

FED. SUP CLASS  
4730

FITTING END IN ACCORDANCE WITH MS21947 FOR FLOW SIZE AND TUBE SIZE SPECIFIED

15° ± 5° CHAMFER TO "D" DIMENSION (BOTH SIDES)

FITTING END IN ACCORDANCE WITH MS33656 STYLE E FOR TUBE SIZE SPECIFIED

LOW FLOW SIZE											
MS PART NUMBER	TUBE OD	THREAD S (REF)	TUBE OD	THREAD T (REF)	A (REF)	B	C ± .003	D .000 ± .015	E ± .002	F ± .003	H MAX
MS 21950-61A	3/16	9/16-3A	1/4	7/16-30	2.073	2.063	—	.621	—	—	.621
MS 21950-61A	1/4	1 1/8-3A	1/4	7/16-30	2.073	2.066	THRU	.684	THRU	.172	.671
MS 21950-61A	5/16	1 1/2-30	1/4	7/16-30	2.073	2.028	.750	.746	1.812	.203	.744
MS 21950-61A	3/8	9/16-18	1/4	7/16-30	2.073	2.066	.750	.871	1.812	.203	.871
MS 21950-61A	1/2	5/8-18	1/4	7/16-30	2.073	2.106	.750	.996	1.837	.203	.996

HIGH FLOW SIZE											
MS PART NUMBER	TUBE OD	THREAD S (REF)	TUBE OD	THREAD T (REF)	A (REF)	B	C ± .003	D .000 ± .015	E ± .002	F ± .003	H MAX
MS 21950-61A	3/8	9/16-18	1/4	7/16-30	2.353	2.346	—	.871	2.000	.297	.871
MS 21950-61B	3/8	9/16-18	5/16	1 1/2-30	2.353	2.346	—	.871	2.000	.297	.871
MS 21950-61B	3/8	9/16-18	3/8	9/16-18	2.353	2.352	THRU	.871	THRU	.297	.871
MS 21950-61B	3/8	9/16-18	1/2	3/4-16	2.460	2.453	—	.871	—	—	.871
MS 21950-61A	1/2	3/4-16	1/4	7/16-30	2.353	2.447	—	.996	2.125	.391	.996
MS 21950-61B	1/2	3/4-16	5/16	1 1/2-30	2.353	2.447	—	.996	2.125	.391	.996
MS 21950-61B	1/2	3/4-16	3/8	9/16-18	2.353	2.453	—	.996	2.125	.391	.996
MS 21950-61B	1/2	3/4-16	1/2	3/4-16	2.460	2.554	THRU	.996	THRU	.391	.996
MS 21950-101A	3/8	7/8-14	1/4	7/16-30	2.363	2.648	.937	1.121	2.188	.423	1.121
MS 21950-101B	3/8	7/8-14	5/16	1 1/2-30	2.363	2.648	.937	1.121	2.188	.423	1.121
MS 21950-101B	3/8	7/8-14	3/8	9/16-18	2.363	2.648	.937	1.121	2.188	.423	1.121
MS 21950-101B	3/8	7/8-14	1/2	3/4-16	2.460	2.655	.937	1.121	2.188	.423	1.121

MATERIAL: ALUMINUM ALLOY BAR 345 SPECIFICATION QQ-A-325/6 TEMPER T4 OR TEMPER T4 ARTIFICIALLY AGED.  
FINISH: SEE PROCEDURE SPECIFICATION.  
ALL OUTSIDE MACHINED SURFACES 125 MICROINCHES R.M.S. MAX. ALL INSIDE 250 MAX. UNLESS OTHERWISE NOTED.  
FITTINGS SHALL BE FREE FROM ALL HANGING SURFS AND SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE.  
DIMENSIONS IN INCHES: UNLESS OTHERWISE SPECIFIED. TOLERANCES: DECIMALS ± .010, ANGLES ± 1/2°.  
INSTALL PER MS 21951

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.

P.A. USAF-82 Other Cont	TITLE BOLT-CLUSTER FITTING SINGLE PORT THROUGH-FLARE	MILITARY STANDARD MS21950
NAVY-AS ARMY-MI	SUPSEDES	SHEET 1 OF 1
PROCUREMENT SPECIFICATION MIL-F-5509		

DD FORM 672-1 (Coordinated)

APPROVED 15 FEB 1956 REVISED A 30 SEP 75

Navy activities:

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ARMY - MI  
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