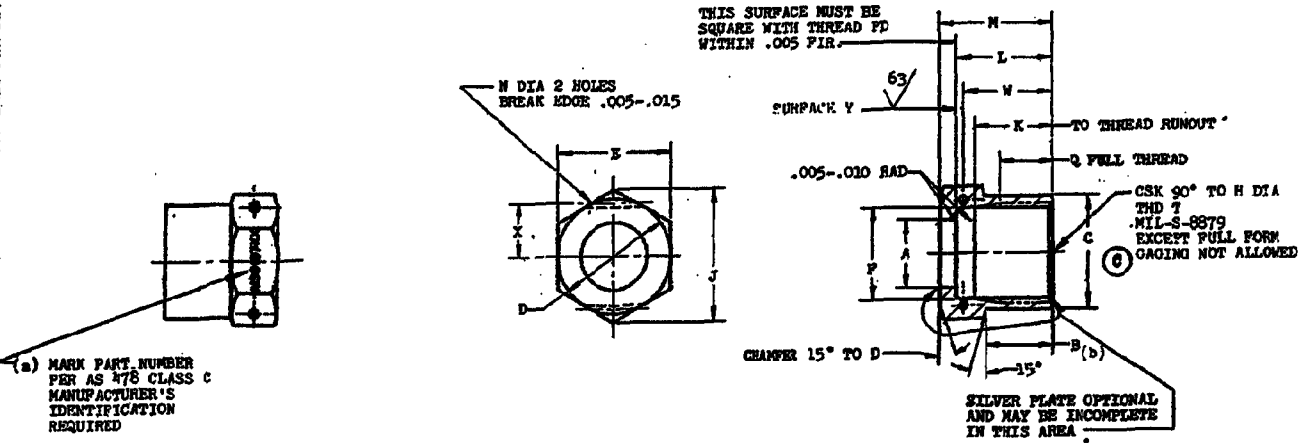
This military standard is approved by the Department of Defense and is mandatory on all activities. Selection for all nonengineering and design applications and for operations use shall be made from this document.

Review activities: USAF-41

Users activities: Navy-MC, XH

MS9197



DIAMETERS A AND F SHALL BE CONCENTRIC TO THREAD PD WITHIN .004 FIR. DIAMETER C AND HEXAGON E SHALL BE CONCENTRIC TO THREAD PD WITHIN .010 FIR.

(a) MULTIPLE MARKING PERMISSIBLE PROVIDED POSITIVE IDENTIFICATION IS SHOWN. PARTS MUST BE MARKED BEFORE THREADING.

(b) TO THEORETICAL SHARP CORNER.

MATERIAL: CORROSION AND HEAT RESISTANT STEEL AMS 5646.
SURFACE FINISH: SILVER PLATE AMS 2410 .0003-.0006 THICK ON THREAD AT PD AND SURFACE Y.
DIMENSIONS SPECIFIED ARE AFTER PLATING.
(C) SURFACE TEXTURE: ANSI B46.1-1962 UNLESS OTHERWISE SPECIFIED SURFACES TO BE 125 MICROINCHES EXCEPT HEX.
FLUORESCENT PENETRANT INSPECTION PER AMS 2645.
BREAK SHARP EDGES .003-.015 UNLESS OTHERWISE SPECIFIED: FILLETS .005-.020 RAD OR CHAMFER.
DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED: TOLERANCES; LINEAR DIMENSIONS ±.010, ANGULAR DIMENSIONS ±5°.
DO NOT USE UNASSIGNED PART NUMBERS.

AS & AMS ARE SOCIETY OF AUTOMOTIVE ENGINEERS, INC. PUBLICATIONS

REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

FED. SUP. CLASS 4730

APPROVED 28 May 62 REVISED (A) 31 Jul 64 (B) 4 May 70 (C) 13 Dec 72

THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE MILITARY SERVICES BY THE SAE AEROSPACE PART STANDARDS DIVISION (C) FOR CHANGES SEE SHEETS 1 & 2

P.A. USAF-82 (C)
Other Cust Navy-AS

PROCUREMENT SPECIFICATION NONE

SUPERSEDES:

TITLE NUT, TUBE COUPLING-CRES AMS 5646, SILVER PLATE

MILITARY STANDARD

MS9197

SHEET 1 OF 2

DD FORM 672-1

This military standard is approved by the Department of Defense and is mandatory on all activities. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

Review activities: USAF - 11

User activities: Navy - MC, XH

MS9197

PART NO.	NOM TUBE OD SIZE	THREAD #	A DIA +.005 -.000	B +.015 (b)	C DIA +.005	D DIA	E	F DIA
MS9197-02	.125	.125-28UNEF-3B	.100 .062 .305	.439 .232 .267	.425 .490 .550	.438 .500 .562	.438- .502 .564	.272- .334- .386-	.280 .342 .397
MS9197-03	.188	.187-24UNEF-3B	.124 .093 .374	.740 .497 .557	.615 .678 .740	.625 .688 .750	.616- .679- .741-	.406- .468- .520-	.459 .517 .579
MS9197-04	.250	.250-20UNEF-3B	.155 .125 .440	.953 .617 .693	.865 .927 .990	.875 .938 .1000	.865- .927- .990-	.570- .632- .695-	.577 .635 .698
MS9197-05	.312	.312-18UNEF-3B	.187 .156 .502	.953 .617 .693	1.115 1.180 1.300	1.125 1.188 1.300	1.114- 1.239- 1.364-	.916- .981- 1.106-	.930 .991 1.116
MS9197-06	.375	.375-16UNEF-3B	.250 .187 .570	.953 .617 .693	1.433 1.680 1.745	1.500 1.750 1.812	1.489- 1.739- 1.800-	1.223- 1.473- 1.534-	1.241 1.491 1.554
MS9197-07	.500	.500-13UNEF-3B	.312 .250 .634	.953 .617 .693	1.800 2.000 2.060	1.875 2.125 2.185	2.113- 2.367- 2.428-	1.794- 2.049- 2.109-	1.804 2.059 2.119
MS9197-08	.625	.625-12UNEF-3B	.375 .312 .698	.953 .617 .693	2.000 2.250 2.310	2.125 2.375 2.435	2.237- 2.488- 2.548-	2.419- 2.669- 2.729-	2.429 2.679 2.739
MS9197-09	.750	.750-10UNEF-3B	.500 .437 .770	.953 .617 .693	2.500 2.750 2.810	2.625 2.875 2.935	2.737- 2.988- 3.048-	2.919- 3.169- 3.229-	2.929 3.179 3.239
MS9197-10	.875	.875-9UNEF-3B	.688 .625 .888	.953 .617 .693	3.000 3.250 3.310	3.125 3.375 3.435	3.237- 3.488- 3.548-	3.419- 3.669- 3.729-	3.429 3.679 3.739
MS9197-11	1.000	1.000-8UNEF-3B	.750 .688 .963	1.113 .723 .793	3.500 3.750 3.810	3.625 3.875 3.935	3.737- 3.988- 4.048-	3.919- 4.169- 4.229-	3.929 4.179 4.239
MS9197-12	1.125	1.125-7UNEF-3B	.875 .812 1.078	1.113 .723 .793	4.000 4.250 4.310	4.125 4.375 4.435	4.237- 4.488- 4.548-	4.419- 4.669- 4.729-	4.429 4.679 4.739
MS9197-13	1.250	1.250-7UNEF-3B	1.000 .937 1.203	1.113 .723 .793	4.500 4.750 4.810	4.625 4.875 4.935	4.737- 4.988- 5.048-	4.919- 5.169- 5.229-	4.929 5.179 5.239
MS9197-14	1.500	1.500-6UNEF-3B	1.125 1.062 1.453	1.453 .953 1.053	5.000 5.250 5.310	5.125 5.375 5.435	5.237- 5.488- 5.548-	5.419- 5.669- 5.729-	5.429 5.679 5.739
MS9197-15	1.875	1.875-5UNEF-3B	1.500 1.437 1.828	1.453 .953 1.053	6.000 6.250 6.310	6.125 6.375 6.435	6.237- 6.488- 6.548-	6.419- 6.669- 6.729-	6.429 6.679 6.739
MS9197-16	2.250	2.250-4UNEF-3B	1.875 1.812 2.203	1.453 .953 1.053	7.500 7.750 7.810	7.625 7.875 7.935	7.737- 7.988- 8.048-	7.919- 8.169- 8.229-	7.929 8.179 8.239
MS9197-17	2.500	2.500-4UNEF-3B	2.125 2.062 2.453	1.453 .953 1.053	8.000 8.250 8.310	8.125 8.375 8.435	8.237- 8.488- 8.548-	8.419- 8.669- 8.729-	8.429 8.679 8.739
MS9197-18	3.000	3.000-4UNEF-3B	2.625 2.562 2.953	1.453 .953 1.053	9.500 9.750 9.810	9.625 9.875 9.935	9.737- 9.988- 10.048-	9.919- 10.169- 10.229-	9.929 10.179 10.239

PART NO.	NOM TUBE OD SIZE	K MAX	L +.005	M	N	P MIN	N	X	APPROX WEIGHT LB/100
MS9197-02	.125	.425 .282 .397	.573 .422 .497	.650 .657 .768	.045-.075 .057-.082 .055-.075	.300 .316 .338	.532 .522 .587	.280- .210- .285-	1.210 1.415 1.896
MS9197-03	.188	.625 .344 .488	.938 .687 .783	.850 .857 .968	.045-.075 .057-.082 .055-.075	.300 .316 .338	.532 .522 .587	.280- .210- .285-	1.210 1.415 1.896
MS9197-04	.250	.875 .406 .563	.938 .687 .783	.850 .857 .968	.045-.075 .057-.082 .055-.075	.300 .316 .338	.532 .522 .587	.280- .210- .285-	1.210 1.415 1.896
MS9197-05	.312	.875 .406 .563	.938 .687 .783	.850 .857 .968	.045-.075 .057-.082 .055-.075	.300 .316 .338	.532 .522 .587	.280- .210- .285-	1.210 1.415 1.896
MS9197-06	.375	.875 .406 .563	.938 .687 .783	.850 .857 .968	.045-.075 .057-.082 .055-.075	.300 .316 .338	.532 .522 .587	.280- .210- .285-	1.210 1.415 1.896
MS9197-07	.500	.875 .406 .563	.938 .687 .783	.850 .857 .968	.045-.075 .057-.082 .055-.075	.300 .316 .338	.532 .522 .587	.280- .210- .285-	1.210 1.415 1.896
MS9197-08	.625	.875 .406 .563	.938 .687 .783	.850 .857 .968	.045-.075 .057-.082 .055-.075	.300 .316 .338	.532 .522 .587	.280- .210- .285-	1.210 1.415 1.896
MS9197-09	.750	.875 .406 .563	.938 .687 .783	.850 .857 .968	.045-.075 .057-.082 .055-.075	.300 .316 .338	.532 .522 .587	.280- .210- .285-	1.210 1.415 1.896
MS9197-10	.875	.875 .406 .563	.938 .687 .783	.850 .857 .968	.045-.075 .057-.082 .055-.075	.300 .316 .338	.532 .522 .587	.280- .210- .285-	1.210 1.415 1.896
MS9197-11	1.000	.875 .406 .563	.938 .687 .783	.850 .857 .968	.045-.075 .057-.082 .055-.075	.300 .316 .338	.532 .522 .587	.280- .210- .285-	1.210 1.415 1.896
MS9197-12	1.125	1.375 .625 .813	1.438 .937 1.078	.950 .957 1.068	.065-.075 .065-.082 .065-.075	.400 .416 .438	.648 .668 .777	.400- .427- .465-	.480 .467 .885
MS9197-13	1.250	1.375 .625 .813	1.438 .937 1.078	.950 .957 1.068	.065-.075 .065-.082 .065-.075	.400 .416 .438	.648 .668 .777	.400- .427- .465-	.480 .467 .885
MS9197-14	1.500	1.375 .625 .813	1.438 .937 1.078	.950 .957 1.068	.065-.075 .065-.082 .065-.075	.400 .416 .438	.648 .668 .777	.400- .427- .465-	.480 .467 .885
MS9197-15	1.875	2.111 .937 1.203	2.938 .937 1.078	.950 .957 1.068	.065-.075 .065-.082 .065-.075	.400 .416 .438	.648 .668 .777	.400- .427- .465-	.480 .467 .885
MS9197-16	2.250	2.111 .937 1.203	2.938 .937 1.078	.950 .957 1.068	.065-.075 .065-.082 .065-.075	.400 .416 .438	.648 .668 .777	.400- .427- .465-	.480 .467 .885
MS9197-17	2.500	2.111 .937 1.203	2.938 .937 1.078	.950 .957 1.068	.065-.075 .065-.082 .065-.075	.400 .416 .438	.648 .668 .777	.400- .427- .465-	.480 .467 .885
MS9197-18	3.000	2.111 .937 1.203	2.938 .937 1.078	.950 .957 1.068	.065-.075 .065-.082 .065-.075	.400 .416 .438	.648 .668 .777	.400- .427- .465-	.480 .467 .885

FSC 4730

MS9197

APPROVED 26 May 62 REVISED (C) FOR CHANGES SEE SHEETS 1 AND 2.

THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE MILITARY SERVICES BY THE SAE AEROSPACE PART STANDARDS DIVISION

F.A. USAF - 68 (C)
Other Cust
Navy - AS

TITLE NUT, TUBE COUPLING - CRES AMS 5646, SILVER PLATE

PROCUREMENT SPECIFICATION NO.18

CATEGORIES

MILITARY STANDARD

MS9197

SHEET 1 OF

DD FORM 672-1

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.