

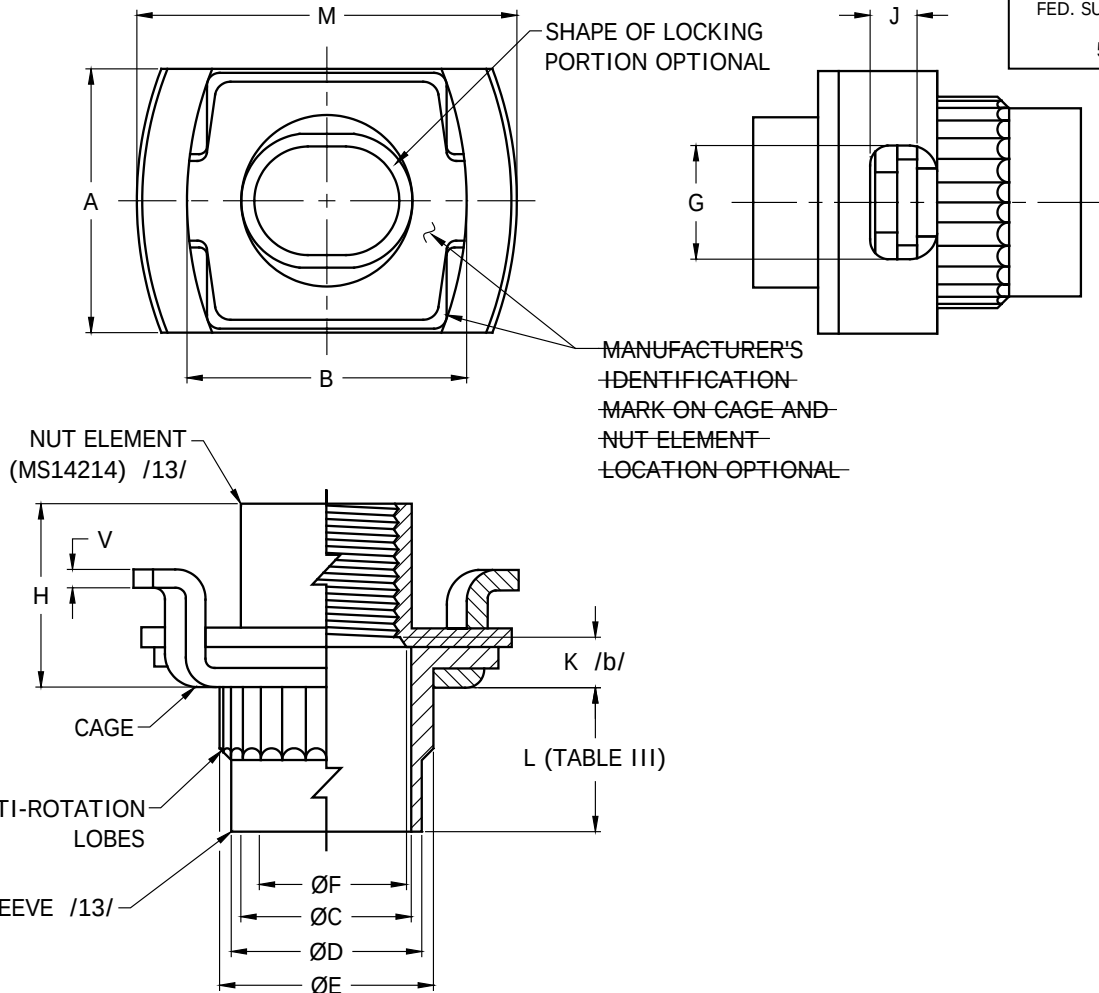


FIGURE 1 – NUT, FLOATING, SELF LOCKING, ATTACHED RETENTION ELEMENT

TABLE I – DIMENSIONS

SIZE DASH NO. /a/	THREAD SIZE AS8879	A MAX	B ±.010	ØC MIN	ØD MAX	ØE		ØF MIN	G ±.010	H MAX	J +.010 -.000	(K) /b/	M MAX	V +.010 -.000	AXIAL STRENGTH LBF MIN
						MIN	MAX								
04	.1120-40 UNJC-3B	.310	.318	.182	.217	.228	.234	.116	.155	.214	.064	.062	.435	.020	750
06	.1380-32 UNJC-3B	.310	.318	.182	.217	.228	.234	.142	.155	.214	.064	.062	.435	.020	1,130
08	.1640-32 UNJC-3B	.405	.425	.235	.270	.296	.304	.168	.187	.270	.075	.068	.587	.025	1,720
3	.1900-32 UNJF-3B	.405	.425	.235	.270	.296	.304	.194	.187	.270	.075	.068	.587	.025	2,480
4	.2500-28 UNJF-3B	.465	.496	.300	.335	.363	.369	.254	.198	.325	.083	.089	.665	.035	4,580

/a/ ASSEMBLY DASH NUMBER IS THE SAME AS MS14214 NUT ELEMENT SIZE DASH NUMBER

/b/ K = (THREAD RELIEF, SLEEVE FLANGE AND CAGE THICKNESS)

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS14200, REVISION B. PART NUMBERS REMAIN MS14200.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 3
PROCUREMENT SPECIFICATION NASM25027	TITLE NUT, FLOATING, SELF-LOCKING, ATTACHED RETENTION ELEMENT (A.R.E.), 450 °F, STEEL, 125 KSI Ft_u, REPLACEABLE NUT ELEMENT	CLASSIFICATION PART STANDARD
		MSM14200 SHEET 1 OF 4

MATERIAL:

NUT ELEMENT: STEEL AISI 1050 (UNS G10500) PER AMS5085, OR AISI 4130 (UNS G41300) PER AMS6351.
SLEEVE: CRES AISI 304 (UNS S30400) PER AMS5639, OR AISI 305 (UNS S30500) PER AMS5514.
CAGE: STEEL AISI 1050 (UNS G10500) PER AMS5085.

HEAT TREATMENT:

NUT ELEMENT: 49 HRC MAX.
CAGE: 40–47 HRC

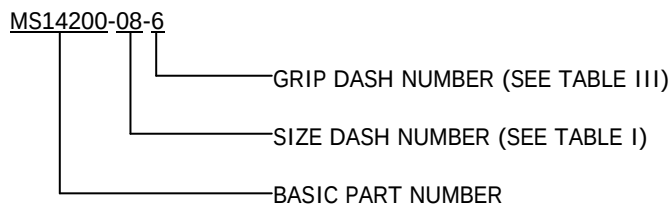
FINISH:

SLEEVE AND CAGE SHALL BE CADMIUM PLATED PER AMS-QQ-P-416, TYPE II CLASS 2.
NUT ELEMENT SHALL BE CADMIUM PLATED PER AMS-QQ-P-416. TYPE AND CLASS OPTIONAL PROVIDED THE ELEMENT MEETS THE SALT SPRAY REQUIREMENTS OF NASM25027.

LUBRICATION:

NUT ELEMENT ONLY SHALL BE DRY FILM LUBRICATED PER MIL-PRF-46010, TYPE I AS5272, TYPE I.

EXAMPLE OF PART NUMBER:



NOTES:

- (1) APPLICATION AND DESIGN SELECTION: THESE A.R.E. (ATTACHED RETENTION ELEMENT) NUT ASSEMBLIES SHALL BE SELECTED AND USED IN ACCORDANCE WITH NASM33588.
- (2) OVERSIZE NUT: MS14201 OVERSIZE NUTS MAY BE USED AS REPLACEMENT FOR MS14200 NUTS.
- (3) REPLACEMENT NUT ELEMENT: MS14214
- (4) PERFORMANCE PER NASM25027: INSTALLATION HOLES SHALL BE PER TABLE II, PANEL GRIP THICKNESS PER TABLE III.
- (5) SURFACE ROUGHNESS: 125 MICROINCHES Ra PER ASME B46.1 UNLESS OTHERWISE SPECIFIED.
- (6) NUT FLOAT: MINIMUM RADIAL FLOAT 0.020 INCH. THE NUT ELEMENT SHALL BE CAPABLE OF ENGAGEMENT WITH THE BOLT IN MAXIMUM MISALIGNED POSITION.
- (7) NUT ELEMENT SHALL BE REMOVABLE FROM THE CAGE WITH PROPER REMOVAL TOOL, AND A NEW NUT PER NASM14214 SHALL BE CAPABLE OF BEING SNAPPED IN PLACE IN THE CAGE.
- (8) CAGE SHALL BE CAPABLE OF BEING REUSED A MINIMUM OF 5 TIMES FOR THE REPLACEMENT OF THE NUT ELEMENT IN ACCORDANCE WITH NASM14214 AND THEN THE NUT SHALL MEET THE TORQUE OUT AND PUSH OUT VALUES OF NASM25027.
- (9) REMOVE ALL BURRS AND SHARP EDGES.

REVISION

3

NASM14200

SHEET 2



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