6045A>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /5/ AS18280

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

FITTING, TEE,
STANDARD AND REDUCER,
FLARELESS, PRECISION TYPE

SAE AS6045
SHEET 1 OF 4

REV.
A

TABLE 1 - DIMENSIONS AND WEIGHTS /9/ /10/

BASIC NO. AS1005 /19/ SIZE CODE	V	W	LB/EA APPROX REF ALUM	LB/EA APPROX REF STEEL	LB/EA APPROX REF TI
02	.297- .314	.090	.0142	.0408	.0225
03	.360- .377	.100	.0217	.0624	.0344
04	.423- .440	.110	.0287	.0824	.0455
05	.485- .502	.120	.0386	.111	.0611
06	.547- .565	.120	.0491	.141	.0778
08	.735- .753	.150	.100	.287	.158
10	.860- .878	.170	.126	.361	.199
12	1.047-1.065	.185	.222	.638	.352
14	1.173-1.191	.200	.278	.799	.441
16	1.292-1.317	.205	.333	.956	.528
20	1.605-1.630	.240	.549	1.58	.870
24	1.855-1.880	.250	.682	1.96	1.08
32	2.542-2.572	.350	1.55	4.44	2.45

TABLE 2 - LEG LENGTH A /9/ /11/

FORGING SIZE	02	03	04	05	06	08	10	12	14	16	20	24	32
02	.773	-	-	-	-	-	-	-	-	-	-	-	-
03	.789	.836	-	-	-	-	-	-	-	-	-	-	-
04	.820	.867	.898	-	-	-	-	-	-	-	-	-	-
05	.883	.930	.961	.961	-	-	-	-	-	-	-	-	-
06	.961	1.008	1.039	1.039	1.055	-	-	-	-	-	-	-	-
08	1.086	1.133	1.164	1.164	1.180	1.273	-	-	-	-	-	-	-
10	1.180	1.226	1.258	1.258	1.274	1.367	1.430	-	-	-	-	-	-
12	1.272	1.320	1.351	1.351	1.367	1.460	1.523	1.586	-	-	-	-	-
14	1.398	1.445	1.476	1.476	1.492	1.585	1.648	1.742	1.680	-	-	-	-
16	1.429	1.476	1.507	1.507	1.523	1.616	1.679	1.742	1.742	1.742	-	-	-
20	1.585	1.632	1.663	1.663	1.679	1.772	1.835	1.898	1.898	1.898	1.898	-	-
24	1.710	1.757	1.788	1.788	1.804	1.897	1.960	2.023	2.023	2.023	2.023	2.023	-
32	2.148	2.195	2.226	2.226	2.242	2.335	2.398	2.461	2.461	2.461	2.461	2.461	2.461

TABLE 3 - TUBE SIZE AND CORRESPONDING THREAD

PORT SIZE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879
02	.125	.3125-24 UNJF
03	.188	.3750-24 UNJF
04	.250	.4375-20 UNJF
05	.312	.5000-20 UNJF
06	.375	.5625-18 UNJF
08	.500	.7500-16 UNJF
10	.625	.8750-14 UNJF
12	.750	1.0625-12 UNJ
14	.875	1.1875-12 UNJ
16	1.000	1.3125-12 UNJ
20	1.250	1.6250-12 UNJ
24	1.500	1.8750-12 UNJ
32	2.000	2.5000-12 UNJ

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. CODE LETTER T – TYPE 6AL-4V TITANIUM ALLOY PER PROCUREMENT SPECIFICATION
- b. CODE LETTER V – TYPE 15-5PH, CONDITION H1075 STA, CORROSION RESISTANT STEEL PER PROCUREMENT SPECIFICATION
- c. CODE LETTER W – TYPE 7075-T73 ALUMINUM ALLOY BAR OR FORGING, OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER PROCUREMENT SPECIFICATION

2. HEAT TREATMENT:

- a. MATERIAL CODE LETTER T – ANNEALED PER PROCUREMENT SPECIFICATION
- b. MATERIAL CODE LETTER V – AGE TO CONDITION H1075 PER PROCUREMENT SPECIFICATION
- c. MATERIAL CODE LETTER W – ELECTRICAL CONDUCTIVITY AND HARDNESS PER PROCUREMENT SPECIFICATION

/3/ FINISH:

- a. MATERIAL CODE LETTER T – ANODIZE OR FLUORIDE PHOSPHATE CONVERSION COAT PER PROCUREMENT SPECIFICATION
- b. MATERIAL CODE LETTER V:
 1. V CODE PARTS TO BE PASSIVATED ONLY WILL HAVE NO FINISH CODE LETTER AFTER THE SIZE CODE IN THE PART NUMBER. THE FINISH WILL BE: PASSIVATE PER PROCUREMENT SPECIFICATION
 2. V CODE PARTS TO BE CADMIUM PLATED ONLY SHALL HAVE THE FINISH CODE LETTER "P" AFTER THE SIZE CODE IN THE PART NUMBER. THE FINISH WILL BE: CADMIUM PLATE PER PROCUREMENT SPECIFICATION
- c. MATERIAL CODE LETTER W – ANODIZE PER PROCUREMENT SPECIFICATION

/4/ OXYGEN SYSTEM AND COMPONENT CLEANING, SUFFIX LETTER A /19/:

- a. MATERIAL CODE LETTER P – CLEAN AND PACKAGE PER ARP1176 CATEGORY 1C
- b. MATERIAL CODE LETTER W – CLEAN AND PACKAGE PER ARP1176 CATEGORY 2