

E

D

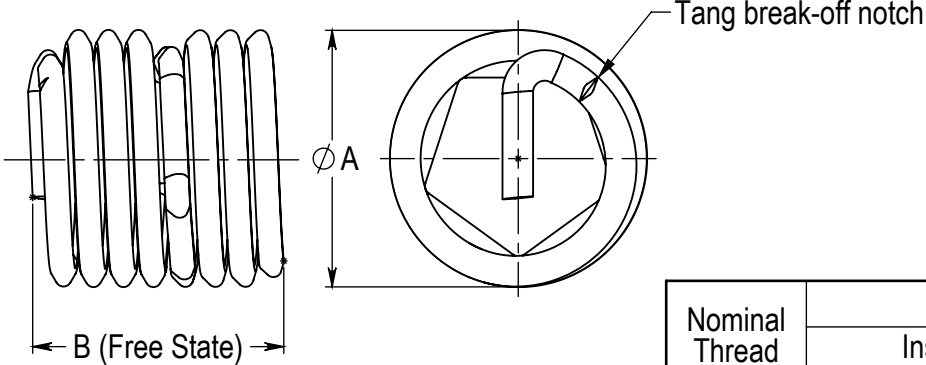
C

B

A

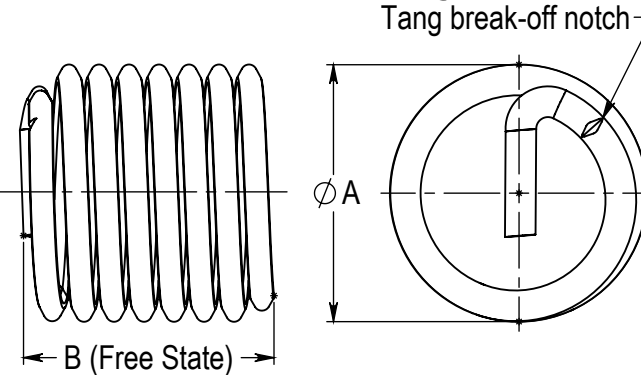
Revision	Revised By	Description	Date	Approval
New	GP	Initial Release	11-12-18	MO

Locking



TLM	-	10X1	C	-	15	W	SF
1		2	3		4	5	see note 9

Non-Locking



Nominal Thread Size	1		2	3	4					5	Free Outer Diameter (A)		Number of Coils (B, see note 4)				
	Insert Style		Size	Material	Nominal Length					Finish	Min	Max	1D	1.5D	2D	2.5D	3D
	Locking	Non-Locking			1D	1.5D	2D	2.5D	3D								
M8X1	TLM	TNM	8X1	B- Phosphor Bronze C- CRES Steel (304 Stainless Steel) ¹⁰ N- Nitronic 60® M- Nimonic 90® T- Inconel X-750	8.0	12.0	16.0	20.0	24.0	Blank- No Finish W- Dry Film Lubricant Y- Cadmium V- Silver Plating A- Passivation P- Xylan B- Blue Dye G- Green Dye	9.70	10.25	5-7/8	9-3/8	13	16-1/2	20-1/8
M10X1			10X1		10.0	15.0	20.0	25.0	30.0		11.95	12.50	7-5/8	12	16-1/2	21	25-1/2
M10X1.25			10X1.25		10.0	15.0	20.0	25.0	30.0		12.10	12.65	5-7/8	9-1/2	13-1/8	16-3/4	20-3/8
M12X1.25			12X1.25		12.0	18.0	24.0	30.0	36.0		14.30	15.00	7-1/4	11-5/8	15-7/8	20-1/4	24-1/2
M12X1.5			12X1.5		12.0	18.0	24.0	30.0	36.0		14.25	14.95	6	9-5/8	13-3/8	17	20-3/4
M14X1.5			14X1.5		14.0	21.0	28.0	35.0	42.0		16.55	17.25	7-1/8	11-3/8	15-5/8	20	24-1/4
M16X1.5			16X1.5		16.0	24.0	32.0	40.0	48.0		18.90	19.60	8-1/4	13-1/8	18	22-3/4	27-5/8
M18X1.5			18X1.5		18.0	27.0	36.0	45.0	54.0		21.05	21.75	9-1/2	15	20-3/8	25-7/8	31-3/8
M20X1.5			20X1.5		20.0	30.0	40.0	50.0	60.0		23.15	24.00	10-3/4	16-7/8	22-7/8	28-7/8	35
M22X1.5			22X1.5		22.0	33.0	44.0	55.0	66.0		25.55	26.45	11-7/8	18-1/2	25-1/8	31-5/8	38-1/4
M18X2			18X2		18.0	27.0	36.0	45.0	54.0		21.15	21.85	7	11-1/8	15-3/8	19-1/2	23-5/8
M20X2			20X2		20.0	30.0	40.0	50.0	60.0		23.20	24.05	7-7/8	12-1/2	17-1/4	21-7/8	26-1/2
M22X2			22X2		22.0	33.0	44.0	55.0	66.0		25.60	26.50	8-3/4	13-3/4	18-7/8	23-7/8	29
M24X2			24X2		24.0	36.0	48.0	60.0	72.0		28.10	29.10	9-1/2	15	20-3/8	25-7/8	31-3/4
M27X2			27X2		27.0	40.5	54.0	67.5	81.0		31.30	32.30	10-7/8	17	23-1/4	29-3/8	35-1/2
M30X2			30X2		30.0	45.0	60.0	75.0	90.0		34.50	35.70	12-1/4	19-1/8	25-7/8	32-3/4	39-1/2
M33X2			33X2		33.0	49.5	66.0	82.5	99.0		37.80	39.20	13-5/8	21-1/8	28-5/8	36	43-1/2
M36X2			36X2		36.0	54.0	72.0	90.0	108.0		41.00	42.40	15	23-1/4	31-3/8	39-1/2	47-3/4
M39X2			39X2		39.0	58.5	78.0	97.5	117.0		44.30	45.70	16-3/8	25-1/4	34-1/8	43	51-7/8
M36X3			36X3		36.0	54.0	72.0	90.0	108.0		41.30	42.70	9-3/4	15-1/4	20-7/8	26-1/2	32
M39X3			39X3		39.0	58.5	78.0	97.5	117.0		44.40	45.80	10-3/4	16-3/4	22-3/4	28-7/8	34-7/8

- Notes:
- For each threadsize, complete part number consists of combining columns 1-5 across each row.
 - The nominal length is a calculated number and cannot be used to measure the insert in the free state. It is the actual installed length of the insert plus 0.5 pitch ($L_n = L_a + 0.5P$), see column 4.
 - The nominal length of the insert is a function of the nominal thread size ($1.5D \times 10 \text{ mm} = 15 \text{ mm}$).
 - The number of free coils is measured 90° from the tang. It is the total number of revolutions ± 0.25 coil.
 - Assembled length of insert is in accordance to MA1567.
 - Locking torque specification conforms to MA1565.
 - As applicable, inserts meet MA3279 through MA3281, or MA3329 through MA3331 specification.
 - Inserts can accomadate external/internal MJ threads in accordance with MA1370 and FED-STD-H28/21.
 - For strip-feed packaged inserts, use "SF" at the end of the part number. Not available for all sizes and all plating options. Leave blank for bulk packaged inserts.
 - 304 Stainless Steel is the most popular wire material and meets AS7245 specification.

KATO Fastening Systems, Inc., 11864 Fishing Point Dr., Newport News, VA 23606, www.katofastening.com				
Drawing No.	KSTD-006	Description	KATO Tanged Metric-Fine Pitch Standard, Locking & Non-Locking Screw Thread Inserts (STI)	
Revision	New	Drawn By	G. Patterson	
Date	11-12-18	Approved By	M. Oana	
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