

TANGLESS COIL THREAD SPECIFICATIONS (UNIFIED)

ISSUE LEVEL:	07	
ISSUE DATE:	16-Feb-2012	
COMPILED	N WILSON	<i>N. Wilson</i>
CHECKED	I MILLS	<i>I. Mills</i>
AUTHORISED	C J GREEN	<i>C. J. Green</i>
APPROVED	R NEWHAM	<i>R. Newham</i>

RECORD OF CHANGES

PART NO. / DESC.	CHANGE	ISS.	DATE	AUTH.
All part no's	C dimension changed in accordance with			
	revision of NAS 1130			
	A' dimension changed in accordance with			
	NAS 1130	2	May-00	GPC
All part no's	Pitch tolerances added	3	Jul-03	GPC
All part no's	A & C dimensions amended to reflect internal	4	Sep-06	GPC
	working tolerance. Min C reduction added.			

	Notch dimensions removed			
3/8 - 16	Torque specification added	5	Jan-08	GPC
5/16 - 18	Torque specification added	6	Apr-09	IJM
5/16 - 24	Torque specification added	6	Apr-09	IJM
3/8 - 24	Torque specification added	6	Apr-09	IJM
All part no's	OZ - in Added to the specification	6	Apr-09	IJM
2-56 UNC	C dimension rounded up to 2.72 instead of 2.7178	7	16-Feb-12	NW
	as stated in NAS1130			
6-32 UNC	C dimension rounded up to 4.42 instead of 4.4196	7	16-Feb-12	NW
	as stated in NAS1130			
All locking part no's	All lock coil positions dimensions the same as NAS1130	7	16-Feb-12	NW
5/16-18 5/16-24	2.5 and 3 D locking dimensions added	7	16-Feb-12	NW
3/8-16 3/8-24	2.5 and 3 D locking dimensions added	7	16-Feb-12	NW

1.0 DIA. FREE RUNNING

PART NO.	THREAD	NOMINAL	A		B	C	MIN C RED'N	PITCH	
	SIZE	LENGTH	Min	Max	± 0.25	Min		Min	Max
2TNC-02C-0086	2 - 56	2.18	2.80	2.83	3.00	2.72	0.03	0.45	0.52
2TNC-04C-0112	4 - 40	2.84	3.66	3.71	2.75	3.59	0.03	0.63	0.71
2TNC-06C-0138	6 - 32	3.50	4.53	4.58	2.75	4.42	0.03	0.79	0.86
2TNC-2C-0164	8 - 32	4.16	5.21	5.28	3.50	5.08	0.03	0.79	0.88
2TNC-3C-0190	10 - 24	4.82	6.20	6.30	2.88	6.02	0.03	1.06	1.18
2TNF-3C-0190	10 - 32	4.82	6.00	6.10	4.13	5.75	0.03	0.79	0.86
2TNC-4C-0250	1/4 - 20	6.35	7.90	8.05	3.38	7.80	0.03	1.20	1.42
2TNF-4C-0250	1/4 - 28	6.35	7.78	7.96	5.00	7.40	0.03	0.91	0.99
2TNC-5C-0312	5/16 - 18	7.92	9.66	9.80	4.00	9.58	0.03	1.42	1.62
2TNF-5C-0312	5/16 - 24	7.92	9.66	9.80	5.50	9.50	0.03	1.06	1.21
2TNC-6C-0375	3/8 - 16	9.52	11.49	11.61	4.38	11.38	0.03	1.58	1.83
2TNF-6C-0375	3/8 - 24	9.52	11.38	11.51	6.88	11.00	0.03	1.06	1.21

1.5 DIA. FREE RUNNING

PART NO.	THREAD	NOMINAL	A		B	C	MIN C RED'N	PITCH	
	SIZE	LENGTH	Min	Max	± 0.25	Min		Min	Max
2TNC-02C-0129	2 - 56	3.28	2.80	2.83	5.25	2.72	0.03	0.45	0.52
2TNC-04C-0168	4 - 40	4.27	3.66	3.71	4.75	3.59	0.03	0.63	0.71
2TNC-06C-0207	6 - 32	5.25	4.53	4.58	4.75	4.42	0.03	0.79	0.86
2TNC-2C-0246	8 - 32	6.25	5.21	5.28	6.00	5.08	0.03	0.79	0.88
2TNC-3C-0285	10 - 24	7.24	6.20	6.30	5.00	6.02	0.03	1.06	1.18
2TNF-3C-0285	10 - 32	7.24	6.00	6.10	6.88	5.75	0.03	0.79	0.86
2TNC-4C-0375	1/4 - 20	9.53	7.90	8.05	5.75	7.80	0.03	1.20	1.42
2TNF-4C-0375	1/4 - 28	9.53	7.78	7.96	8.25	7.40	0.03	0.91	0.99
2TNC-5C-0469	5/16 - 18	11.91	9.66	9.80	6.63	9.58	0.03	1.42	1.62
2TNF-5C-0469	5/16 - 24	11.91	9.66	9.80	8.88	9.50	0.03	1.06	1.21
2TNC-6C-0562	3/8 - 16	14.27	11.49	11.61	7.25	11.38	0.03	1.58	1.83
2TNF-6C-0562	3/8 - 24	14.27	11.38	11.51	11.00	11.00	0.03	1.06	1.21

2.0 DIA. FREE RUNNING

PART NO.	THREAD	NOMINAL	A		B	C	MIN C RED'N	PITCH	
	SIZE	LENGTH	Min	Max	± 0.25	Min		Min	Max
2TNC-02C-0172	2 - 56	3.28	2.80	2.83	7.38	2.72	0.03	0.45	0.52
2TNC-04C-0224	4 - 40	4.27	3.66	3.71	6.75	3.59	0.03	0.63	0.71
2TNC-06C-0276	6 - 32	5.25	4.53	4.58	6.88	4.42	0.03	0.79	0.86
2TNC-2C-0328	8 - 32	6.25	5.21	5.28	8.38	5.08	0.03	0.79	0.88
2TNC-3C-0380	10 - 24	7.24	6.20	6.30	7.13	6.02	0.03	1.06	1.18
2TNF-3C-0380	10 - 32	7.24	6.00	6.10	9.50	5.75	0.03	0.79	0.86
2TNC-4C-0500	1/4 - 20	9.53	7.90	8.05	8.00	7.80	0.03	1.20	1.42
2TNF-4C-0500	1/4 - 28	9.53	7.78	7.96	11.38	7.40	0.03	0.91	0.99
2TNC-5C-0625	5/16 - 18	15.87	9.66	9.80	9.25	9.58	0.03	1.42	1.62
2TNF-5C-0625	5/16 - 24	15.87	9.66	9.80	12.25	9.50	0.03	1.06	1.21
2TNC-6C-0750	3/8 - 16	19.05	11.49	11.61	10.00	11.38	0.03	1.58	1.83
2TNF-6C-0750	3/8 - 24	19.05	11.38	11.51	15.00	11.00	0.03	1.06	1.21

2.5 DIA. FREE RUNNING

PART NO.	THREAD	NOMINAL	A		B	C	MIN C RED'N	PITCH	
	SIZE	LENGTH	Min	Max	± 0.25	Min		Min	Max
2TNC-02C-0215	2 - 56	5.46	2.80	2.83	9.63	2.72	0.03	0.45	0.52
2TNC-04C-0280	4 - 40	7.12	3.66	3.71	8.88	3.59	0.03	0.63	0.71
2TNC-06C-0345	6 - 32	8.77	4.53	4.58	8.88	4.42	0.03	0.79	0.86
2TNC-2C-0410	8 - 32	10.42	5.21	5.28	10.75	5.08	0.03	0.79	0.88
2TNC-3C-0475	10 - 24	12.07	6.20	6.30	9.25	6.02	0.03	1.06	1.18
2TNF-3C-0475	10 - 32	12.07	6.00	6.10	12.00	5.75	0.03	0.79	0.86
2TNC-4C-0625	1/4 - 20	15.88	7.90	8.05	10.38	7.80	0.03	1.20	1.42
2TNF-4C-0625	1/4 - 28	15.88	7.78	7.96	14.50	7.40	0.03	0.91	0.99
2TNC-5C-0625	5/16 - 18	19.84	9.66	9.80	11.88	9.58	0.03	1.42	1.62
2TNF-5C-0625	5/16 - 24	19.84	9.66	9.80	15.63	9.50	0.03	1.06	1.21
2TNC-6C-0750	3/8 - 16	23.83	11.49	11.61	12.88	11.38	0.03	1.58	1.83
2TNF-6C-0750	3/8 - 24	23.83	11.38	11.51	19.13	11.00	0.03	1.06	1.21

3.0 DIA. FREE RUNNING

PART NO.	THREAD	NOMINAL	A		B	C	MIN C RED'N	PITCH	
	SIZE	LENGTH	Min	Max	± 0.25	Min		Min	Max
2TNC-02C-0258	2 - 56	6.56	2.80	2.83	11.88	2.72	0.03	0.45	0.52
2TNC-04C-0336	4 - 40	8.54	3.66	3.71	10.88	3.59	0.03	0.63	0.71
2TNC-06C-0414	6 - 32	10.52	4.53	4.58	10.75	4.42	0.03	0.79	0.86
2TNC-2C-0492	8 - 32	12.50	5.21	5.28	13.25	5.08	0.03	0.79	0.88
2TNC-3C-0570	10 - 24	14.48	6.20	6.30	11.38	6.02	0.03	1.06	1.18
2TNF-3C-0570	10 - 32	14.48	6.00	6.10	14.88	5.75	0.03	0.79	0.86
2TNC-4C-0750	1/4 - 20	19.05	7.90	8.05	12.75	7.80	0.03	1.20	1.42
2TNF-4C-0750	1/4 - 28	19.05	7.78	7.96	17.63	7.40	0.03	0.91	0.99
2TNC-5C-0625	5/16 - 18	23.83	9.66	9.80	14.63	9.58	0.03	1.42	1.62
2TNF-5C-0625	5/16 - 24	23.83	9.66	9.80	19.00	9.50	0.03	1.06	1.21
2TNC-6C-0750	3/8 - 16	28.58	11.49	11.61	15.75	11.38	0.03	1.58	1.83
2TNF-6C-0750	3/8 - 24	28.58	11.38	11.51	23.13	11.00	0.03	1.06	1.21

1.0 DIA. LOCKING

PART NO.	THREAD SIZE	NOMINAL LENGTH	A		B	C	MIN C RED'N	PITCH		K	L	M
			Min	Max	± 0.25	Min		Min	Max			
2TLC-02C-0086	2 - 56	2.18	2.80	2.83	3.00	2.72	0.03	0.45	0.52	4	1	1.500
2TLC-04C-0112	4 - 40	2.84	3.66	3.71	2.75	3.59	0.03	0.63	0.71	4	1	1.375
2TLC-06C-0138	6 - 32	3.50	4.53	4.58	2.75	4.42	0.03	0.79	0.86	4	1	1.375
2TLC-2C-0164	8 - 32	4.16	5.21	5.28	3.50	5.08	0.03	0.79	0.88	4	1	1.750
2TLC-3C-0190	10 - 24	4.82	6.20	6.30	2.88	6.02	0.03	1.06	1.18	4	1	1.4375
2TLF-3C-0190	10 - 32	4.82	6.00	6.10	4.13	5.75	0.03	0.79	0.86	5	1	2.0625
2TLC-4C-0250	1/4 - 20	6.35	7.90	8.05	3.38	7.80	0.03	1.20	1.42	5	1	1.6875
2TLF-4C-0250	1/4 - 28	6.35	7.78	7.96	5.00	7.40	0.03	0.91	0.99	5	1	2.500
2TLC-5C-0312	5/16 - 18	7.92	9.66	9.80	4.00	9.58	0.03	1.42	1.62	5	1	2.000
2TLF-5C-0312	5/16 - 24	7.92	9.66	9.80	5.50	9.50	0.03	1.06	1.21	6	2	2.750
2TLC-6C-0375	3/8 - 16	9.52	11.49	11.61	4.38	11.38	0.03	1.58	1.83	6	1	2.1875
2TLF-6C-0375	3/8 - 24	9.52	11.38	11.51	6.88	11.00	0.03	1.06	1.21	6	2	3.4375

1.5 DIA. LOCKING

PART NO.	THREAD SIZE	NOMINAL LENGTH	A		B	C	MIN C RED'N	PITCH		K	L	M
			Min	Max	± 0.25	Min		Min	Max			
2TLC-02C-0129	2 - 56	3.28	2.80	2.83	5.25	2.72	0.03	0.45	0.52	4	1	2.625
2TLC-04C-0168	4 - 40	4.27	3.66	3.71	4.75	3.59	0.03	0.63	0.71	4	1	2.375
2TLC-06C-0207	6 - 32	5.25	4.53	4.58	4.75	4.42	0.03	0.79	0.86	4	1	2.375
2TLC-2C-0246	8 - 32	6.25	5.21	5.28	6.00	5.08	0.03	0.79	0.88	4	1	3.000
2TLC-3C-0285	10 - 24	7.24	6.20	6.30	5.00	6.02	0.03	1.06	1.18	4	1	2.500
2TLF-3C-0285	10 - 32	7.24	6.00	6.10	6.88	5.75	0.03	0.79	0.86	5	1	3.4375
2TLC-4C-0375	1/4 - 20	9.53	7.90	8.05	5.75	7.80	0.03	1.20	1.42	5	1	2.875
2TLF-4C-0375	1/4 - 28	9.53	7.78	7.96	8.25	7.40	0.03	0.91	0.99	5	1	4.125
2TLC-5C-0469	5/16 - 18	11.91	9.66	9.80	6.63	9.58	0.03	1.42	1.62	5	1	3.3125
2TLF-5C-0469	5/16 - 24	11.91	9.66	9.80	8.88	9.50	0.03	1.06	1.21	6	2	4.4375
2TLC-6C-0562	3/8 - 16	14.27	11.49	11.61	7.25	11.38	0.03	1.58	1.83	6	1	3.625
2TLF-6C-0562	3/8 - 24	14.27	11.38	11.51	11.00	11.00	0.03	1.06	1.21	6	2	5.500

2.0 DIA. LOCKING

PART NO.	THREAD SIZE	NOMINAL LENGTH	A		B	C	MIN C RED'N	PITCH		K	L	M
			Min	Max	± 0.25	Min		Min	Max			
2TLC-02C-0172	2 - 56	3.28	2.80	2.83	7.38	2.72	0.03	0.45	0.52	4	1	3.6875
2TLC-04C-0224	4 - 40	4.27	3.66	3.71	6.75	3.59	0.03	0.63	0.71	4	1	3.375
2TLC-06C-0276	6 - 32	5.25	4.53	4.58	6.88	4.42	0.03	0.79	0.86	4	1	3.4375
2TLC-2C-0328	8 - 32	6.25	5.21	5.28	8.38	5.08	0.03	0.79	0.88	4	1	4.1875
2TLC-3C-0380	10 - 24	7.24	6.20	6.30	7.13	6.02	0.03	1.06	1.18	4	1	3.5625
2TLF-3C-0380	10 - 32	7.24	6.00	6.10	9.50	5.75	0.03	0.79	0.86	5	1	4.750
2TLC-4C-0500	1/4 - 20	9.53	7.90	8.05	8.00	7.80	0.03	1.20	1.42	5	1	4.000
2TLF-4C-0500	1/4 - 28	9.53	7.78	7.96	11.38	7.40	0.03	0.91	0.99	5	1	5.6875
2TLC-5C-0625	5/16 - 18	15.87	9.66	9.80	9.25	9.58	0.03	1.42	1.62	5	1	4.625
2TLF-5C-0625	5/16 - 24	15.87	9.66	9.80	12.25	9.50	0.03	1.06	1.21	6	2	6.125
2TLC-6C-0750	3/8 - 16	19.05	11.49	11.61	10.00	11.38	0.03	1.58	1.83	6	1	5.000
2TLF-6C-0750	3/8 - 24	19.05	11.38	11.51	15.00	11.00	0.03	1.06	1.21	6	2	7.500

2.5 DIA. LOCKING

PART NO.	THREAD SIZE	NOMINAL LENGTH	A		B	C	MIN C RED'N	PITCH		K	L	M
			Min	Max	± 0.25	Min		Min	Max			
2TLC-02C-0215	2 - 56	5.46	2.80	2.83	9.63	2.72	0.03	0.45	0.52	4	1	4.8125
2TLC-04C-0280	4 - 40	7.12	3.66	3.71	8.875	3.59	0.03	0.63	0.71	4	1	4.4375
2TLC-06C-0345	6 - 32	8.77	4.53	4.58	8.875	4.42	0.03	0.79	0.86	4	1	4.4375
2TLC-2C-0410	8 - 32	10.42	5.21	5.28	10.75	5.08	0.03	0.79	0.88	4	1	5.375
2TLC-3C-0475	10 - 24	12.07	6.20	6.30	9.25	6.02	0.03	1.06	1.18	4	1	4.625
2TLF-3C-0475	10 - 32	12.07	6.00	6.10	12.00	5.75	0.03	0.79	0.86	5	1	6.000
2TLC-4C-0625	1/4 - 20	15.88	7.90	8.05	10.38	7.80	0.03	1.20	1.42	5	1	5.1875
2TLF-4C-0625	1/4 - 28	15.88	7.78	7.96	14.50	7.40	0.03	0.91	0.99	5	1	7.250
2TLC-5C-0625	5/16 - 18	19.84	9.66	9.80	11.88	9.58	0.03	1.42	1.62	5	1	5.9375
2TLF-5C-0625	5/16 - 24	19.84	9.66	9.80	15.63	9.50	0.03	1.06	1.21	6	2	7.8125
2TLC-6C-0750	3/8 - 16	23.83	11.49	11.61	12.88	11.38	0.03	1.58	1.83	6	1	6.4375
2TLF-6C-0750	3/8 - 24	23.83	11.38	11.51	19.13	11.00	0.03	1.06	1.21	6	2	9.5625

3.0 DIA. LOCKING

PART NO.	THREAD SIZE	NOMINAL LENGTH	A		B	C	MIN C RED'N	PITCH		K	L	M
			Min	Max	± 0.25	Min		Min	Max			
2TLC-02C-0258	2 - 56	6.56	2.80	2.83	11.875	2.72	0.03	0.45	0.52	4	1	5.9375
2TLC-04C-0336	4 - 40	8.54	3.66	3.71	10.875	3.59	0.03	0.63	0.71	4	1	5.4375
2TLC-06C-0414	6 - 32	10.52	4.53	4.58	10.75	4.42	0.03	0.79	0.86	4	1	5.375
2TLC-2C-0492	8 - 32	12.50	5.21	5.28	13.25	5.08	0.03	0.79	0.88	4	1	6.625
2TLC-3C-0570	10 - 24	14.48	6.20	6.30	11.375	6.02	0.03	1.06	1.18	4	1	5.6875
2TLF-3C-0570	10 - 32	14.48	6.00	6.10	14.875	5.75	0.03	0.79	0.86	5	1	7.4375
2TLC-4C-0750	1/4 - 20	19.05	7.90	8.05	12.75	7.80	0.03	1.20	1.42	5	1	6.375
2TLF-4C-0750	1/4 - 28	19.05	7.78	7.96	17.63	7.40	0.03	0.91	0.99	5	1	8.8125
2TLC-5C-0625	5/16 - 18	23.83	9.66	9.80	14.63	9.58	0.03	1.42	1.62	5	1	7.3125
2TLF-5C-0625	5/16 - 24	23.83	9.66	9.80	19.00	9.50	0.03	1.06	1.21	6	2	9.500
2TLC-6C-0750	3/8 - 16	28.58	11.49	11.61	15.75	11.38	0.03	1.58	1.83	6	1	7.875
2TLF-6C-0750	3/8 - 24	28.58	11.38	11.51	23.13	11.00	0.03	1.06	1.21	6	2	11.5625

LOCKING TORQUE

THREAD SIZE	MAX			MIN		
	Lb - in	ozf - in	N-m	Lb - in	ozf - in	N-m
2 - 56	1.25	20	0.14	0.19	3	0.02128
4 - 40	3.00	48	0.336	0.63	10	0.07056
6 - 32	6.00	96	0.672	1.00	16	0.112
8 - 32	9.00	144	1.008	1.50	24	0.168
10 - 24	13.00	208	1.456	2.00	32	0.224
1/4 - 20	30.00	480	3.36	4.50	72	0.504
5/16 - 18	45.00	720	5.04	13.50	216	1.512
3/8 - 16	60.00	960	6.72	12.00	192	1.344
10 - 32	13.00	208	1.456	2.00	32	0.224
1/4 - 28	30.00	480	3.36	3.50	56	0.392
5/16 - 24	60.00	960	6.72	6.50	104	0.728
3/8 - 24	50.00	608	5.6	9.50	192	1.064