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REV.
K

AS1036™

RATIONALE

FEDERAL SUPPLY CLASS
4730

"LARGER OR EQUAL TO PORT #4" RELOCATED FROM INFORMATION REGARDING PORT #2 TO INFORMATION REGARDING PORT #3 IN NOTE 19.

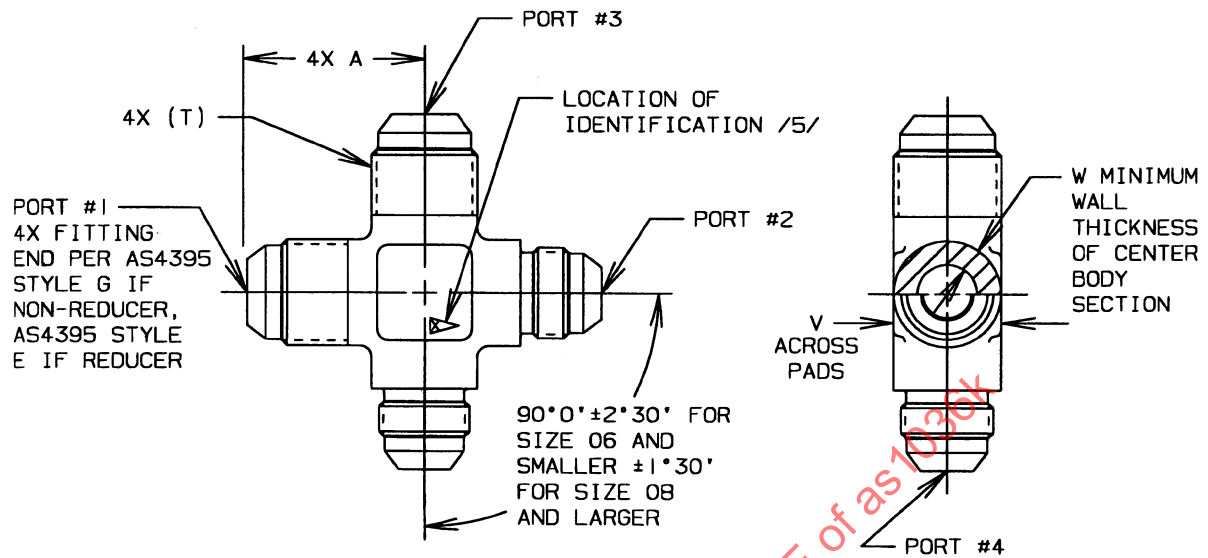


FIGURE 1 - CROSS, FLARED

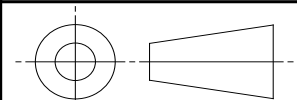
NOT RECOMMENDED IN PART /20/

TABLE 1 - DIMENSIONS AND WEIGHTS /12/

BASIC NO. AS1036 /11/ /19/ SIZE CODE	V	W	LB/EA APPROX REF ALUM	LB/EA APPROX REF STEEL	LB/EA APPROX REF TI
02	.297-.314	.090	.0155	.0446	.0246
03	.360-.377	.100	.0225	.0645	.0356
04	.423-.440	.110	.0302	.0869	.0480
05	.485-.502	.120	.0392	.113	.0620
06	.547-.565	.120	.0510	.147	.081
08	.735-.753	.150	.106	.306	.168
10	.860-.878	.170	.140	.402	.221
12	1.047-1.065	.185	.256	.733	.404
16	1.292-1.317	.205	.363	1.04	.574
20	1.605-1.630	.240	.599	1.72	.95
24	1.855-1.880	.250	.815	2.34	1.29
28	2.238-2.263	.310	1.686	5.38	2.75
32	2.542-2.572	.350	1.953	6.06	3.10

For more information on this standard, visit
<https://www.sae.org/standards/content/AS1036K/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS4841 /4/



AEROSPACE STANDARD

FITTING, CROSS,
STANDARD AND REDUCER,
FLARED

AS1036™
SHEET 1 OF 4

REV.
K

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ISSUED 1962-08 REAFFIRMED 2007-07 REVISED 2020-08

TABLE 2 - LEG LENGTH A

	TUBE SIZE OF PORT	TUBE SIZE OF PORT	TUBE SIZE OF PORT	TUBE SIZE OF PORT	TUBE SIZE OF PORT	TUBE SIZE OF PORT	TUBE SIZE OF PORT	TUBE SIZE OF PORT	TUBE SIZE OF PORT	TUBE SIZE OF PORT	TUBE SIZE OF PORT	TUBE SIZE OF PORT	TUBE SIZE OF PORT
FORGING SIZE /11/	#1, #2, #3, #4 02	#1, #2, #3, #4 03	#1, #2, #3, #4 04	#1, #2, #3, #4 05	#1, #2, #3, #4 06	#1, #2, #3, #4 08	#1, #2, #3, #4 10	#1, #2, #3, #4 12	#1, #2, #3, #4 16	#1, #2, #3, #4 20	#1, #2, #3, #4 24	#1, #2, #3, #4 28	#1, #2, #3, #4 32
02	.757	-	-	-	-	-	-	-	-	-	-	-	-
03	.789	.820	-	-	-	-	-	-	-	-	-	-	-
04	.789	.811	.882	-	-	-	-	-	-	-	-	-	-
05	.843	.874	.945	.945	-	-	-	-	-	-	-	-	-
06	.946	.977	1.048	1.048	1.054	-	-	-	-	-	-	-	-
08	1.033	1.064	1.135	1.135	1.141	1.242	-	-	-	-	-	-	-
10	1.135	1.166	1.237	1.237	1.243	1.344	1.445	-	-	-	-	-	-
12	1.232	1.263	1.334	1.334	1.340	1.441	1.542	1.648	-	-	-	-	-
16	1.341	1.372	1.443	1.443	1.449	1.550	1.651	1.757	1.804	-	-	-	-
20	1.544	1.575	1.646	1.646	1.652	1.753	1.854	1.960	2.007	2.054	-	-	-
24	1.685	1.716	1.787	1.787	1.793	1.894	1.995	2.101	2.148	2.195	2.320	-	-
28	2.068	2.099	2.170	2.170	2.176	2.277	2.378	2.484	2.531	2.578	2.703	2.828	-
32	2.169	2.200	2.271	2.271	2.277	2.378	2.479	2.585	2.632	2.679	2.804	2.929	3.054

TABLE 3 - TUBE SIZE AND CORRESPONDING THREAD

PORT SIZE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3A
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
16	1.000	1.3125-12 UNJ
20	1.250	1.6250-12 UNJ
24	1.500	1.8750-12 UNJ
28	1.750	2.2500-12 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:

- DASH AS CODE LETTER - TYPE 4130 STEEL FORGING OR BAR PER AMS6370 OR AMS-S-6758, OR TYPE 4140 STEEL BAR PER AMS6349 OR AMS6382.
- CODE LETTER D - TYPE 2014-T6 ALUMINUM ALLOY FORGING PER AMS4133 OR AMS-QQ-A-367; OR 2024-T6 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6; OR 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6. /20/
- CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS5639.
- CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS5648.

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- e. CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS5645.
 - f. CODE LETTER S - TYPE 347 CORROSION RESISTANCE STEEL FORGING OR BAR PER AMS5646. /20/
 - g. CODE LETTER T - 6AL-4V TITANIUM ALLOY FORGING OR BAR PER AMS4928.
 - h. CODE LETTER W - 7075-T73 ALUMINUM ALLOY FORGING PER AMS4141 OR AMS-QQ-A-367; OR 7075-T7351 ALUMINUM ALLOY BAR PER AMS4124; OR 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9.
2. HEAT TREATMENT:
- a. DASH AS CODE LETTER - SEE HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
 - b. MATERIAL CODE LETTERS D AND W - SEE ELECTRICAL CONDUCTIVITY AND HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
 - c. OTHER MATERIAL CODE LETTERS - NONE.
- /3/ FINISH:
- a. DASH AS CODE LETTER - CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2, DYE BLACK.
 - b. MATERIAL CODE LETTER D:
 - 1. ANODIZE PER AMS2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BLUE, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
 - 2. D CODE PARTS TO BE COATED WITH HIGH PURITY ALUMINUM ONLY WILL HAVE THE FINISH CODE LETTER "V" PLACED AFTER THE SIZE CODE IN THE PART NUMBER. HIGH PURITY ALUMINUM COAT PER PROCUREMENT SPECIFICATION. /19/
 - c. MATERIAL CODE LETTER J - PASSIVATE PER AMS2700, TYPE 6 OR 7.
 - d. MATERIAL CODE LETTER K - PASSIVATE PER AMS2700, TYPE 6 OR 7.
 - e. MATERIAL CODE LETTER R - PASSIVATE PER AMS2700, TYPE 6 OR 7.
 - f. MATERIAL CODE LETTER S - PASSIVATE PER AMS2700, TYPE 6 OR 7.
 - g. MATERIAL CODE LETTER T - ANODIZE PER AMS2488, TYPE 2 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS2486.
 - h. MATERIAL CODE LETTER W:
 - 1. ANODIZE PER AMS2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.
 - 2. W CODE PARTS TO BE COATED WITH HIGH PURITY ALUMINUM ONLY WILL HAVE THE FINISH CODE LETTER "V" PLACED AFTER THE SIZE CODE IN THE PART NUMBER. HIGH PURITY ALUMINUM COAT PER PROCUREMENT SPECIFICATION. /19/
- /4/ PROCUREMENT SPECIFICATION: AS4841 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.
- a. FOR SIZE 06 AND SMALLER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, LETTERS "AS," AND MATERIAL CODE LETTER FOR CORROSION RESISTANT STEEL, TITANIUM, AND ALUMINUM, AND NO MATERIAL CODE LETTER FOR ALLOY STEEL.
 - b. FOR SIZE 08 AND LARGER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, BASIC PART NUMBER, AND MATERIAL CODE LETTER FOR CORROSION RESISTANT STEEL, TITANIUM, AND ALUMINUM, AND NO MATERIAL CODE LETTER FOR ALLOY STEEL.
6. INVENTORIED PARTS CONFORMING TO THE PREVIOUS "LETTER CHANGE" MAY BE USED TO DEPLETION.
7. INTENDED USE: THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH MAXIMUM OPERATING PRESSURES AS SPECIFIED IN THE PROCUREMENT SPECIFICATION.

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