

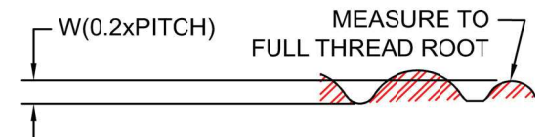
CRITICAL DESIGN INFORMATION
START EVERY DESIGN BY FINDING "Lnom"

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: $L_{nom} = M_{max} - Z_4 - T$
SECONDARY: $L_{nom} = L_f + U + T$

T = 0.15 FOR PARTS SHORTER THAN OR EQUAL TO 50mm
T = 0.25 FOR PARTS LONGER THAN 50mm

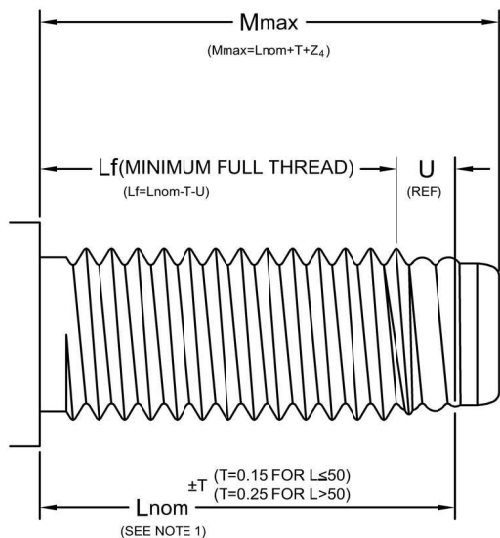
Lnom MUST BE ON EVERY PART AND BLANK DRAWING
DO NOT CHANGE ANY DIMENSION GIVEN WITHOUT CONSULTING MATHREAD



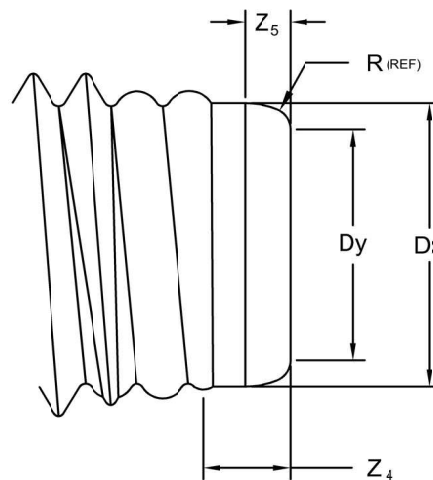
INSPECTION INFORMATION:

PARTS SHALL BE INSPECTED PER SECTION 7:

- 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 STANDARD PROFILE THREAD.
(see sketch above) NOTE THAT TOLERANCE ON Lnom ON THREAD-ROLLED PARTS, IS DIFFERENT THAN TOLERANCE ON HEADED PARTS.
- MATpoint SHALL HAVE A MINIMUM OF 1.0 COMPLETE TURN OF RADIUSED THREAD. THREAD MUST BE FULLY FORMED, WITH NO UNDER FILL (FLATS, FISSURES) AT PEAK OF T-THREAD. WHEN VIEWED IN THE DESIGNATED INSPECTION POSITION, THREE COMPLETE RADIUSED THREAD PROFILES MUST BE VISIBLE.
- 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 B1.16M-1984 BEFORE USE.
- LAST TURN OF LEAD THREAD MUST HAVE ESSENTIALLY LINEAR REDUCTION IN HEIGHT AND SMOOTH CONTOUR SIMILAR TO FULL HEIGHT RADIUS THREAD



FINISHED PART DIMENSIONS
Z5, Dx, & U MUST
NOT BE USED TO DESIGN
THE BLANK!



THREAD SIZE & PITCH	R REF	Dy MAX	Z5 MIN	Dx MAX	Z4 MAX	W +.01 -0.1	U REF
M4x.7	1.2	2.7	0.50	3.17	1.08	0.14	1.50
M5x.8	1.5	3.4	0.60	4.03	1.37	0.16	1.80
M6x1.0	1.8	4.0	0.75	4.80	1.45	0.20	2.30
M8x1.25	2.3	5.5	1.00	6.54	1.90	0.25	2.80
M10x1.5	2.8	6.8	1.25	8.23	2.51	0.30	3.40
M12x1.75	3.3	8.2	1.50	9.95	3.12	0.35	4.00
M14x2.0	4.1	9.6	1.75	11.72	3.38	0.40	4.50
M16x2.0	4.7	10.9	2.00	13.72	3.64	0.40	4.50
DIMENSIONS ARE IN MILLIMETERS (mm)							
M8x1.0	2.5	6.0	1.00	6.81	1.90	0.20	2.30
M10x1.25	3.0	7.5	1.25	8.54	2.28	0.25	2.80
M12x1.5	3.5	8.8	1.50	10.26	2.76	0.30	3.40
M14x1.5	4.3	10.8	1.75	12.26	3.17	0.30	3.40
M16x1.5	4.9	12.8	2.00	14.26	3.56	0.30	3.40