

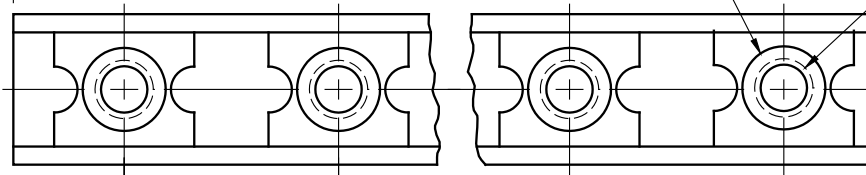
FED. SUPPLY CLASS

5310

SHAPE OF HOLE IN HOUSING OPTIONAL
WITHIN LIMITS OF "ØP" TO ACCOMMODATE
FLOAT REQUIREMENTS.

T THREAD

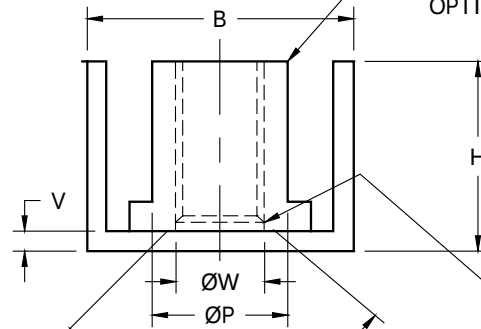
STOCK LENGTH APPROX. 72 INCHES



$L \pm .015$
TOLERANCE NON-CUMULATIVE

$\frac{L}{2} - .032$ OR F, WHICHEVER IS GREATER

SHAPE OF
LOCKING
PORTION
OPTIONAL



CONFIGURATION OF NUT OPTIONAL WITHIN
THE LIMITATIONS IMPOSED BY DIMENSIONS
AND REQUIREMENTS AS SPECIFIED HEREIN.

SHAPE OF CORNER
OPTIONAL WITHIN LIMITS
OF CSK ANGLE AND "ØW"

TABLE I – DASH NUMBERS AND DIMENSIONS

DASH NO.	T THREAD SIZES	B MAX	F MIN	H /1/		L MIN SPACING AVAILABLE	ØP /2/		V MAX	ØW MIN	AXIAL STRENGTH LBF/MIN	WEIGHT MAX	
				MAX	MIN		MAX	MIN				NUT ELEMENTS LBS/100	CHANNEL LBS/INCH
08	.1640-32 UNJC-3B	.422	.343	.312	.234	.625	.270	.184	.030	.168	1,720	.19	.0028
3	.1900-32 UNJF-3B	.422	.343	.318	.234	.625	.270	.210	.030	.190	2,460	.20	.0028
4	.2500-28 UNJF-3B	.518	.406	.393	.283	.750	.330	.270	.037	.250	4,580	.43	.0032
5	.3125-24 UNJF-3B	.648	.469	.387	.283	.750	.393	.333	.045	.312	7,390	.64	.0053
6	.3750-24 UNJF-3B	.726	.562	.479	.434	1.000	.455	.395	.045	.375	11,450	1.08	.0073

THE INITIAL OF THIS DOCUMENT SUPERSEDES MS21079, REVISION F. PART NUMBERS REMAIN MS21079.

THIRD ANGLE PROJECTION	
PROCUREMENT SPECIFICATION	
NASM25027	

CUSTODIAN	NATIONAL AEROSPACE STANDARDS COMMITTEE
TITLE	NUT, SELF-LOCKING, GANG CHANNEL, NON-METALLIC INSERT, 125 KSI Ft _u , 250 °F

REVISION	2
CLASSIFICATION PART STANDARD	MS21079
SHEET 1 OF 4	

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.
1000 WILSON BLVD.
ARLINGTON, VA 22209

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME
PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST
REVISION DATE.

FORM 12-01

REVISION DATE: AUGUST 31, 2016

ISSUE DATE: OCTOBER 1998

MATERIAL:

NUT ELEMENT:

②

CARBON STEEL, COMPOSITIONS 1008 (UNS G10080), 1035 (UNS G10350), 1040 (UNS G10400) OR 1050 (UNS G10500) PER ASTM A29/A29M, ASTM A829/A829 OR ~~AMS-QQ-S-700~~ ASTM A684/A684M; 1042 (UNS G10420) PER ASTM A29/A29M. ~~COMPOSITION 11L37 (UNS G11374) PER AMS5020.~~
ALLOY STEEL, GRADES 4130 (UNS G41300), 4340 (UNS G43400) AND 8740 (UNS G87400), PER ASTM A29/A29M.

CHANNEL:

ALUMINUM, ALLOY 2024, TEMPER T4 (UNS A92024), PER ~~QQ-A-250/4~~ AMS-QQ-A-250/4.
ALUMINUM, ALLOY 7075, TEMPER T6 (UNS A97075), PER ~~QQ-A-250/12~~ AMS-QQ-A-250/12 OR ~~QQ-A-250/13~~ AMS-QQ-A-250/13 (ALCLAD).

NON-METALLIC INSERT:

NYLON OR EQUIVALENT.

HEAT TREATMENT:

NUT ELEMENTS SHALL HAVE A HARDNESS OF 49 HRC, MAX.

FINISH:

NUT ELEMENT: CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2.
CHANNEL: IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.

LUBRICANT:

②

DRY FILM LUBRICANT ON NUT ELEMENT ONLY, APPROVED IN ACCORDANCE WITH NASM25027.
NON-DRY FILM LUBRICANTS SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN AMS-S-8802.

CODE:

THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I AND TABLE II AND A THIRD DASH NUMBER, IF SPECIFIED.
FIRST DASH NUMBER DESIGNATES THREAD SIZE.
SECOND DASH NUMBER DESIGNATES NUT ELEMENT SPACING IN EIGHTHS OF AN INCH.
THIRD DASH NUMBER INDICATES NUMBER OF NUT ELEMENTS WHEN LESS THAN STOCK LENGTH (APPROX 72 INCHES) IS DESIRED.

EXAMPLE OF PART NUMBER:

MS21079-3-6 = NUT, SELF-LOCKING GANG CHANNEL, NON-METALLIC INSERT; GANG CHANNEL ASSEMBLY CONSISTING OF NINETY-SIX .1900-32 UNJF-3B, CADMIUM PLATED NUT ELEMENTS SPACED AT .750 INCHES.

— DASH NUMBER FROM TABLE II
— DASH NUMBER FROM TABLE I
— BASIC PART NUMBER

REVISION

2

MS21079

SHEET 2



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