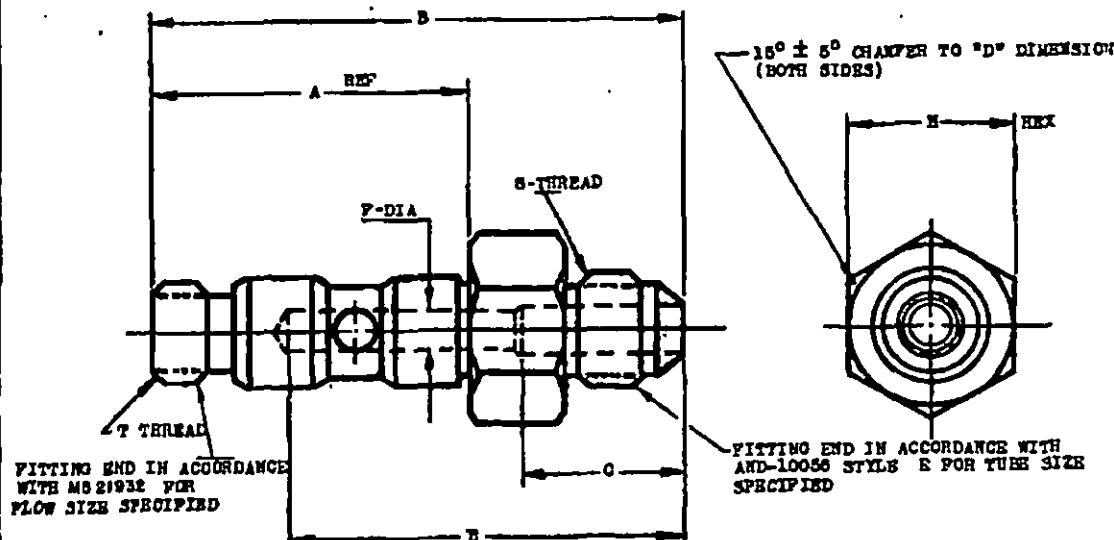


FED. SUP CLASS
1650

LOW FLOW SIZE MS PART NUMBER	TUBE O.D.	THREAD S (REF)	THREAD T (REF)	A (REF.)	B	+ C - .062	+ D - .015	+ E - .062	+ F - .003	H HEX
MS 21949 -3L	3/16	3/8-24 UNF-3A	7/16-20 UNF-3A	1.438	2.229	----	.621	1.625	.125	.821 .628
MS 21949 -4L	1/4	7/16-20 UNF-3A	7/16-20 UNF-3A	1.438	2.332	----	.684	1.750	.172	.884 .691
MS 21949 -6L	5/16	1/2-20 UNF-3A	7/16-20 UNF-3A	1.438	2.394	.750	.746	1.812	.203	.946 .753
MS 21949 -8L	3/8	9/16-18 UNF-3A	7/16-20 UNF-3A	1.438	2.431	.750	.871	1.812	.203	.871 .878
MS 21949 -8L	1/2	3/4-16 UNF-3A	7/16-20 UNF-3A	1.438	2.532	.750	.996	1.937	.203	.996 1.003

(A)

HIGH FLOW SIZE MS PART NUMBER	TUBE O.D.	THREAD S (REF)	THREAD T (REF)	A (REF.)	B	+ C - .062	+ D - .015	+ E - .062	+ F - .003	H HEX
MS 21949 -6H	3/8	9/16-18 UNF-3A	9/16-18 UNF-3A	1.688	2.681	----	.871	2.000	.297	.871 .878
MS 21949 -8H	1/2	3/4-16 UNF-3A	9/16-18 UNF-3A	1.688	2.782	----	.996	2.125	.391	.996 1.003
MS 21949 -10H	5/8	7/8-14 UNF-3A	9/16-18 UNF-3A	1.688	2.883	.937	1.121	2.188	.482	1.121 1.128

MATERIAL: ALUMINUM ALLOY BAR 268 SPECIFICATION QQ-A-268 TEMPER T4 OR TEMPER T4 ARTIFICIALLY AGED.
FINISH: SEE PROCUREMENT 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 BURRS AND SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE.
DIMENSIONS IN INCHES; UNLESS OTHERWISE SPECIFIED. TOLERANCES: DECIMALS $\pm .010$, ANGLES $\pm 1/2^\circ$.
INSTALL PER MS 21931.
EXAMPLE OF PART NUMBER: MS21949-4L BOLT, 1/4 TUBING, LOW FLOW.
(A) MS21949-6H BOLT, 1/2 TUBING, HIGH FLOW.

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. AS	MILITARY STANDARD	MS 21949 (AS)
PROCUREMENT SPECIFICATION MIL-P-5609	BOLT-CLUSTER FITTING SINGLE PORT-PLATE	SHEET 1 OF 1

NOTE: When Government drawings, specifications, or other data are used in connection with any product, the use of such data does not constitute an endorsement or approval by the Government of the quality or value thereof, nor does it constitute an endorsement or approval of the methods, techniques, or materials used in the manufacture of the product. The Government assumes no responsibility for the results of the use of such data in connection with any product.

This standard is approved by the Air Force Systems Command, Department of the Army, and is mandatory for use by all military activities. All other military activities are requested to comply with this standard when applicable.

APPROVED 15 FEB 1956 REVISED (A) 13 MAY 1962