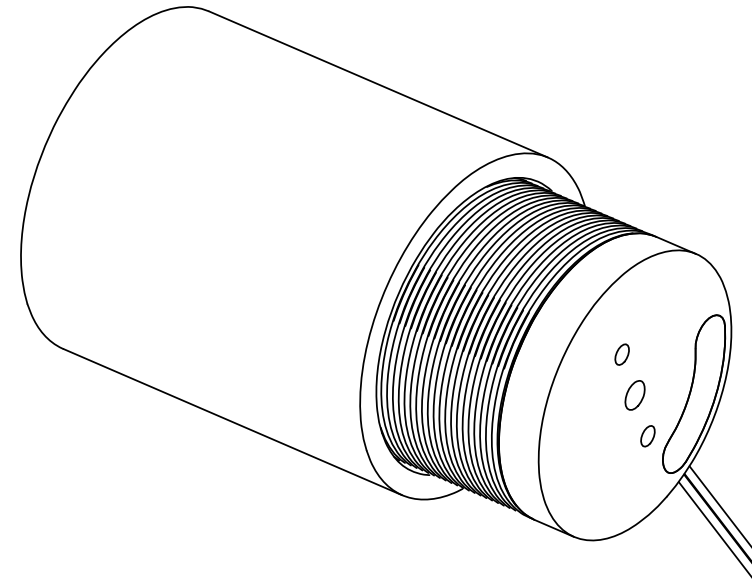
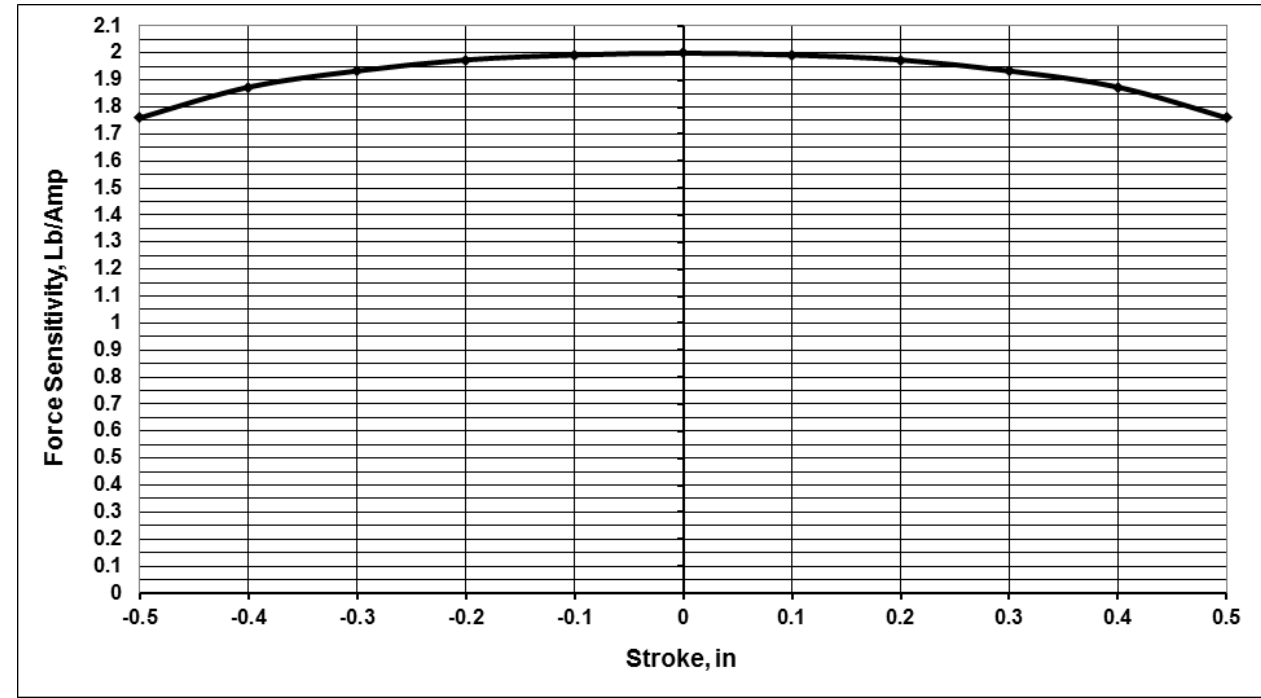


Winding Constants *	Units	Tol	Symbol	Wdg	A
DC Resistance	Ohms	+ 12.5%	R	9.15	
Voltage @ F _{PS}	Volts	Nominal	V _{PS}	45.8	
Current @ F _{PS}	Amps	Nominal	I _{PS}	5	
Current @ F _{CS}	Amps	Nominal	I _{CS}	1.01	
Force Sensitivity @ F _{PS}	N/Amp	+ 10%	K _{FPS}	8.9	
	lb/Amp	+ 10%		2	
Force Sensitivity @ No-Load	N/Amp	+ 10%	K _{FNL}	8.9	
	lb/Amp	+ 10%		2	
Back EMF Constant	V/(m/sec)	+ 10%	K _B	8.9	
	V/(ft/sec)	+ 10%		2.71	
Inductance ****	milli-Henry	+ 15%	L	4.6	

Linear Actuator Parameters *	Units	Symbol	Value
Peak Stall Force**	N	F _{PS}	44.48
	lb		10
Continuos Stall Force ***	N	F _{CS}	8.97
	lb		2.02
Actuator Constant	N/√Watt	K _A	2.94
	lb/√Watt		0.66
Electrical Time Constant	milli-sec	τ _E	0.503
Mechanical Time Constant	milli-sec	τ _M	7.53
Theoretical Acceleration	m/s ²	a _T	682.2
	ft/s ²		2,238.2
Maximum Theoretical Frequency @ Full Stroke and Sinusoidal/Triangular Motion	Hz	f _{max}	34/37.8
Power I ² R @ F _{PS}	Watts	P _{PS}	228.8
Stroke, Maximum	± mm	S _{Amax}	12.7
	± in		0.5
Clearance on Each Side of Coil	mm	D _C	0.38
	in		0.015
Mass, Moving Coil Assembly	g	M _{CA}	65.2
	oz		2.3
Thermal Resistance of Coil in still air	°C/Watt	Θ _{TH}	9.3
Maximum Allowable Coil Winding Temp	°C	T _W	155
Mass, Field Assembly	g	M _{FA}	286.3
	oz		10.1

* AT MID-STROKE POSITION AND @ 25 °C AMBIENT TEMPERATURE.
 ** 10 SECONDS @ 25 °C AMBIENT & 155 °C COIL TEMPERATURE.
 *** @25 °C AMBIENT & 155 °C COIL TEMPERATURE.
 **** MEASURED AT 1000 Hz.

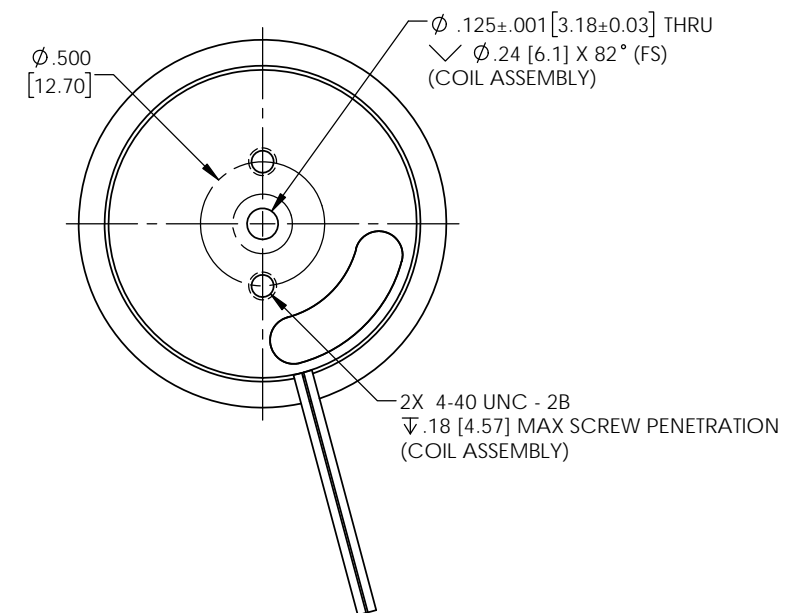
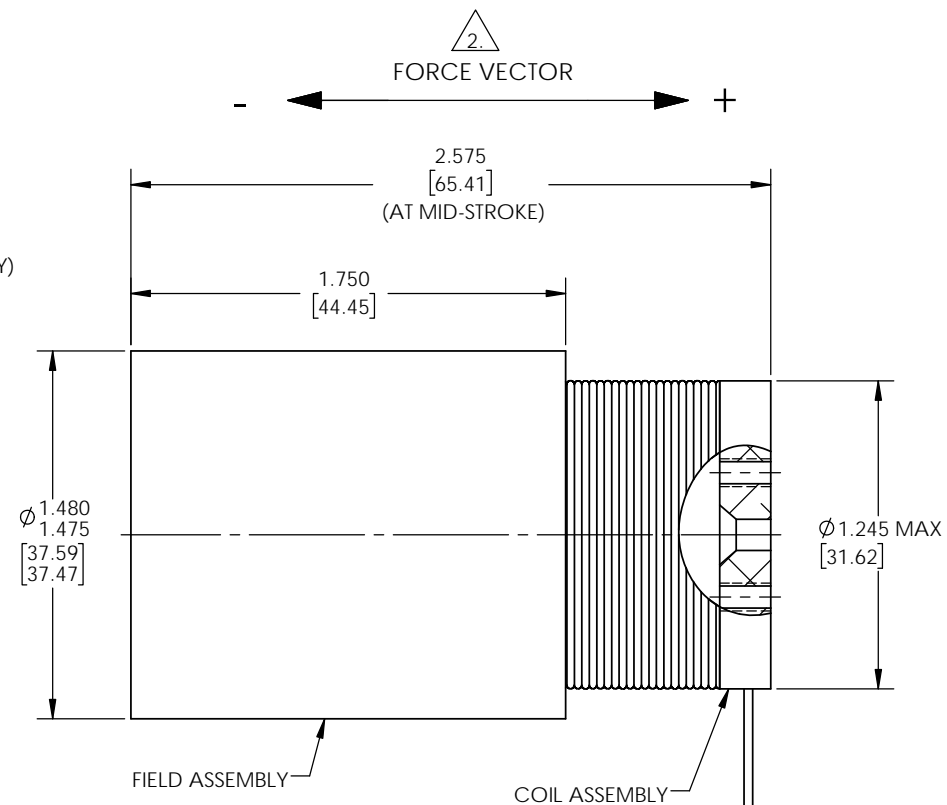
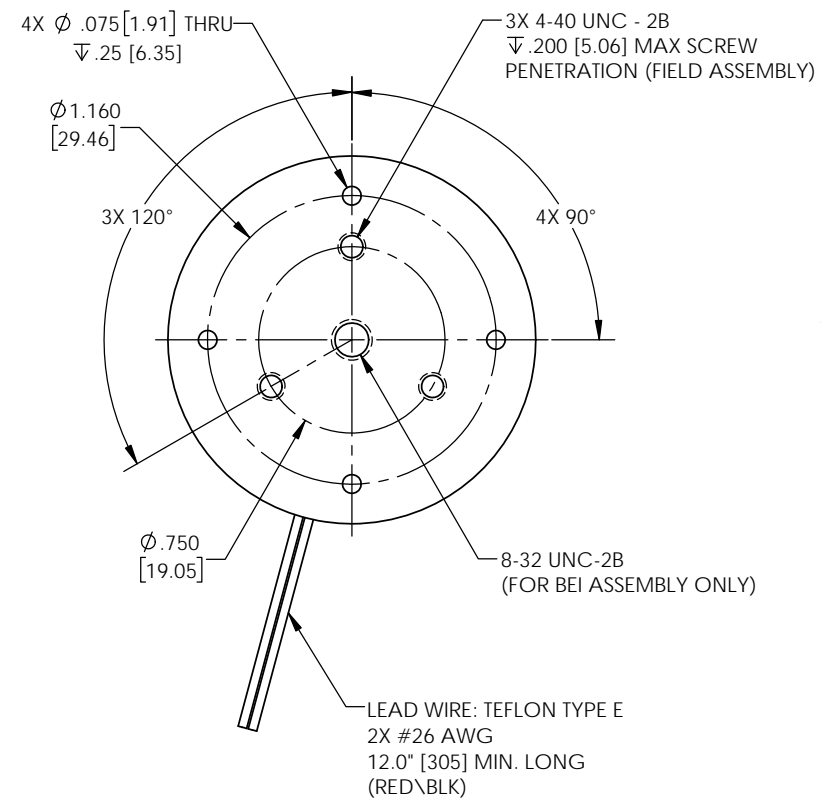
ZONE	REV.	REVISION DESCRIPTION	ECN NO.	DATE
	F			



SOLIDWORKS

FOR REFERENCE ONLY, CHECK LATEST REVISION BEFORE USE.		529 PLEASANT STREET P.O. BOX 2964 ATTLEBORO, MA 02703	
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DATE		LINEAR ACTUATOR	
ENGINEER	INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5-2009. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES	SIZE	DWG NO.
DATE		C	LA15-26-000A
APPROVED	DECIMALS ANGLES X.X ± 0.03 X.X° ± 0°30' X.XX ± 0.01 X.XXX ± 0.005	REV.	F
DATE	DO NOT SCALE DRAWING	THIRD ANGLE PROJECTION	SCALE 2:1
APPROVED			SHEET 1 OF 2
DATE			





NOTES: UNLESS OTHERWISE SPECIFIED

1. INCH DRAWING. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY.

2. A POSITIVE (+) VOLTAGE APPLIED TO THE RED LEAD WIRE WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE POSITIVE (+) DIRECTION.

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SIZE	DWG NO.	REV.
C	LA15-26-000A	F
SCALE	SOLIDWORKS	SHEET 2 OF 2
2:1		

