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REV.
A

AS21941

FEDERAL SUPPLY CLASS
4730

RATIONALE

AS21941A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S MILITARY STANDARD MS21941D. THIS SAE STANDARD RETAINS THE SAME PART NUMBER ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

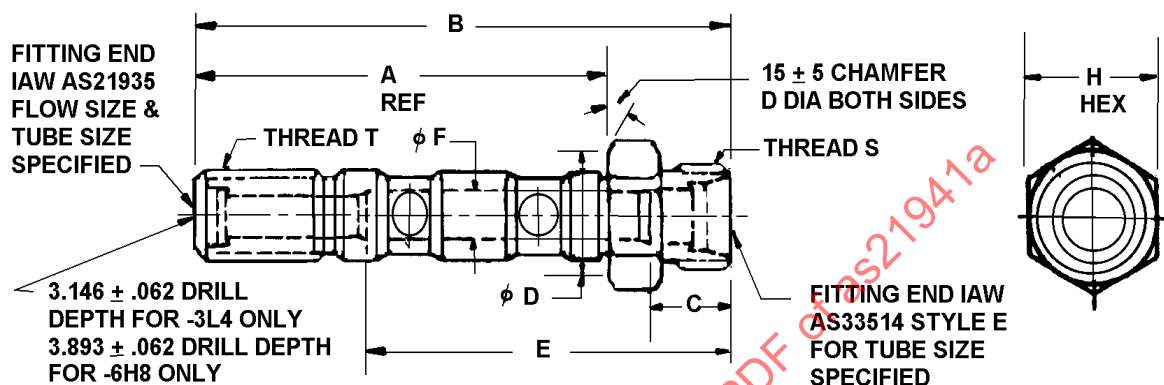


FIGURE 1 - BOLT, CLUSTER FITTING, DOUBLE PORT, THROUGH, FLARELESS, DIMENSIONS AND CONFIGURATION

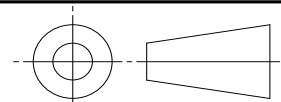
TABLE 1A - BOLT, DOUBLE PORT, THROUGH, FLARELESS, LOW FLOW, DIMENSIONS (A TO C)

LOW FLOW SIZE DASH NO.	TUBE OD	THREAD S AS8879	TUBE OD	THREAD T AS8879	A REF	B	C ±.062
-3L4	.1875	.3750-24 UNJF-3A	.250	.4375-20 UNJF-3A	3.162	3.896	THRU
-4L4	.2500	.4375-20 UNJF-3A	.250	.4375-20 UNJF-3A	3.162	3.959	THRU
-5L4	.3125	.5000-20 UNJF-3A	.250	.4375-20 UNJF-3A	3.162	4.021	---
-6L4	.3750	.5625-18 UNJF-3A	.250	.4375-20 UNJF-3A	3.162	4.068	.663
-8L4	.5000	.7500-16 UNJF-3A	.250	.4375-20 UNJF-3A	3.162	4.161	.656

INACTIVE IN PART /14/

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS21941A>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS18280 /10/



AEROSPACE STANDARD

(R) BOLT, CLUSTER FITTING,
DOUBLE PORT
THROUGH, FLARELESS

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TABLE 1B - BOLT, DOUBLE PORT, THROUGH, FLARELESS, LOW FLOW,
DIMENSIONS (D TO H)

LOW FLOW SIZE DASH NO.	D +.000 -.015	E ±.062	F ±.003	H - HEX		WEIGHT LB EACH APPROX
				MIN	MAX	
-3L4	.621	--	.187	.621	.628	.056
-4L4	.684	THRU	.187	.684	.691	.061
-5L4	.746	2.715	.234	.746	.753	.062
-6L4	.871	2.725	.234	.871	.878	.082
-8L4	.996	2.780	.234	.996	1.003	.092

TABLE 2A - BOLT, DOUBLE PORT, THROUGH, FLARELESS, HIGH FLOW,
DIMENSIONS (A TO C)

HIGH FLOW SIZE DASH NO.	TUBE OD	THREAD S AS8879	TUBE OD	THREAD T AS8879	A	B	C ±.062
-6H4	.3750	.5625-18 UNJF-3A	.2500	.4375-20 UNJF-3A	3.737	4.643	--
-6H5	.3750	.5625-18 UNJF-3A	.3125	.5000-20 UNJF-3A	3.737	4.643	--
-6H6	.3750	.5625-18 UNJF-3A	.3750	.5625-18 UNJF-3A	3.737	4.643	THRU
-6H8	.3750	.5625-18 UNJF-3A	.5000	.7500-16 UNJF-3A	3.737	4.643	THRU
-8H4	.5000	.7500-16 UNJF-3A	.2500	.4375-20 UNJF-3A	3.737	4.736	--
-8H5	.5000	.7500-16 UNJF-3A	.3125	.5000-20 UNJF-3A	3.737	4.736	--
-8H6	.5000	.7500-16 UNJF-3A	.3750	.5625-18 UNJF-3A	3.737	4.736	--
-8H8	.5000	.7500-16 UNJF-3A	.5000	.7500-16 UNJF-3A	3.737	4.736	THRU
-10H4	.6250	.8750-14 UNJF-3A	.2500	.4375-20 UNJF-3A	3.737	4.799	.812
-10H5	.6250	.8750-14 UNJF-3A	.3125	.5000-20 UNJF-3A	3.737	4.799	.812
-10H6	.6250	.8750-14 UNJF-3A	.3750	.5625-18 UNJF-3A	3.737	4.799	.812
-10H8	.6250	.8750-14 UNJF-3A	.5000	.7500-16 UNJF-3A	3.737	4.799	.812

TABLE 2B - BOLT, DOUBLE PORT, THROUGH, FLARELESS,
HIGH FLOW, DIMENSIONS (D TO H)

HIGH FLOW SIZE DASH NO.	D +.000 -.015	E ±.062	F ±.003	H - HEX		WEIGHT LB EACH APPROX
				MIN	MAX	
-6H4	.871	3.162	.297	.871	.878	.148
-6H5	.871	3.162	.297	.871	.878	.152
-6H6	.871	THRU	.297	.871	.878	.158
-6H8	.871	--	.422	.871	.878	.153
-8H4	.996	3.218	.422	.996	1.003	.127
-8H5	.996	3.218	.422	.996	1.003	.138
-8H6	.996	3.218	.422	.996	1.003	.143
-8H8	.996	THRU	.422	.996	1.003	.149
-10H4	1.121	3.242	.422	1.121	1.128	.153
-10H5	1.121	3.242	.422	1.121	1.128	.158
-10H6	1.121	3.242	.422	1.121	1.128	.163
-10H8	1.121	THRU	.422	1.121	1.128	.180



AEROSPACE STANDARD

(R) BOLT, CLUSTER FITTING,
DOUBLE PORT
THROUGH, FLARELESS

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NOTES:

1. MATERIAL: ALUMINUM ALLOY 7075 - SEE PROCUREMENT SPECIFICATION.
2. FINISH: SEE PROCUREMENT SPECIFICATION.
3. REMOVE BURRS AND SHARP EDGES.
4. INSTALLATION IN ACCORDANCE WITH MS21931.
5. SURFACE FINISH IN ACCORDANCE WITH ASME B46.1. UNLESS OTHERWISE SPECIFIED ALL OUTSIDE MACHINED SURFACE SHALL BE 125 μ in Ra AND ALL INSIDE SURFACE SHALL BE 250 μ inRa.
6. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED TOLERANCES: DECIMALS $\pm$.010, ANGLES $\pm$.5°.
7. DIMENSIONING AND TOLERANCING IN ACCORDANCE WITH ASME Y14.5M-1994.
8. PART NUMBERS:

LETTERS 'L' AND 'H' IN PART NUMBERS INDICATE LOW FLOW AND HIGH FLOW RESPECTIVELY

CODE "W" FOLLOWING BASIC PART NUMBER MS21941 SPECIFIES 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:

MS21941W8L4 - BOLT, .5000 TUBING TO .2500 TUBING, LOW FLOW, .7075 ALUMINUM ALLOY

MS21941W10H4 - BOLT, .6250 TUBING TO .2500 TUBING, HIGH FLOW, 7075 ALUMINUM ALLOY

9. SEE TABLE 3 FOR CANCELLED AND SUPERSEDED DOCUMENT AND PART NUMBERS.

TABLE 3 - CANCELLED AND SUPERSEDED DOCUMENT AND PART NUMBERS

CANCELLED DOCUMENT NUMBER	PREVIOUS PART NUMBERS	SUPERSEDING DOCUMENT NUMBER	RETAINING PART NUMBERS
MS21941	MS21941-3L4	AS21941	MS21941W3L4
MS21941	MS21941W3L4	AS21941	MS21941W3L4
MS21941	MS21941-4L4	AS21941	MS21941W4L4
MS21941	MS21941W4L4	AS21941	MS21941W4L4
MS21941	MS21941-5L4	AS21941	MS21941W5L4
MS21941	MS21941W5L4	AS21941	MS21941W5L4
MS21941	MS21941-6L4	AS21941	MS21941W6L4
MS21941	MS21941W6L4	AS21941	MS21941W6L4
MS21941	MS21941-8L4	AS21941	MS21941W8L4
MS21941	MS21941W8L4	AS21941	MS21941W8L4
MS21941	MS21941-6H4	AS21941	MS21941W6H4
MS21941	MS21941W6H4	AS21941	MS21941W6H4
MS21941	MS21941-6H5	AS21941	MS21941W6H5
MS21941	MS21941W6H5	AS21941	MS21941W6H5