

INCH-POUND

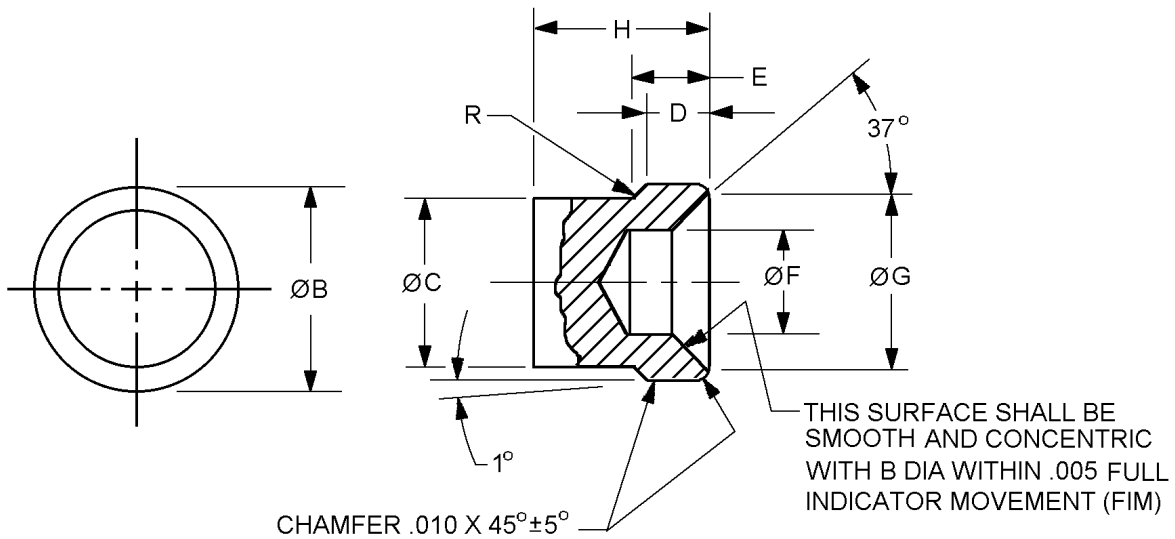
AN929 Rev 12  
 16 February 2010  
 SUPERSEDING  
 AN929 Rev 11  
 23 March 1983

DETAIL SPECIFICATION SHEET

CAP, ASSEMBLY, PRESSURE SEAL,  
 FLARED TUBE FITTING

This specification is approved for use by all Departments and Agencies  
 of the Department of Defense .

The requirements for acquiring the product described herein shall consist of this specification sheet and  
 SAE-AS4841.

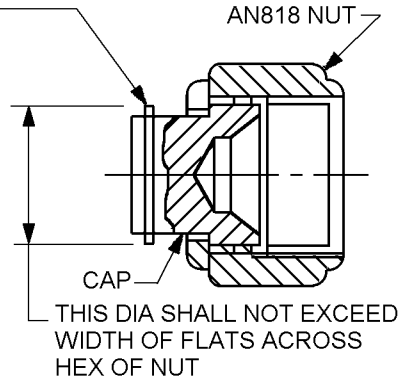
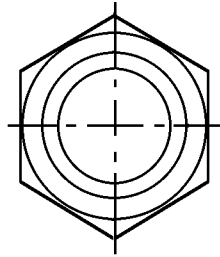


Inches	mm
.005	0.13
.010	0.25

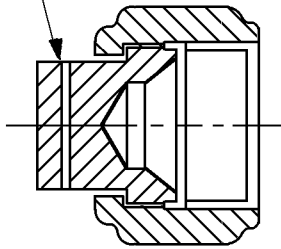
FIGURE 1. Cap.

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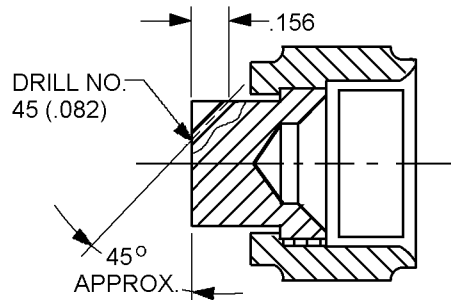
METHOD OF PREVENTING MOVABLE CAP FROM FALLING OUT, OPTIONAL WITH MANUFACTURER UPON APPROVAL BY THE PROCURING ACTIVITY



DRILL NO. 45 (.082) HOLE THROUGH HOLE TO BE APPROX. CENTERED BETWEEN END OF NUT AND END OF CAP



DETAIL FOR DRILLING AN929A2 AND AN929A3



DETAIL FOR DRILLING AN929A4 AND LARGER

CAP DRILLED FOR ATTACHING SAFETY CHAIN

CAP ASSEMBLY

CAP ASSEMBLY

Inches	mm
.082	2.08
.156	3.96

FIGURE 1. Cap – Continued.

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Dash number	Tube OD inches (mm)	B dia inches (mm) +.000 -.003 (0.08)	C dia. inches (mm)	D inches (mm)	E inches (mm)
-2	.125 (3.18)	.263 (6.68)	.156 (3.96)	.156 (3.96)	.125 (3.18)
-3	.188 (4.78)	.325 (8.26)	.219 (5.56)	.219 (5.56)	
-4	.250 (6.35)	.378 (9.60)	.281 (7.14)	.203 (5.16)	
-5	.313 (7.95)	.441 (11.20)	.344 (8.78)	.219 (5.56)	.141 (3.58)
-6	.375 (9.53)	.503 (12.78)	.422 (10.72)	.266 (6.76)	.156 (3.96)
-8	.500 (12.70)	.683 (17.35)	.547 (13.89)	.313 (7.95)	.172 (4.37)
-10	.625 (15.88)	.799 (20.29)	.672 (17.07)	.281 (7.14)	.250 (6.35)
-12	.750 (19.05)	.974 (24.74)	.813 (20.65)		.313 (7.95)
-16	1.000 (25.40)	1.224 (31.09)	1.063 (27.00)	.297 (7.54)	
-20	1.250 (31.75)	1.536 (39.01)	1.328 (33.73)	.375 (9.53)	
-24	1.500 (38.10)	1.786 (45.36)	1.594 (40.49)	.406 (10.31)	.375 (9.53)
-28	1.750 (44.45)	2.161 (54.89)	1.875 (47.63)	.500 (12.70)	
-32	2.000 (50.80)	2.411 (61.24)	2.141 (54.38)	.578 (14.68)	.500 (12.70)
-40	2.500 (63.50)	2.911 (73.94)	2.641 (67.08)	.625 (15.88)	.688 (17.48)
-48	3.000 (76.20)	3.411 (86.64)	3.156 (80.16)	.688 (17.48)	

Dash number	F dia.	G dia inches (mm) -.000 +.005 (0.13)	H inches (mm)	R radius inches (mm)
-2	.094 (2.39)	.218 (5.54)	.531 (13.49)	.005 (0.13)
-3	.156 (3.96)	.250 (6.35)		
-4	.172 (4.37)	.300 (7.62)		
-5	.234 (5.94)	.360 (9.14)	.563 (14.30)	.010 (0.25)
-6	.297 (7.54)	.440 (11.18)	.625 (15.88)	
-8	.391 (9.93)	.575 (14.61)	.750 (19.05)	
-10	.438 (11.13)	.585 (14.86)		
-12	.563 (14.30)	.885 (22.48)	.875 (22.23)	
-16	.813 (20.65)	1.103 (28.02)		
-20	1.078 (27.38)	1.413 (35.89)	1.000 (25.40)	.015 (0.38)
-24	1.313 (33.35)	1.661 (42.19)	1.125 (28.58)	
-28	1.547 (39.29)	2.034 (51.66)	1.375 (34.93)	
-32	1.781 (45.24)	2.284 (58.01)	1.438 (36.53)	
-40	2.000 (50.80)	2.784 (70.71)	1.750 (44.45)	
-48	2.500 (63.50)	3.284 (83.41)	1.813 (46.05)	

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Fittings shall be free of all burrs and slivers.
4. Unless otherwise specified tolerances for three point decimals  $\pm 0.010$  inch (0.25 mm).
5. For design features purposes, this standard takes precedence over documents referenced herein.

FIGURE 1. Cap - Continued.

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## REQUIREMENTS:

Dimensions and configurations: See figure 1.

Material: See table I, alloys in accordance with SAE-AS4841.

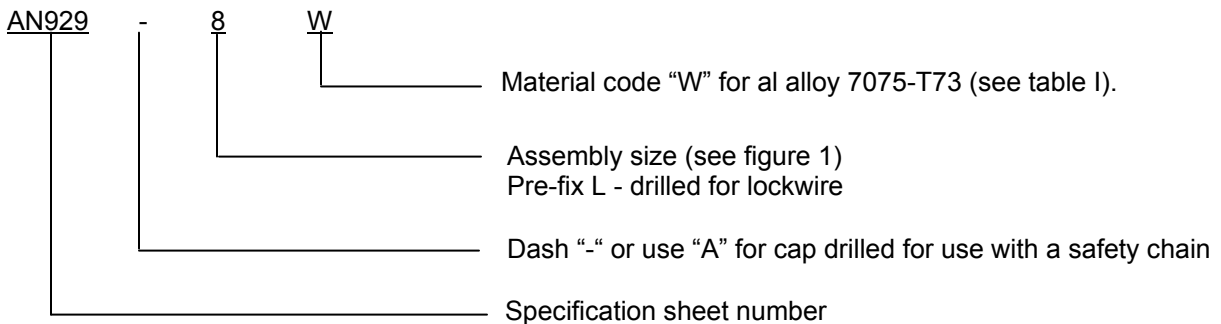
TABLE I. Material and nut alloys.

Cap			Nut AN818		
Designator	Material	Alloy	Designator	Material	Alloy
CS	Steel	---	Blank	Steel	---
J	CRES	304	J or K	CRES	304 or 316
K	CRES	316	J or K	CRES	304 or 316
S	CRES	347	J or K	CRES	304 or 316
T 1/	Titanium	64Al-4V	T	Titanium	64Al-4V
W	Aluminum	7075-T73	W	Aluminum	7075-T73

1/ Not for use with oxygen or potable water.

Finish: See SAE-AS4841.

Part or Identifying Number (PIN):



PIN Examples:

AN929-8W identifies a cap assembly .500 inch (tube), aluminum.

AN929-L8J identifies a cap assembly .500 inch (tube), drilled for lockwire, CRES.

AN929A8S identifies a cap assembly .500 inch (tube), drilled for attachment of safety chain, CRES.

Supersession data: Aluminum alloys 2014 and 2024 "no code letter" have been replaced by aluminum alloy 7075. Use the "W" designator example: AN818-8 use AN818W.

Because this document was written before SAE-AS4841 the blank designator was already assigned to aluminum alloys 2014 and 2025, see table II. That is also why SAE-AS4841 conflicts with the designator for carbon steel parts in table I. The designator CS had to be used in this document to differentiate if from aluminum and carbon steel parts. In SAE-AS4841 the designator for carbon steel is the blank designator.

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TABLE II. Designator explanation.

Cap AN929			Nut AN818		
Designator	Material	Alloy	Designator	Material	Alloy
Blank or no code letter	Aluminum	2014 or 2024	D	Aluminum	2014 or 2024
W	Aluminum	7075-T73	W	Aluminum	7075-T73

AN929 assemblies which consist of a cap and an AN818 nut shall be fastened together for shipping or stock purposes in a manner acceptable to the procuring activity.

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Referenced documents. In addition to SAE-AS4841, this document references AN818.

## CONCLUDING MATERIAL

Custodians:  
Navy - AS  
Air Force - 99  
DLA - CC

Preparing activity:  
DLA - CC  
(Project 4730-2009-077)

Review activity:  
Air Force - 71

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil>.