CRITICAL DESIGN INFORMATION

START EVERY DESIGN BY FINDING "Lnom"

IF "Lnom" IS NOT GIVEN ON THE CUSTOMER DRAWING, USE EITHER THE MAXIMUM LENGTH (Mmax) OR MINIMUM FULL THREAD LENGTH (Lf) FROM THE CUSTOMER DRAWING TO CALCULATE IT USING ONE OF THE FOLLOWING EQUATIONS

PREFERRED: SECONDARY:

10.08

Date Issued: 12/01/99

Lnom = Mmax-74-TLnom = Lf+U+T

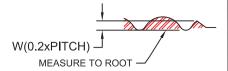
T = 0.15 FOR Lnom SHORTER THAN OR EQUAL TO 50mm T = 0.25 FOR Lnom GREATER THAN 50mm

Lnom MUST BE ON EVERY PART DRAWING DO NOT CHANGE ANY DIMENSION GIVEN WITHOUT CONSULTING MATHREAD

Revision Level: An

INSPECTION INFORMATION:

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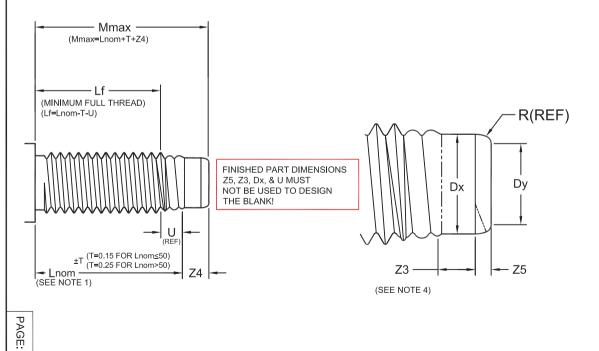


1. Lnom ON ROLLED PART IS MEASURED TO THE POINT ON THE LEAD THREAD WHERE IT FIRST REACHES A HEIGHT OF 'W' (0.2xPITCH) WHEN MEASURED FROM THE ROOT OF THE THREAD. (see sketch above)

2. MATpoint SHALL HÁVE A MINIMUM OF 1.0 COMPLETE TURN OF RADIUSED THREAD. THREAD MUST BE FULLY FORMED, WITH NO UNDER FILL (FLATS, FISSURES) AT PEAK OF THREAD. WHEN VIEWED IN THE DESIGNATED INSPECTION POSITION, THREE COMPLETE RADIUSED THREAD PROFILES MUST BE VISIBLE.

3. APPROPRIATE "GO" GAGE MUST COMPLETELY PASS OVER MATPOINT SECTION OF THREAD WITH MINIMAL DRAG BEFORE PLATING. GAGE MUST HAVE MINOR DIAMETER VERIFIED TO ANSI/ASME B1.16-1984 BEFORE USE.

4. "Z3" MUST BE MEASURED TO TANGENT POINT OF 'R', USING MAThread APPROVED RADIUS CHART FROM POINT "W" TO TANGENT



Date Revised: 3/5/19

	THREAD SIZE & PITCH	REF	Dy MAX	+.01 01	Dx	Z ₃ MIN	Z ₄ MAX	Z5 MIN	REF
COARSE THREAD	M4x.7	1.20	2.7	0.14	3.170 3.098	1.20	2.40	0.50	1.50
	M5x.8	1.50	3.4	0.16	4.030 3.954	1.30	2.50	0.60	1.80
	M6x1.0	1.80	4.0	0.20	4.800 4.724	1.50	2.85	0.75	2.30
	M8x1.25	2.30	5.5	0.25	6.540 6.447	2.10	3.90	1.00	2.80
	M10x1.5	2.80	6.8	0.30	8.230 8.143	2.60	4.65	1.25	3.40
	M12x1.75	3.30	8.2	0.35	9.950 9.880	3.15	5.65	1.50	4.00
	M14x2.0	4.10	9.6	0.40	11.720 11.604	3.68	6.43	1.75	4.50
	M16x2.0	4.70	10.9	0.40	13.720 13.609	4.10	7.10	2.00	4.50
	DIMENSIONS ARE IN MILLIMETERS (mm)								
FINE THREAD	M8x1.0	2.50	6.0	0.20	6.810 6.724	2.10	3.90	1.00	2.30
	M10x1.25	3.00	7.5	0.25	8.540 8.447	2.60	4.85	1.25	2.80
	M12x1.5	3.50	8.8	0.30	10.260 10.143	3.15	6.00	1.50	3.40
	M14x1.5	4.30	10.8	0.30	12.260 12.143	3.68	6.55	1.75	3.40
	M16x1.5	4.90	12.8	0.30	14.260 14.143	4.10	7.20	2.00	3.40

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