

REV.
B

SAE AS21938

RATIONALE

CORRECT FITTING END DESIGN STANDARD CALLOUT. ADDED REFERENCE DESIGNATION TO DIMENSIONS S AND T IN TABLES 1 AND 2 TO AGREE WITH FIGURE.

FEDERAL SUPPLY CLASS
4730

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S MILITARY STANDARD MS21938D. THIS SAE STANDARD RETAINS THE SAME PART NUMBER ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

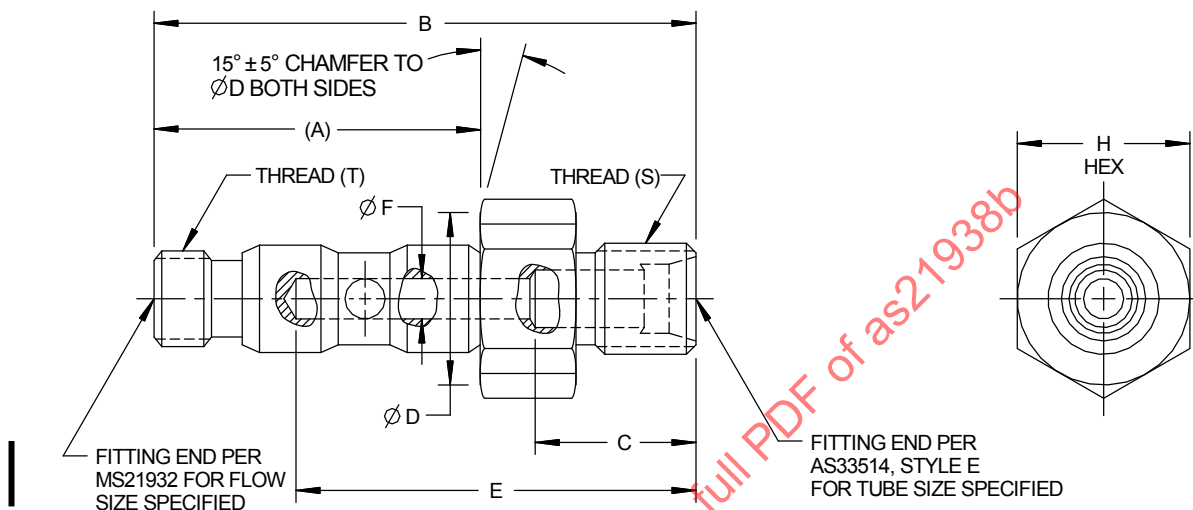
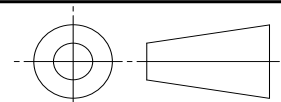


FIGURE 1 - BOLT, CLUSTER FITTING, SINGLE PORT, FLARELESS, DIMENSIONS AND CONFIGURATION

INACTIVE FOR NEW DESIGN /14/

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THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /10/ AS18280

SAE Aerospace
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AEROSPACE STANDARD

BOLT, CLUSTER FITTING,
SINGLE PORT
FLARELESS

SAE AS21938
SHEET 1 OF 3

REV.
B

TABLE 1 - BOLT, CLUSTER FITTING, SINGLE PORT, FLARELESS,
LOW FLOW, DIMENSIONS AND WEIGHTS

LOW FLOW SIZE DASH NO.	(NOMINAL TUBING SIZE)	THREAD (S) PER AS8879	THREAD (T) PER AS8879	(A)	B	C ±.062	ØD +.000 -.015	E ±.062	F ±.003	H	WT LB/EA APPROX
-3L	.1875	.3750-24 UNJF-3A	.4375-20 UNJF-3A	1.438	2.172	---	.621	1.568	.125	.621 - .628	.027
-4L	.2500	.4375-20 UNJF-3A	.4375-20 UNJF-3A	1.438	2.235	---	.684	1.653	.187	.684 - .691	.038
-5L	.3125	.5000-20 UNJF-3A	.4375-20 UNJF-3A	1.438	2.297	---	.746	1.715	.234	.746 - .753	.047
-6L	.3750	.5625-18 UNJF-3A	.4375-20 UNJF-3A	1.438	2.344	.663	.871	1.750	.234	.871 - .878	.059
-8L	.5000	.7500-16 UNJF-3A	.4375-20 UNJF-3A	1.438	2.437	.656	.996	1.844	.234	.996 - 1.003	.132

TABLE 2 - BOLT, CLUSTER FITTING, SINGLE PORT, FLARELESS,
HIGH FLOW, DIMENSIONS AND WEIGHTS

HIGH FLOW SIZE DASH NO.	(NOMINAL TUBING SIZE)	THREAD (S) PER AS8879	THREAD (T) PER AS8879	(A)	B	C ±.062	ØD +.000 -.015	E ±.062	F ±.003	H	WT LB/EA APPROX
-6H	.3750	.5625-18 UNJF-3A	.5625-18 UNJF-3A	1.688	2.594	---	.871	1.913	.297	.871 - .878	.098
-8H	.5000	.7500-16 UNJF-3A	.5625-18 UNJF-3A	1.688	2.687	---	.996	2.030	.422	.995 - 1.003	.105
-10H	.6250	.8750-14 UNJF-3A	.5625-18 UNJF-3A	1.688	2.750	.812	1.121	2.055	.422	1.121 - 1.128	.111

NOTES:

- MATERIAL: ALUMINUM ALLOY 7075 - SEE PROCUREMENT SPECIFICATION.
- FINISH: SEE PROCUREMENT SPECIFICATION.
- REMOVE BURRS AND SHARP EDGES.
- INSTALLATION IN ACCORDANCE WITH MS21931.
- SURFACE FINISH IN ACCORDANCE WITH ASME B46.1. UNLESS OTHERWISE SPECIFIED, ALL OUTSIDE MACHINED SURFACE SHALL BE 125 µin Ra AND ALL INSIDE SURFACE SHALL BE 250 µin Ra.
- DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED TOLERANCES DECIMALS ±.010, ANGLES ±.5°.
- DIMENSIONING AND TOLERANCING IN ACCORDANCE WITH ASME Y14.5M-1994.
- PART NUMBERS:
LETTERS "L" AND "H" IN PART NUMBERS INDICATE "LOW FLOW" AND "HIGH FLOW", RESPECTIVELY.

CODE "W" FOLLOWING BASIC PART NUMBER MS21938 INDICATES 7075 ALUMINUM ALLOY.

NO CODE LETTER FOR ALUMINUM ALLOY 2014/2024 ARE CANCELLED SUPERSEDED BY CODE "W" 7075 ALUMINUM.
2014/2024 PARTS ARE NO LONGER AVAILABLE FOR PROCUREMENT AFTER 2006.

EXAMPLES OF PART NUMBERS:

MS21938W4L - BOLT, .2500 TUBING, LOW FLOW, 7075 ALUMINUM ALLOY

MS21938W10H - BOLT, .6250 TUBING, HIGH FLOW, 7075 ALUMINUM ALLOY

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	BOLT, CLUSTER FITTING, SINGLE PORT FLARELESS			