

INCH-POUND

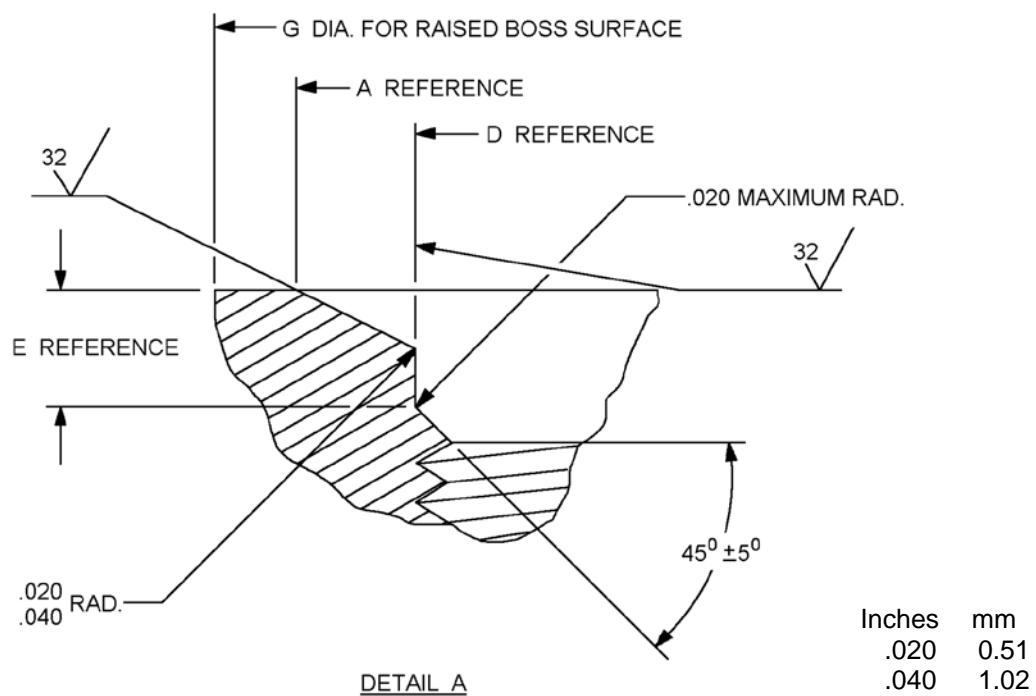
AND10050 REV 22  
25 October 2018  
SUPERSEDING  
AND10050 REV 21  
30 March 2005

## DETAIL SPECIFICATION SHEET

### BOSSSES, STANDARD DIMENSIONS FOR GASKET SEAL STRAIGHT THREAD

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.



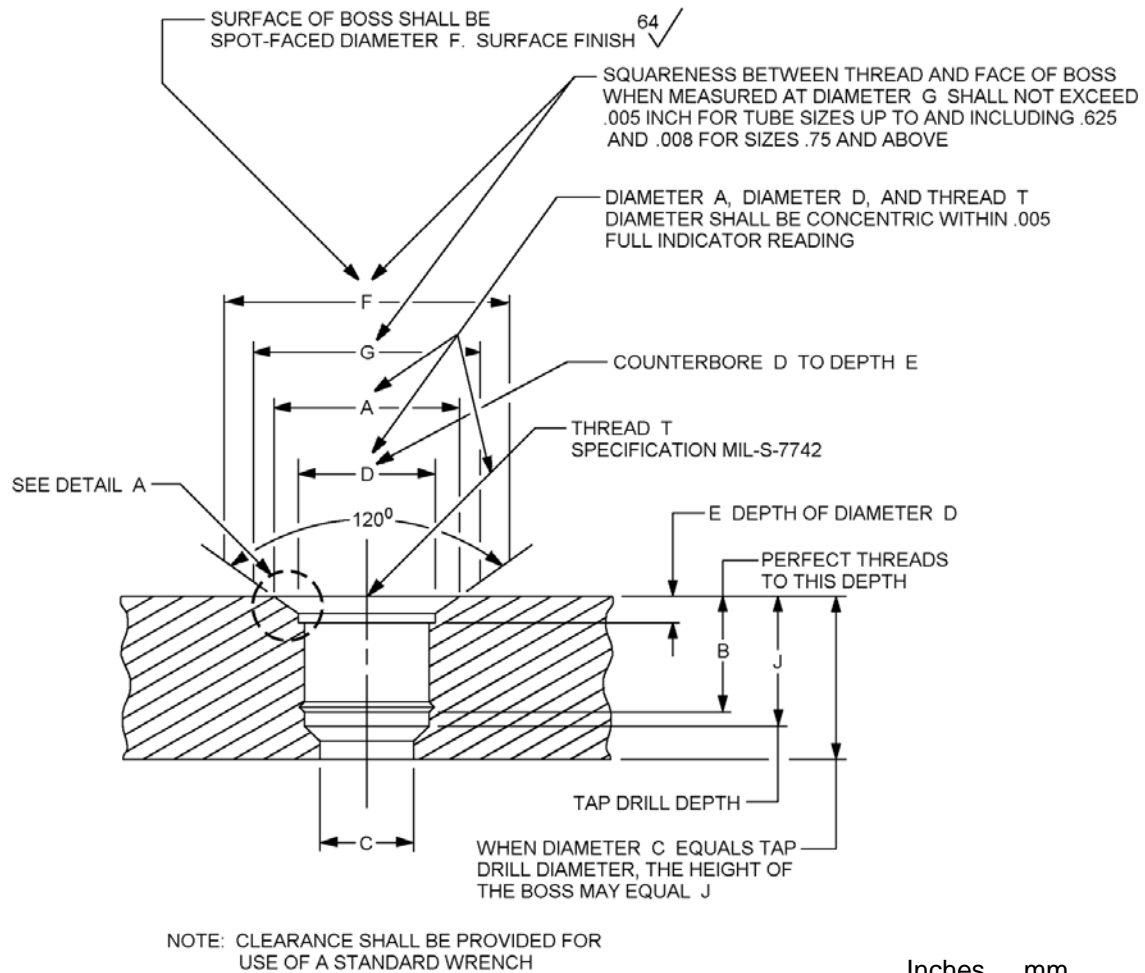
See notes at end of figure.

FIGURE 1. Bosses, standard dimensions for gasket seal straight thread.

AMSC N/A

FSC 4730





Inches	mm
.005	0.13
.008	0.20
.625	15.88
.75	19.05

See notes at end of figure.

FIGURE 1. Bosses, standard dimensions for gasket seal straight thread - Continued.

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Equivalent tube size dash number	Tubing OD	Thread T (Ref)	A +.015 (+0.38) -.000 (mm)	B min (mm)	C dia. min (mm)
2	1/8	.3125-24 UNF-3B	.438 (11.13)	.375 (9.53)	.062 (1.57)
3	3/16	.3750-24 UNF-3B	.500 (12.70)	.406 (10.31)	.125 (3.18)
4	1/4	.4375-20 UNF-3B	.562 (14.27)	.438 (11.13)	.172 (4.37)
5	5/16	.500-20 UNF-3B	.625 (15.88)		.234 (5.94)
6	3/8	.5625-18 UNF-3B	.688 (17.48)	.469 (11.91)	.297 (7.54)
8	1/2	.750-16 UNF-3B	.875 (22.23)	.562 (14.27)	.391 (9.93)
10	5/8	.8750-14 UNF-3B	1.000 (25.40)	.625 (15.88)	.484 (12.29)
12	3/4	1.0625-12 UN-3B	1.234 (31.34)	.688 (17.48)	.609 (15.47)
16	1	1.3125-12 UN-3B	1.487 (37.77)		.844 (21.44)
20	1-1/4	1.6250-12 UN-3B	1.800 (45.72)		1.078 (27.38)
24	1-1/2	1.8750-12 UN-3B	2.050 (52.07)	.750 (19.05)	1.312 (33.32)
28	1-3/4	2.250-12 UN-3B	2.425 (61.60)	.812 (20.62)	1.547 (39.29)
32	2	2.500-12 UN-3B	2.675 (67.95)	.938 (23.83)	1.781 (45.24)

Equivalent tube size dash number	D dia. +.005 (0.13) -.000 (mm)	E +.015 (0.38) -.000 (mm)	F dia. min (mm)	G dia. min (mm)	J min (mm)
2	.328 (8.33)	.063 (1.60)	.672 (17.07)	.562 (14.27)	.500 (12.70)
3	.390 (9.90)		.750 (19.05)	.625 (15.88)	
4	.454 (11.53)	.075 (1.91)	.828 (21.03)	.688 (17.48)	.594 (15.09)
5	.517 (13.13)		.906 (23.01)	.750 (19.05)	
6	.580 (14.73)	.083 (2.11)	.969 (24.61)	.812 (20.62)	
8	.769 (19.53)	.094 (2.39)	1.188 (30.18)	1.032 (26.21)	.718 (18.24)
10	.896 (22.76)	.107 (2.72)	1.344 (34.14)	1.157 (29.39)	.781 (19.84)
12	1.086 (27.58)	.125 (3.18)	1.625 (41.28)	1.406 (35.71)	.906 (23.01)
16	1.336 (33.93)		1.910 (48.51)	1.656 (42.06)	.938 (23.83)
20	1.648 (41.86)		2.270 (57.66)	1.969 (50.01)	.984 (24.99)
24	1.898 (48.21)		2.560 (65.02)	2.219 (56.36)	1.125 (28.58)
28	2.273 (57.73)		3.010 (76.45)	2.594 (65.89)	1.250 (31.75)
32	2.524 (64.11)		3.480 (88.39)	2.844 (72.24)	1.375 (34.93)

See notes at end of figure.

FIGURE 1. Bosses, standard dimensions for gasket seal straight thread - Continued.

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified angular tolerances + .5°.
4. Finish: Surface texture symbols are defined in ASME Y14.36.
5. Measurements for surface finish: Roughness average is defined in ASME B46.1.

FIGURE 1. Bosses, standard dimensions for gasket seal straight thread - Continued.

REQUIREMENTS:

This is a design standard and not to be used as a Part or Identifying Number (PIN).

Dimensions and configurations: See figure 1.

For design features purposes, this standard takes precedence over documents referenced herein.

The countersink to diameter A and counterbore to diameter D shall be free from longitudinal and spiral tool marks.

Break all sharp edges, remove all hanging burrs and slivers, which might become dislodged under usage.

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue."

This document references the following:

MIL-S-7742  
ASME Y14.36  
ASME B46.1

CONCLUDING MATERIAL

Custodians:  
Air Force - 71  
DLA - CC

Preparing activity:  
DLA - CC

(Project 4730-2018-115)

Review activity:  
Air Force - 06, 99

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 <https://assist.dla.mil>.