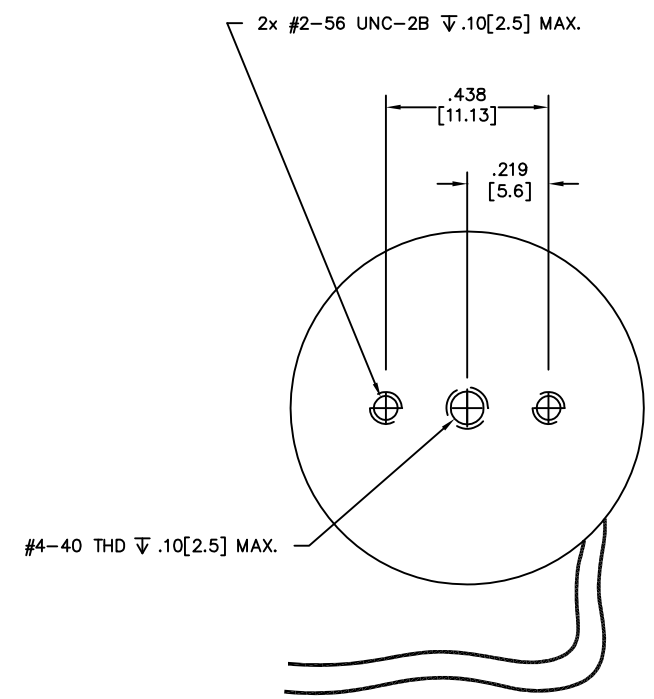
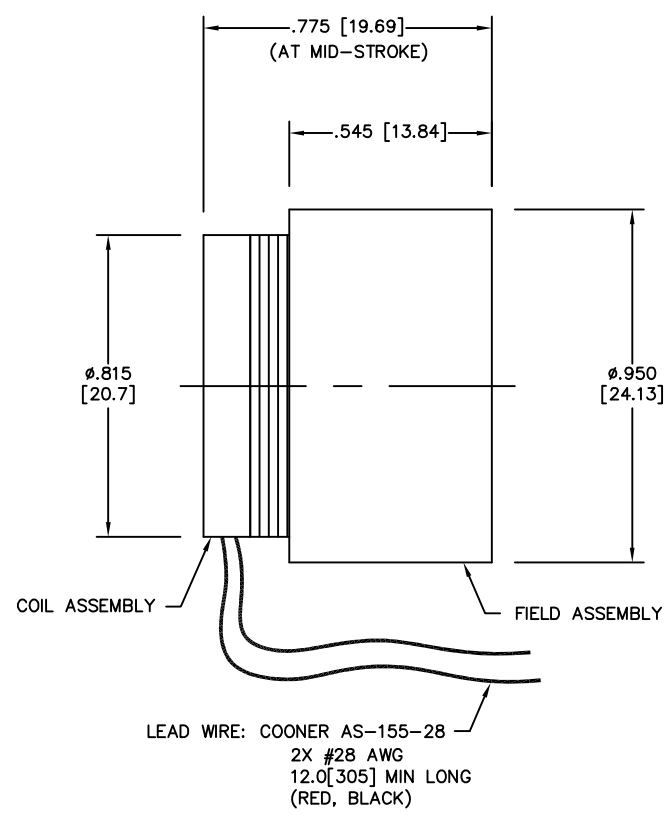
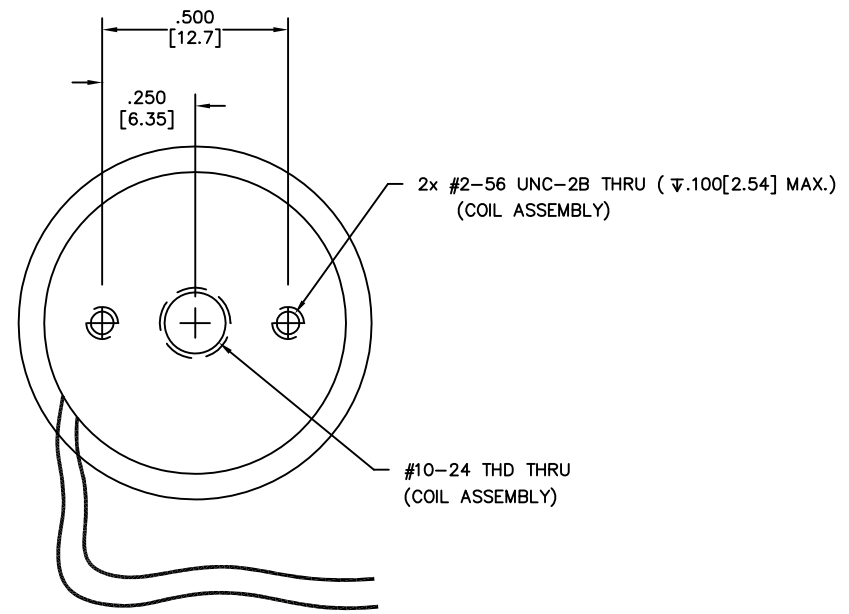
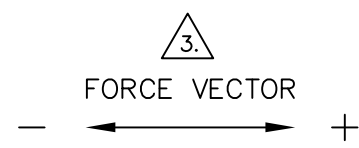
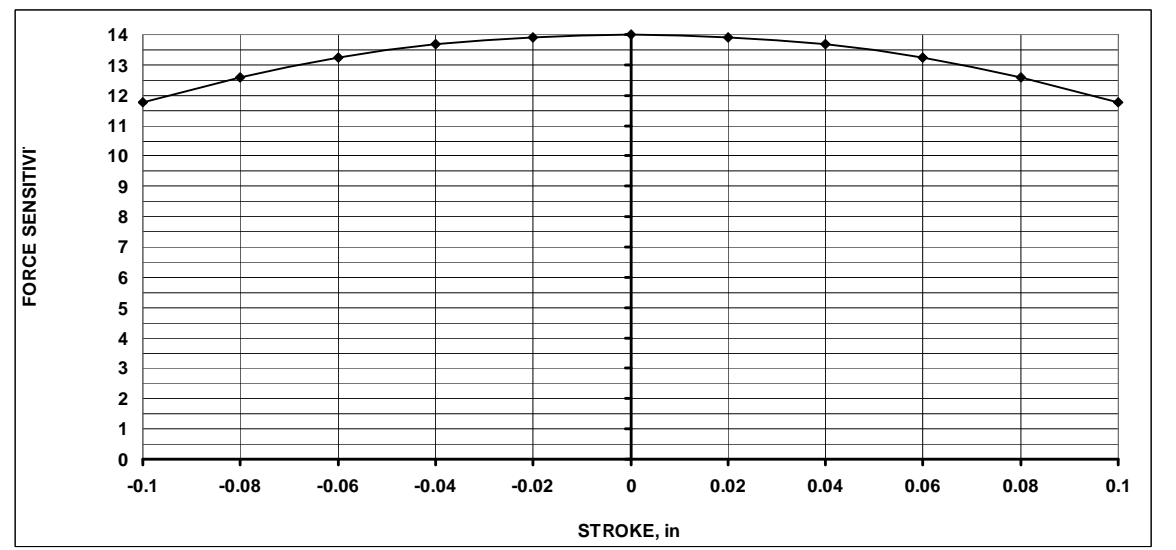


WINDING CONSTANTS *	UNITS	TOL	SYMBOL	WDG A
DC RESISTANCE	OHMS	±12.5%	R	9.9
VOLTAGE @ F _P	VOLTS	NOMINAL	V _P	17.0
CURRENT @ F _P	AMPERES	NOMINAL	I _P	1.71
FORCE SENSITIVITY	OZ/AMP	±10%	K _F	14.0
	N/AMP	±10%		3.89
BACK EMF CONSTANT	V/FT/SEC	±10%	K _B	1.19
	V/M/SEC	±10%		3.89
INDUCTANCE ****	MILLI-HENRY	±30%	L	1.18

LTR	ECO NO.	DESCRIPTION	DRN	APP'D	DATE
F	080312	INDUCTANCE NOW 1.18 MILLI-HENRY	SLM	BD	07/31/08
G	110062	ADD FORCE GRAPH, UPDATE PARAMETERS	SLM	MG	07/19/11

ACTUATOR PARAMETERS *	UNITS	SYMBOL	VALUE
PEAK FORCE **	OZ	F _P	24.0
	N		6.67
CONTINUOUS STALL FORCE ***	OZ	F _{CS}	10.5
	N		2.93
ACTUATOR CONSTANT	OZ/√WATT	K _A	4.45
	N/√WATT		1.24
ELECTRICAL TIME CONSTANT	MICRO-SEC	τ _E	119.0
MECHANICAL TIME CONSTANT	MILLI-SEC	τ _M	4.58
THEORETICAL ACCELERATION	FT/SEC ²	α _T	3126.1
	M/SEC ²		952.9
MAX THEORETICAL FREQUENCY @ FULL STROKE & SINUSOIDAL/TRIANGULAR MOTION	Hz	f _{max}	97.5/108.3
POWER I ² R @ F _P	WATTS	P _P	29.1
STROKE	± INCHES		0.100
	± MM		2.54
CLEARANCE ON EACH SIDE OF COIL	IN		0.035
	MM		0.89
THERMAL RESISTANCE OF COIL	°C/WATT	θ _{TH}	15.5
MAX. ALLOWABLE COIL TEMP.	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	OZ	WT _C	0.247
	G		7.0
WEIGHT OF FIELD ASSEMBLY	OZ	WT _F	1.16
	G		32.9

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



3. A POSITIVE (+) VOLTAGE APPLIED TO THE RED LEAD WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE POSITIVE (+) DIRECTION.
2. DIMENSION IN BRACKETS ARE MILLIMETERS [MM] AND ARE FOR REFERENCE ONLY.
1. INTERPRET DIMENSIONS & TOLERANCES PER ANSI Y14.5M-1994.

NOTES: UNLESS OTHERWISE SPECIFIED

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UNLESS OTHERWISE SPECIFIED: -ALL DIMENSIONS ARE IN INCHES -BREAK SHARP EDGES .015 MAX. -SURFACE ROUGHNESS √125 -DIMENSIONS APPLY AFTER FINISH -MAX FILLET R .010		BEI KIMCO MAGNETICS DIVISION VISTA, CA 92081	
DRAWN N. FRENCH	DATE 12/17/98	TITLE LINEAR ACTUATOR	
MECH CHECK GUERRERO	APPD A. MORCOS	DATE 06/29/05	FILE NO. L:\TOP LEVEL\LA10-08-000A
TOLERANCES: DECIMALS .X ± .03 .XX ± .01 .XXX ± .005 DO NOT SCALE DRAWING	SIZE D	FSCM NO. 55789	DWG NO. LA10-08-000A
SCALE 4/1		SHEET 1 OF 1	REV G