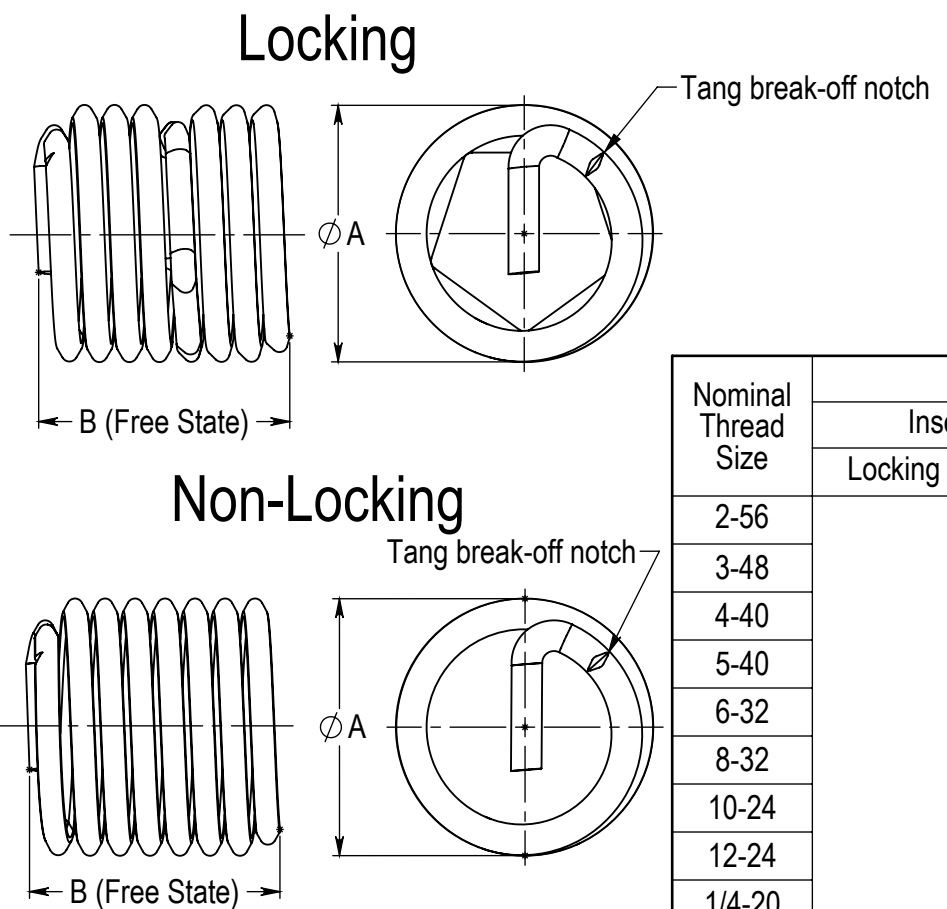


Revision	Revised By	Description	Date	Approval
New	GP	Initial Release	11-12-18	MO



TLC	-	3	C	-	0285	W	SF
1		2	3		4	5	see note 9

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
2-56	TLC	TNC	02	B- Phosphor Bronze C- CRES Steel (304 Stainless Steel) ¹⁰ N- Nitronic 60 [®] M- Nimonic 90 [®] T- Inconel X-750	0.086	0.129	0.172	0.215	0.258	Blank- No Finish W- Dry Film Lubricant Y- Cadmium V- Silver Plating A- Passivation P- Xylan B- Blue Dye G- Green Dye	0.110	0.119	3	5-1/4	7-3/8	9-5/8	11-7/8			
3-48			03		0.099	0.148	0.198	0.248	0.297		0.128	0.139	2-7/8	5	7-1/4	9-3/8	11-1/2			
4-40			04		0.112	0.168	0.224	0.280	0.336		0.144	0.159	2-3/4	4-3/4	6-3/4	8-7/8	10-7/8			
5-40			05		0.125	0.188	0.250	0.312	0.375		0.158	0.173	3-1/4	5-1/2	7-3/4	10	12-1/4			
6-32			06		0.138	0.207	0.276	0.345	0.414		0.178	0.193	2-3/4	4-3/4	6-7/8	8-7/8	10-7/8			
8-32			2		0.164	0.246	0.328	0.410	0.492		0.205	0.220	3-1/2	6	8-3/8	10-3/4	13-1/4			
10-24			3		0.190	0.285	0.380	0.475	0.570		0.244	0.259	2-7/8	5	7-1/8	9-1/4	11-3/8			
12-24			1		0.216	0.324	0.432	0.540	0.648		0.270	0.285	3-1/2	6	8-3/8	10-5/8	13-1/8			
1/4-20			4		0.250	0.375	0.500	0.625	0.750		0.310	0.330	3-3/8	5-3/4	8	10-3/8	12-3/4			
5/16-18			5		0.312	0.469	0.625	0.781	0.938		0.380	0.400	4	6-5/8	9-1/4	11-7/8	14-5/8			
3/8-16			6		0.375	0.562	0.750	0.938	1.125		0.452	0.472	4-3/8	7-1/4	10	12-7/8	15-3/4			
7/16-14			7		0.438	0.656	0.875	1.094	1.312		0.526	0.551	4-1/2	7-3/8	10-1/4	13-1/8	16-1/8			
1/2-13			8		0.500	0.750	1.000	1.250	1.500		0.597	0.622	4-7/8	7-7/8	11	14-1/8	17-1/8			
9/16-12			9		0.562	0.844	1.125	1.406	1.688		0.669	0.694	5-1/8	8-1/4	11-1/2	14-3/4	17-7/8			
5/8-11			10		0.625	0.938	1.250	1.562	1.875		0.742	0.767	5-1/4	8-1/2	11-3/4	15	18-3/8			
3/4-10			12		0.750	1.125	1.500	1.875	2.250		0.881	0.906	5-7/8	9-3/8	13	16-1/2	20-1/8			
7/8-9			14		0.875	1.312	1.750	2.188	2.625		1.022	1.052	6-1/4	10	13-3/4	17-1/2	21-1/4			
1-8			16		1.000	1.500	2.000	2.500	3.000		1.166	1.196	6-3/8	10-1/8	14	17-3/4	21-5/8			
1-1/8-7			18		1.125	1.688	2.250	2.812	3.375		1.315	1.355	6-1/8	9-7/8	13-5/8	17-1/2	21-1/4			
1-1/4-7			20		1.250	1.875	2.500	3.125	3.750		1.443	1.483	7	11-1/4	15-3/8	19-1/2	23-3/4			
1-3/8-6			22		1.375	2.062	2.750	3.438	4.125		1.598	1.643	6-1/2	10-1/2	14-3/8	18-3/8	22-1/4			
1-1/2-6			24		1.500	2.250	3.000	3.750	4.500		1.727	1.772	7-1/4	11-1/2	15-7/8	20-1/8	24-1/2			

- 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 ($1.5D \times 0.190 \text{ in} = 0.285 \text{ in}$).
 - 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 NASM33537.
 - Locking torque specification conforms to NASM8846.
 - As applicable, inserts meet NASM21209, or NASM122076-NASM122275 specification.
 - When assembled in an STI thread, conforming to NASM33537 specification, the finished thread shall conform to FED-STD-H28/2, and shall accept external threads per MIL-S-7792 or AS8879.
 - 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-003	Description	KATO Tanged UNC 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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