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: Lnom = Mmax-Z4-TLnom = Lf+U+T

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

Lnom MUST BE ON EVERY PART DRAWING DO NOT CHANGE ANY DIMENSION GIVEN WITHOUT CONSULTING MATHREAI W(0.2xPITCH)

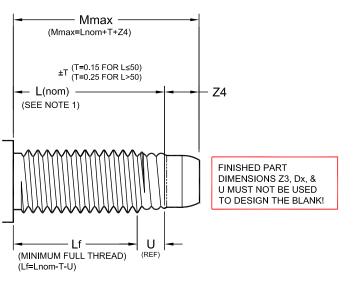
MEASURE TO ROOT

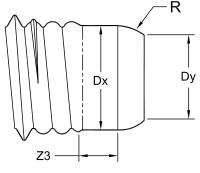
## INSPECTION INFORMATION:

- 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)
- MAThread SHALL HAVE A MINIMUM OF 1.5 COMPLETE TURNS 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, FOUR COMPLETE RADIUSED THREAD PROFILES MUST BE VISIBLE.
- 3. APPROPRIATE "GO" GAGE MUST COMPLETELY PASS OVER MAThread SECTION OF THREAD WITH MINIMAL DRAG BEFORE PLATING. GAGE MUST HAVE MINOR DIAMETER VERIFIED TO ANSI/ASME B1.16-1984 BEFORE USE.

THREAD R DV

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





COARSE THREAD	SIZE & PITCH	MIN	MAX	+.01 01		MIN	MAX	REF
	M4x.7	1.5	2.7	0.14	3.170 3.098	1.0	2.0	2.1
	M5x.8	1.9	3.4	0.16	4.030 3.954	1.2	2.5	2.4
	M6x1.0	2.3	4.1	0.20	4.800 4.724	1.7	3.0	3.0
	M8x1.25	3.0	5.4	0.25	6.540 6.447	2.4	4.3	3.8
	M10x1.5	3.8	6.8	0.30	8.230 8.143	2.9	5.5	4.5
	M12x1.75	4.6	8.2	0.35	9.950 9.880	3.7	6.6	5.3
	M14x2.0	5.4	9.6	0.40	11.720 11.604	4.0	7.9	6.0
	M16x2.0	6.0	11.5	0.40	13.720 13.609	4.2	7.9	6.0
	DIMEN	SIONS	: ADE	INI MII I	INTET	-DQ /m	m)	

W

Dx

## DIMENSIONS ARE IN MILLIMETERS (mm)

FINE I HREAD	M8x1.0	1.9	5.7	0.20	6.810 6.724	2.2	4.1	3.0
	M10x1.25	2.4	7.0	0.25	8.470 8.447	2.8	5.3	3.8
	M12x1.5	2.9	8.5	0.30	10.260 10.143	2.8	6.5	4.5
	M14x1.5	3.7	9.8	0.30	12.260 12.143	4.6	8.5	4.5
	M16x1.5	4.2	11.2	0.30	14.260 14.143	5.8	10.5	4.5

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(SEE NOTE 4)

SEE PAGE 1.02 FOR PATENT INFORMATION