

REV.
B

AS4862™

RATIONALE

“INACTIVE” STATUS REPLACED BY “NOT RECOMMENDED.” ALTERNATE MATERIAL ADDED TO NOTES 1.a, d, e, AND f. NEW NOTE 2b ADDED. “COLOR NATURAL” ADDED TO CADMIUM PLATING FOR MATERIAL CODE LETTER B. SPECIFICATION CALLOUTS UPDATED TO CURRENT ISSUE. QML STATEMENT REVISED. “INTENDED USE” NOTE REVISED. TABLE 2 REMOVED. USE OF TITANIUM AND CADMIUM IN OXYGEN AND POTABLE WATER SYSTEM WARNING NOTE REMOVED.

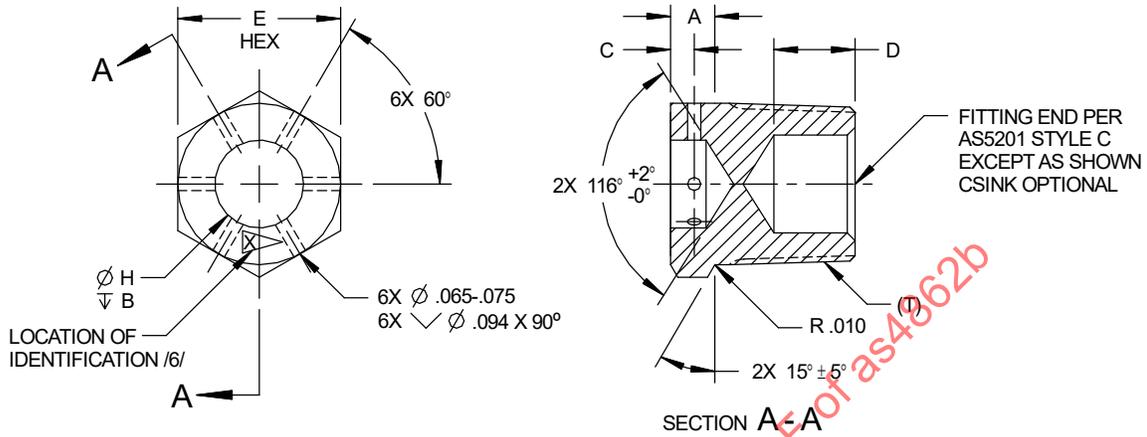
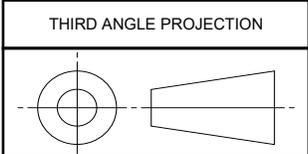


FIGURE 1 - PLUG, PIPE, EXTERNAL THREAD, HEX HEAD

NOT RECOMMENDED IN PART /17/

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CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS4842 /5/



AEROSPACE STANDARD

(R) FITTING, PLUG, PIPE,
EXTERNAL THREAD,
HEX HEAD

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TABLE 1 - DIMENSIONS

BASIC NO. AS4862 /14/ SIZE CODE	T THREAD PER AS71051 ANPT	A	B	C	D ±.020	E	H
00	.063-27	.219	.156	.094	--	.371- .378	.188
01	.125-27	.219	.156	.094	--	.433- .440	.219
02	.250-18	.234	.156	.094	.330	.621- .629	.312
03	.375-18	.297	.156	.094	.340	.746- .754	.375
04	.500-14	.312	.188	.125	.430	.933- .941	.469
06	.750-14	.375	.188	.125	.400	1.120-1.130	.562
08	1.000-11.5	.406	.188	.125	.540	1.370-1.380	.688
10	1.250-11.5	.406	.203	.125	.390	1.734-1.766	.875
12	1.500-11.5	.406	.203	.125	.290	1.984-2.016	1.000
16	2.000-11.5	.406	.203	.125	.140	2.480-2.520	1.125
20	2.500-8	.406	.203	.125	.380	2.980-3.020	1.500

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 CODE:

- a. DASH AS A MATERIAL CODE LETTER - TYPE 4130 STEEL BAR PER AMS-S-6758 OR AMS6370, OR TYPE 4140 STEEL BAR PER AMS6349 OR AMS6382.
- b. CODE LETTER B - 377 COPPER ALLOY FORGING PER ASTM B124/B124M, OR FORGING OR BAR PER ASTM B138/B138M HALF HARD, OR BAR PER AMS4614.
- c. 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. /17/
- d. CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5639.
- e. CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5648.
- f. CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5645.
- g. CODE LETTER S - TYPE 347 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5646. /17/
- h. CODE LETTER T - 6AL-4V TITANIUM ALLOY FORGING OR BAR PER AMS4928.
- i. CODE LETTER W - TYPE 7075-T73 ALUMINUM ALLOY FORGING PER AMS-QQ-A-367 OR AMS4141, TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9, OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS4124.

2. HEAT TREATMENT:

- a. DASH AS CODE LETTER - HARDNESS SHALL BE 92 HRB TO 40 HRC 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.

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/3/ FINISH:

- a. DASH AS A MATERIAL CODE LETTER - CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2, DYED BLACK.
 - b. MATERIAL CODE LETTER B:
 - 1. MATERIAL CODE LETTER B - NO FINISH.
 - 2. B CODED PARTS TO BE CADMIUM PLATED PER AMS-QQ-P-416 TYPE II, CLASS 3, COLOR "NATURAL," WILL HAVE THE FINISH CODE LETTER "P" PLACED AFTER THE SIZE CODE IN THE PART NUMBER. /14/
 - c. MATERIAL CODE LETTER D - ANODIZE PER MIL-A-8625, TYPE II, CLASS 2 OR AMS2472, DYE BLUE.
 - d. MATERIAL CODE LETTER J - PASSIVATE PER AMS2700, TYPE 6 OR 7.
 - e. MATERIAL CODE LETTER K - PASSIVATE PER AMS2700, TYPE 6 OR 7.
 - f. MATERIAL CODE LETTER R - PASSIVATE PER AMS2700, TYPE 6 OR 7.
 - g. MATERIAL CODE LETTER S - PASSIVATE PER AMS2700, TYPE 6 OR 7.
 - h. MATERIAL CODE LETTER T - ANODIZE PER AMS2488, TYPE 2 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS2486.
 - i. CODE LETTER W - ANODIZE PER AMS2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BROWN SIMILAR TO COLOR 10080 OF AMS-STD-595.
- /4/ PARTS USED IN OXYGEN SYSTEMS SHALL BE IDENTIFIED IN THE PART NUMBER AS CODE "A" AND SHALL BE FURNISHED CLEAN, PACKAGED, AND LABELED IN ACCORDANCE WITH ARP1176 TO A PROCESS APPROVED BY THE USER. /17/
- /5/ PROCUREMENT SPECIFICATION: AS4842 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.
- /6/ IDENTIFICATION: MARK PER AS478 CLASS C OR D, OR METHOD 7A3, 15A3, OR 15B.
- a. FOR SIZES 03 AND SMALLER: MANUFACTURER'S NAME, TRADEMARK OR CAGE CODE, LETTERS "AS," MATERIAL CODE LETTER, AND FORGING MANUFACTURER'S IDENTIFICATION, WHEN MADE FROM FORGING.
 - b. FOR SIZES 04 AND LARGER: MANUFACTURER'S NAME, TRADEMARK OR CAGE CODE, BASIC PART NO., MATERIAL CODE LETTER, AND FORGING MANUFACTURER'S IDENTIFICATION, WHEN MADE FROM FORGING.
 - c. IF SPACE IS PROHIBITIVE, INFORMATION MAY BE MARKED ON THE PACKAGE PER AS478 METHOD 37. AS A MINIMUM, MATERIAL CODE LETTER AND MANUFACTURER'S TRADEMARK SHOULD APPEAR ON THE PART.
7. INTENDED USE: THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH MAXIMUM OPERATING PRESSURES AS SPECIFIED IN THE PROCUREMENT SPECIFICATION.
8. THIS STANDARD IS THE FUNCTIONAL EQUIVALENT OF AN933 AND IS INTENDED AS A SUITABLE REPLACEMENT STANDARD.
9. INTERPRETATION OF DRAWING PER AS4296.
10. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 MICRINCHES Ra.
11. BREAK ALL SHARP EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.
12. DIMENSIONS AND TOLERANCING: PER ASME Y14.5M-1994.

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