

Customer Design Standards

MAThread [®]- RADIUSED DOG (PILOT) POINT

W(0.2xPITCH)

MEASURE TO ROOT

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

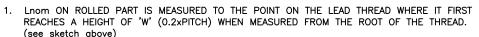
> PREFERRED: Lnom = Mmax-Z4-T SECONDARY: Lnom = Lf+U+T

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 COLSULTING MATHREAD

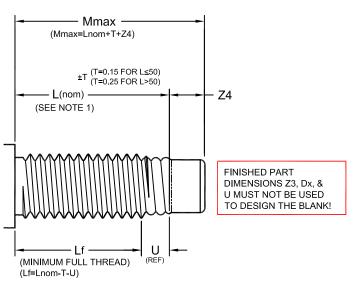
INSPECTION INFORMATION:

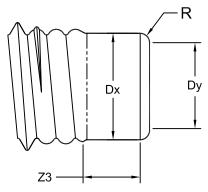


MAThread SHALL HAVE A MINIMUM OF 1.5 COMPLETE TURNS OF RADIUSED THREAD.
 THREAD MUST BE FULLY FORMED, WITH NO UNDER FILL (FLATS, FISSURES) AT PEAK OF
 THREAD. WHEN VIEWED IN THE DESIGNATED INSPECTION POSITION, FOUR COMPLETE
 RADIUSED THREAD PROFILES MUST BE VISIBLE.

 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.

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





(SEE NOTE 4)

THREAD SIZE & PITCH	R MIN	Dy MAX	+.01 01	Dx	Z ₃ MIN	Z ₄ MAX	U REF		
M4x.7	0.2	2.8	0.14	3.170 3.098	1.50	2.20	2.1		
M5x.8	0.4	3.2	0.16	4.030 3.954	1.80	2.60	2.4		
M6x1.0	0.5	3.9	0.20	4.800 4.724	2.00	3.10	3.0		
M8x1.25	0.7	5.1	0.25	6.540 6.447	2.70	4.20	3.8		
M10x1.5	1.5	5.3	0.30	8.230 8.143	3.20	5.50	4.5		
M12x1.75	2.0	6.0	0.35	9.950 9.880	4.20	6.60	5.3		
M14x2.0	2.5	6.7	0.40	11.720 11.604	5.00	7.90	6.0		
M16x2.0	3.0	8.7	0.40	13.720 13.609	6.00	9.90	6.0		
DIMENOIONO ADE IN MILLIMETERO (****)									

DIMENSIONS ARE IN MILLIMETERS (mm)

EAD	M8x1.0	0.7	5.9	0.20	6.810 6.724	2.70	4.20	3.0
	M10x1,25	1.5	6.2	0.25	8.470 8.447	3.20	5.50	3.8
THRE,	M12x1.5	2.0	6.9	0.30	10.260 10.143	4.20	6.60	4.5
FINE	M14x1.5	2.5	8.0	0.30	12.260 12.143	5.00	7.90	4.5
	M16x1.5	3.0	11.9	0.30	14.260 14.143	6.00	9.90	4.5

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