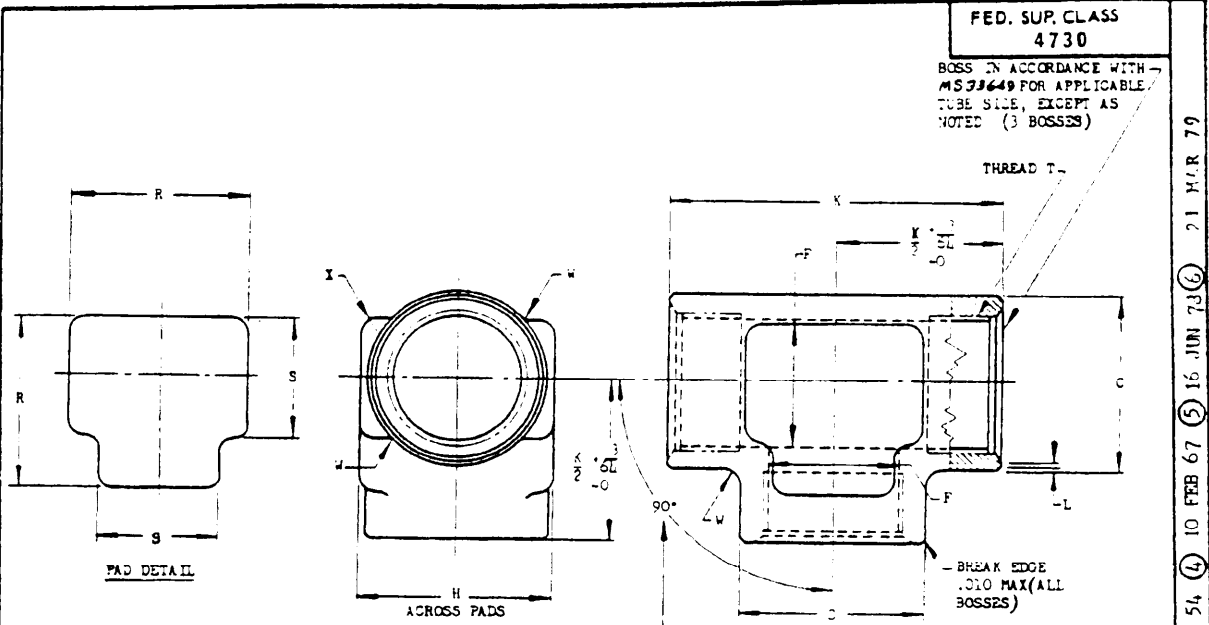


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User activities: Army - ME, AV; Navy - AS; Air Force - 99
 Review activities: Army - ME, AV; Navy - AS; DIA - CS



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BOSS IN ACCORDANCE WITH MS33649 FOR APPLICABLE TUBE SIZE, EXCEPT AS NOTED (3 BOSSES)

- SQUARENESS BETWEEN THREAD T AND FACE OF BOSS SHALL CONFORM TO MS33649 AS SPECIFIED.
- MATERIAL: STEEL, ALUMINUM ALLOY; SHAPES OR FORGINGS.
CORROSION RESISTANT STEEL (CRES), TITANIUM ALLOY; BARS, SHAPES, OR FORGINGS.
SEE PROCUREMENT SPECIFICATION.
- FINISH: SEE PROCUREMENT SPECIFICATION.
- NO CODE LETTER IN PART NUMBER FOR STEEL.
- ⑥ ADD D IN PLACE OF DASH FOR ALUMINUM ALLOY (EXCEPT 7075-T73).
 - ADD Q IN PLACE OF DASH FOR CRES, TYPE 302, 303, 304, 316, AND 321.
 - ADD J IN PLACE OF DASH FOR CRES, TYPE 304.
 - ADD K IN PLACE OF DASH FOR CRES, TYPE 316.
 - ADD S IN PLACE OF DASH FOR CRES, TYPE 304L AND 316L. PARTS ARE NOT TO BE MANUFACTURED FROM TYPE 304L STEEL AFTER 10 FEBRUARY 1967.
 - ADD T IN PLACE OF DASH FOR TITANIUM ALLOY. TITANIUM IS NOT RECOMMENDED FOR USE IN OXYGEN SYSTEMS.
 - ADD W IN PLACE OF DASH FOR 7075-T73 ALUMINUM ALLOY.
 - ⑥ ITEMS CODED C ON PREVIOUS ISSUES OF THIS STANDARD ARE NO LONGER TO BE FURNISHED. PROCURING ACTIVITIES MUST SPECIFY APPLICABLE CRES MATERIAL CODE AS PART OF THE STANDARD PART NUMBER.

- EXAMPLE OF PART NUMBERS:
- AN938-8 - TEE, 1/2 TUBING, STEEL.
 - ⑥ AN938D8 - TEE, 1/2 TUBING, ALUMINUM ALLOY (EXCEPT 7075-T73).
 - ~~AN938C8 - TEE, 1/2 TUBING, CRES, TYPE 302, 303, 304, 316, OR 321.~~
 - AN938J8 - TEE, 1/2 TUBING, CRES, TYPE 304.
 - AN938K8 - TEE, 1/2 TUBING, CRES, TYPE 316. ⑥ AN938W8 - TEE, 1/2 TUBING, 7075-T73 ALUMINUM ALLOY.
 - AN938S8 - TEE, 1/2 TUBING, CRES, TYPE 316L.
 - AN938T8 - TEE, 1/2 TUBING, TITANIUM ALLOY.

BREAK ALL SHARP EDGES AND REMOVE ALL HANGING BURRS AND SLIVERS.
DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCE: FRACTIONS +1/64.
ALUMINUM ALLOY FITTINGS, SIZES -10 THROUGH -20, SHALL NOT BE USED AT WORKING PRESSURES ABOVE 1500 PSI.
SEE AND1006L FOR INSTALLATION DETAILS.
FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.
REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

⑥ denotes changes

P.A. Air Force-99 Other Cust	International Interest	AIR FORCE - NAVY AERONAUTICAL STANDARD	AN938
		TEE, TUBE, INTERNAL THREAD	
Procurement Specification MIL-F-5509		SUPERSEDES: AN926	PAGE 1 OF 2

APPROVED 27 JUN 50
 REVISED ① 6 FEB 51 ② 1 JUN 53 ③ 1 JUN 53 ④ 10 FEB 67 ⑤ 16 JUN 73 ⑥ 21 MAR 79

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DASH NO.	TUBING OD	THREAD T (REF)	C DIA	F +.000 -.015 DIA	H	K +3/32 -0	L MIN LAND	R APPROX	S APPROX	W MIN RAD	X MTH RAD	WEIGHT MAX (LBS.)		
												STEEL	ALLOY	T1 ALLOY
4	1/4	7/16-20UNJF-3B	11/16	.397	3/4	1-1/2	.040	3/4	1/2	3/32	1/16			
5	5/16	1/2-20UNJF-3B	3/4	.459	13/16	1-5/8		7/8	9/16					
6	3/8	9/16-18UNJF-3B	13/16	.516	1-1/16	2		1-1/16	11/16					
8	1/2	3/4-16UNJF-3B	1-1/16	.697	1-3/16	2-5/16	.071	1-3/16	3/4					
10	5/8	7/8-14UNJF-3B	1-3/16	.815	1-7/16	2-23/32		1-5/8	15/16	1/8	3/32			
12	3/4	1-17/16-12UNJF-3B	1-7/16	.991	1-11/16	3-1/16	.077	1-5/8	1-1/8					
16	1	1-5/16-12UNJF-3B	1-11/16	1.241	2	3-15/32		2	1-5/16					
20	1-1/4	1-5/8-12UNJF-3B	2	1.553	2									

21 MAR 79

REVISED For changes see page 1.

APPROVED 27 JUN 50

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AIR FORCE - NAVY AERONAUTICAL STANDARD

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