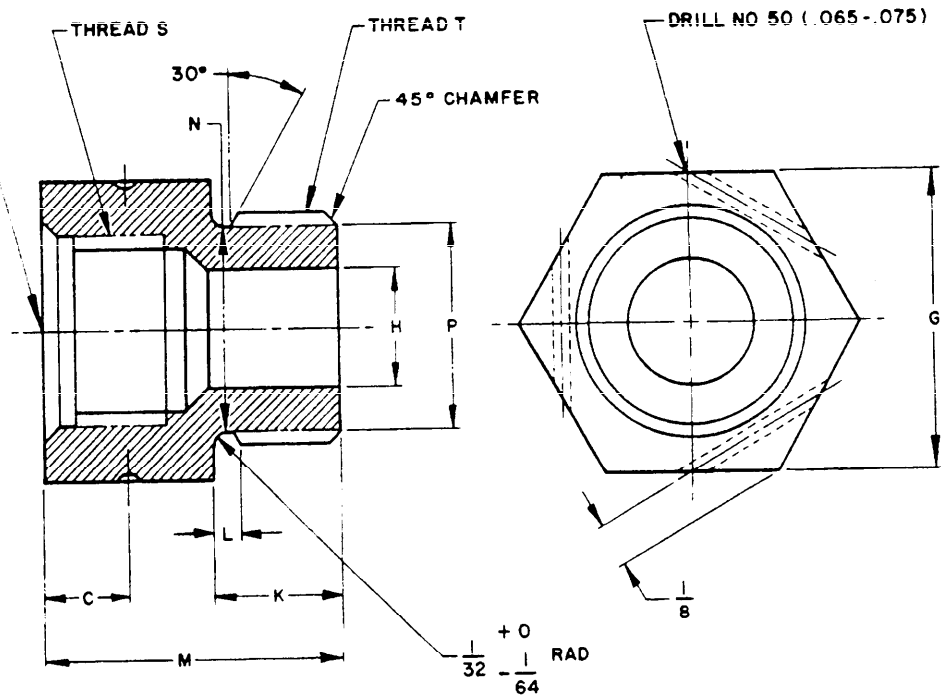


USER ACTIVITIES

REVIEWER ACTIVITIES  
AIR FORCE - II  
ARMY - AV, MI  
DLA - CS

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

BOSS DIMENSIONS IN ACCORDANCE WITH MS33649  
FOR INTERNAL THREADED END

DIAMETERS S, N, H, AND T SHALL BE CONCENTRIC WITHIN .005 FILL INDICATOR READING.

MATERIAL: STEEL - BARS, SHAPES, OR FORGINGS.  
ALUMINUM ALLOY - BARS, SHAPES, OR FORGINGS.  
CORROSION RESISTANT STEEL - BARS, SHAPES, OR FORGINGS.  
SEE PROCUREMENT SPECIFICATION.

FINISH: SEE PROCUREMENT SPECIFICATION.

NO CODE LETTER IN PART NUMBER FOR STEEL.  
ADD D AFTER DASH NUMBER FOR ALUMINUM ALLOY (EXCEPT 7075-T73).  
ADD J AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL, TYPE 304.  
ADD K AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL, TYPE 316.  
ADD S AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL, TYPE 347.  
ADD W AFTER DASH NUMBER FOR 7075-T73.  
ADD T AFTER DASH NUMBER FOR TITANIUM.EXAMPLE OF PART NUMBERS:  
AN893-4 - BUSHING, 1/4 TO 3/4 TUBING, STEEL.  
AN893-4D - BUSHING, 1/4 TO 3/4 TUBING, ALUMINUM ALLOY (EXCEPT 7075-T73).  
AN893-8J - BUSHING, 5/16 TO 1/2 TUBING, CORROSION RESISTANT STEEL, TYPE 304.  
AN893-8K - BUSHING, 5/16 TO 1/2 TUBING, CORROSION RESISTANT STEEL, TYPE 316.  
AN893-8S - BUSHING, 5/16 TO 1/2 TUBING, CORROSION RESISTANT STEEL, TYPE 347.  
AN893-4W - BUSHING, 1/4 TO 3/4 TUBING, 7075-T73.  
AN893-4T - BUSHING, 1/4 TO 3/4 TUBING, TITANIUM.

BREAK ALL SHARP EDGES AND REMOVE ALL HANGING BURRS AND SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: FRACTIONS  $\pm 1/64$ , ANGLES  $\pm 1/2^\circ$ .

TITANIUM NOT FOR USE IN OXYGEN SYSTEMS.

(10) ENTIRE STANDARD REVISED

P. A. AIR FORCE - 82 Other Cust: ARMY - AV NAVY - AS AIR FORCE - 99	INTERNATIONAL INTEREST	AIR FORCE-NAVY AERONAUTICAL STANDARD BUSHING, SCREW THREAD, REDUCER	AN893
PROCUREMENT SPECIFICATION MIL - F - 5509	SUPERSEDES:	SHEET 1 OF 2	

DD FORM 672-1 (COORDINATED)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PROJECT 4730-0299

APPROVED 22 OCT 42 REVISED 9 16 APRIL 82 10 5 OCT 83

FED. SUP CLASS  
4730

USER ACTIVITIES

REVIEWER ACTIVITIES  
AIR FORCE - II  
ARMY - AV, MI  
DLA - CSThis military standard is approved for use by all Departments and Agencies of the Department of Defense  
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DASH NO.	INTERNALLY THREADED END				EXTERNALLY THREADED END						OVERALL		
	TUBING OD	THREAD S (REF)	C	H +.010 -.000 DIA	TUBING OD	(a) THREAD T REF	K	L +.015 -.000	N +.002 -.003 DIA	P DIA	G	M	
1	1/4	.4375-20UNJF-3B	3/8	.206	5/16	1/2 -20UNJF-3A	3/8	.075	.427	13/32	.750	±.004	1- 7/64
2			11/32		3/8	9/16-18UNJF-3A	27/64	.083	.482	15/32	.813		
3			5/32	.383	1/2	3/4 -16UNJF-3A	15/32	.094	.660	5/8	1.000	±.005	25/32
31			5/8		7/8 -14UNJF-3A	17/32	.107	.773	3/4	1.125	27/32		
4			3/4		1-1/16-12UNJ -3A	19/32	.125	.945	15/16	1.375	±.016		31/32
5			1		1-5/16-12UNJ -3A			1.195	1-3/16	1.625			
6	1-1/4	1-5/8 -12UNJ -3A		1.507	1-1/2	1.875							
7	5/16	.5000-20UNJF-3B	11/32	.257	3/8	9/16-18UNJF-3A	27/64	.083	.482	15/32	.813	±.004	1- 7/64
8			5/16		1/2	3/4 -16UNJF-3A	15/32	.094	.660	5/8	1.000		
81			5/32	.446	5/8	7/8 -14UNJF-3A	17/32	.107	.773	3/4	1.125	±.005	27/32
9			3/4		1-1/16-12UNJ -3A	19/32	.125	.945	15/16	1.375	±.016		31/32
10			1		1-5/16-12UNJ -3A			1.195	1-3/16	1.625			
11			1-1/4		1-5/8 -12UNJ -3A		1.507	1-1/2	1.875				
12	3/8	.5625-18UNJF-3B	5/16	.319	1/2	3/4 -16UNJF-3A	15/32	.094	.660	5/8	1.000	±.004	1-11/64
121			5/8		7/8 -14UNJF-3A	17/32	.107	.773	3/4	1.125	±.005		1- 7/32
13			3/4	1-1/16-12UNJ -3A	19/32	.125	.945	15/16	1.375	±.016		31/32	
14			1	1-5/16-12UNJ -3A			1.195	1-3/16	1.625				
15	1-1/4	1-5/8 -12UNJ -3A		1.507	1-1/2	1.875							
151	1/2	.7500-16UNJF-3B	7/16	.530	5/8	7/8--14UNJF-3A	17/32	.107	.773	3/4	1.125	±.005	1- 3/8
16			3/4		1-1/16-12UNJ -3A	19/32	.125	.945	15/16	1.375	±.016		1-11/32
17			1	1-5/16-12UNJ -3A	1.195			1-3/16	1.625				
18			1-1/4	1-5/8 -12UNJ -3A		1.507	1-1/2	1.875					
19	5/8	.8750-14UNJF-3B	13/64	.555	3/4	1-1/16-12UNJ -3A	19/32	.125	.945	15/16	1.375	±.005	1- 3/8
20			1		1-5/16-12UNJ -3A	1.195			1-3/16	1.625	±.016		31/32
21			1-1/4	1-5/8 -12INJ -3A		1.507	1-1/2	1.875					
22			3/4	1.0625-12UNJ -3B	.937	1	1-5/16-12UNJ -3A		1.195	1-3/16	1.625		1-37/64
23			.972				1.195	1-3/16	1.625		31/32		
24	1	1.3125-12UNJ -3B	1.222	1-1/4	1-5/8 -12UNJ -3A		1.507	1-1/2	1.875		1- 3/8		

10 ENTIRE STANDARD REVISED

P. A. AIR FORCE -82 Other Cust	INTERNATIONAL INTEREST	AIR FORCE-NAVY AERONAUTICAL STANDARD	AN893
		BUSHING, SCREW THREAD, REDUCER	
PROCUREMENT SPECIFICATION MIL - F - 5509		SUPERSEDES:	SHEET 2 OF 2

APPROVED 1 JUNE 54 REVISED 10 FOR CHANGES SEE PAGES 1 &amp; 2

DD FORM 672-1 (COORDINATED)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE