

REV.
A

SAE AS6046

FEDERAL SUPPLY CLASS
4730

RATIONALE

-14 SIZE THREAD CORRECTED
THREAD SPEC CORRECTED
W HARDNESS CORRECTED

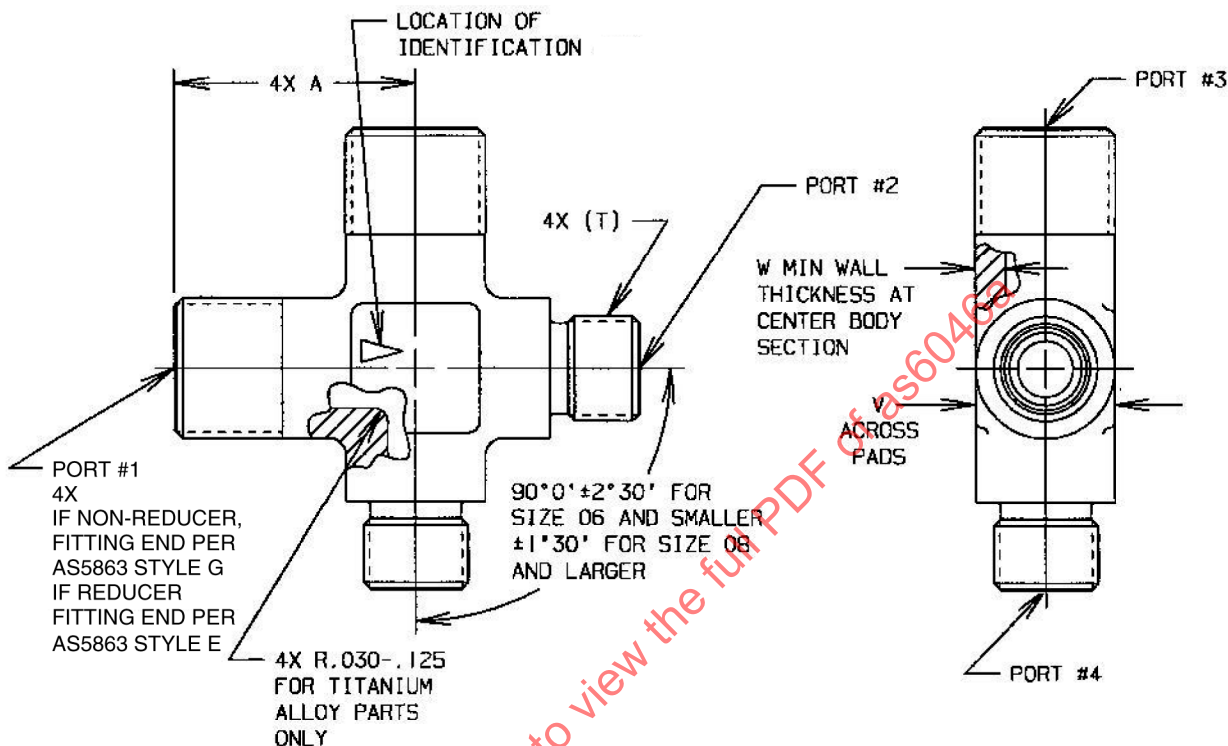
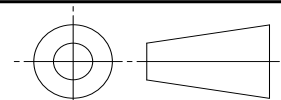


FIGURE 1 - FITTING, CROSS, PORT #2 AND PORT #4 SHOWN AS REDUCER

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS6046A>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /5/ AS18280

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

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

SAE AS6046
SHEET 1 OF 4

REV.
A

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

BASIC NO. AS6046 /19/ SIZE CODE	V	W	LB/EA APPROX REF ALUM	LB/EA APPROX REF STEEL	LB/EA APPROX REF TI
02	.297- .314	.090	.0180	.0516	.0285
03	.360- .377	.100	.0273	.0783	.0432
04	.423- .440	.110	.0356	.102	.0565
05	.485- .502	.120	.0477	.137	.0755
06	.547- .565	.120	.0604	.173	.0956
08	.735- .753	.150	.122	.349	.193
10	.860- .878	.170	.156	.447	.246
12	1.047-1.065	.185	.265	.762	.420
14	1.173-1.191	.200	.330	.950	.522
16	1.292-1.317	.205	.391	1.12	.619
20	1.605-1.630	.240	.631	1.81	1.00
24	1.855-1.880	.250	.770	2.21	1.22
32	2.542-2.572	.350	1.70	4.87	2.69

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 8879
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, 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