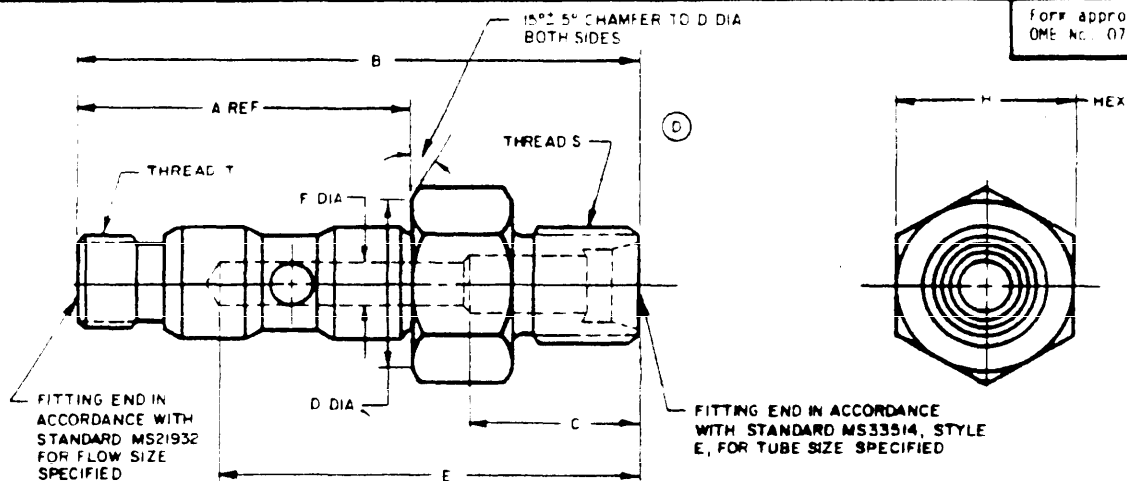


REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION MIL-F-18280



FORM APPROVED
OME NO. 07(14-C1)PR

LOW FLOW SIZE	TUBE	THREAD S	THREAD T	A	B	C	D	E	F	H	WT
DASH NUMBER	OD	MIL-S-8879	MIL-S-8879	REF		±.062	+.000 -.015	±.062	±.003	HEX	LB MAX
-3L	3/16	.3750-24 UNJF-3A	.4375-20 UNJF-3A	1.438	2.172	-----	.621	1.568	.125	.621 .628	.012
-4L	1/4	.4375-20 UNJF-3A	.4375-20 UNJF-3A	1.438	2.235	-----	.684	1.653	.187	.684 .691	.014
-5L	5/16	.5000-20 UNJF-3A	.4375-20 UNJF-3A	1.438	2.297	-----	.746	1.715	.234	.746 .753	.015
-6L	3/8	.5625-18 UNJF-3A	.4375-20 UNJF-3A	1.438	2.344	.663	.871	1.750	.234	.871 .878	.018
-8L	1/2	.7500-16 UNJF-3A	.4375-20 UNJF-3A	1.438	2.437	.656	.996	1.844	.234	.996 1.003	.023
HIGH FLOW SIZE	TUBE	THREAD S	THREAD T	A	B	C	D	E	F	H	WT
DASH NUMBER	OD	MIL-S-8879	MIL-S-8879	REF		±.062	+.000 -.015	±.062	±.003	HEX	LB MAX
-6H	3/8	.5625-18 UNJF-3A	.5625-18 UNJF-3A	1.688	2.594	-----	.871	1.913	.297	.871 .878	.016
-8H	1/2	.7500-16 UNJF-3A	.5625-18 UNJF-3A	1.688	2.687	-----	.996	2.030	.422	.996 1.003	.025
-10H	5/8	.8750-14 UNJF-3A	.5625-18 UNJF-3A	1.688	2.750	.812	1.121	2.055	.422	1.121 1.128	.040

INACTIVE FOR NEW DESIGN AFTER 31 DEC: 1990

REQUIREMENTS:

1. MATERIAL: ALUMINUM ALLOY - BARS. SEE PROCUREMENT SPECIFICATION.
2. FINISH: SEE PROCUREMENT SPECIFICATION. SURFACE FINISH IN ACCORDANCE WITH ANSI B46.1. UNLESS OTHERWISE NOTED, ALL OUTSIDE MACHINED SURFACES SHALL BE 125 MICROINCHES R_a , AND ALL INSIDE SURFACES SHALL BE 250 MICROINCHES R_a PER ANSI B46.1.

NOTES:

1. FITTINGS SHALL BE FREE FROM ALL HANGING BURPS AND SLIVERS.
2. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.010, ANGLES ±1/2°.
3. PART NUMBERS
NO CODE LETTER IN PART NUMBER FOR ALUMINUM ALLOY (2024).
ADD "W" IN PLACE OF DASH FOR ALUMINUM ALLOY (7075).
EXAMPLES OF PART NUMBERS:
MS21938-BL - BOLT, 1/2 TUBING, LOW FLOW, ALUMINUM ALLOY (2024).
MS21938BWL - BOLT, 1/2 TUBING, LOW FLOW, ALUMINUM ALLOY (7075).
4. INSTALLATION IN ACCORDANCE WITH MS21931.
5. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.
6. REFERENCE GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.

DEFINITIONS

PREPARING ACTIVITY NAVY - AS
CUSTODIANS ARMY - AV

AIR FORCE - 99

REVIEW USAF - 82, 71 ARMY - AF, DLA - CS

USER ARMY - GL, CR, ME, AT

PROJECT NUMBER 4730-6982

DISTRIBUTION STATEMENT A

MILITARY SPECIFICATION SHEET

TITLE: BOLT, CLUSTER FITTING, SINGLE PORT
FLANGELESS

SPECIFICATION SHEET NUMBER

MS21938D 16 JAN 1989

SUPERSEDING

MS2193FC 26 JUNE 1981

AMSC -

N/A

FSC: 4730

Approved for public release; distribution is unlimited

Page 2 of 2

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE