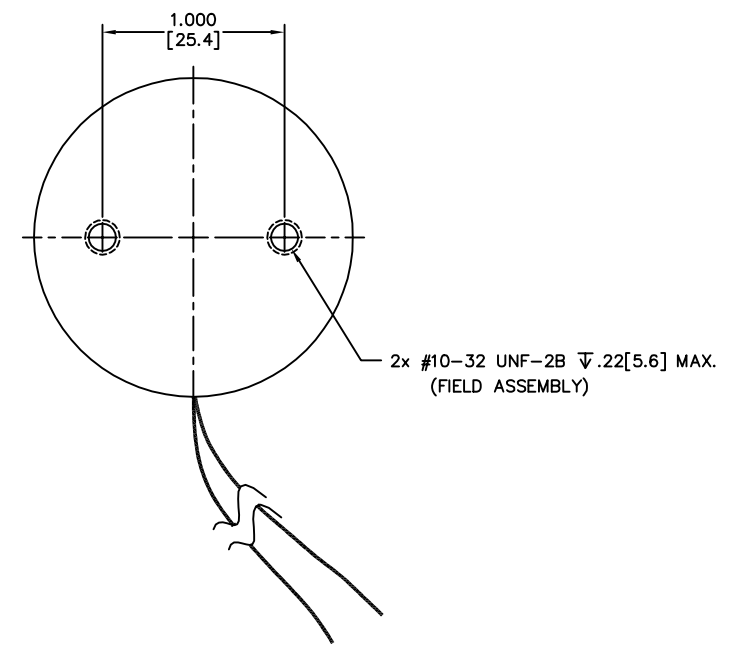
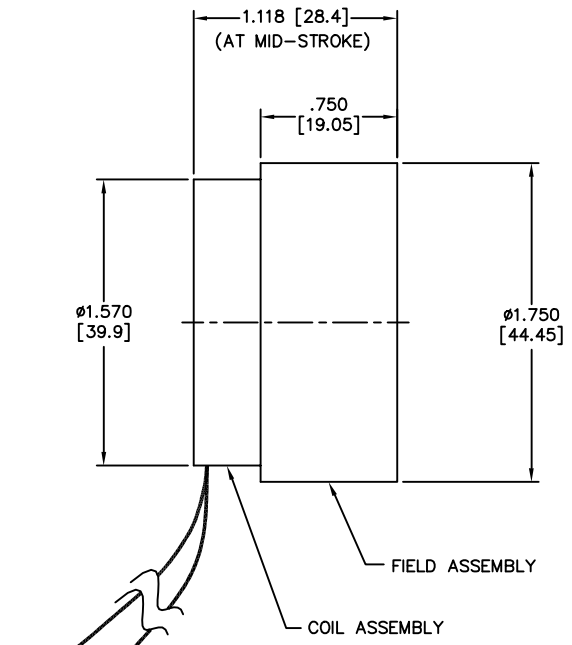
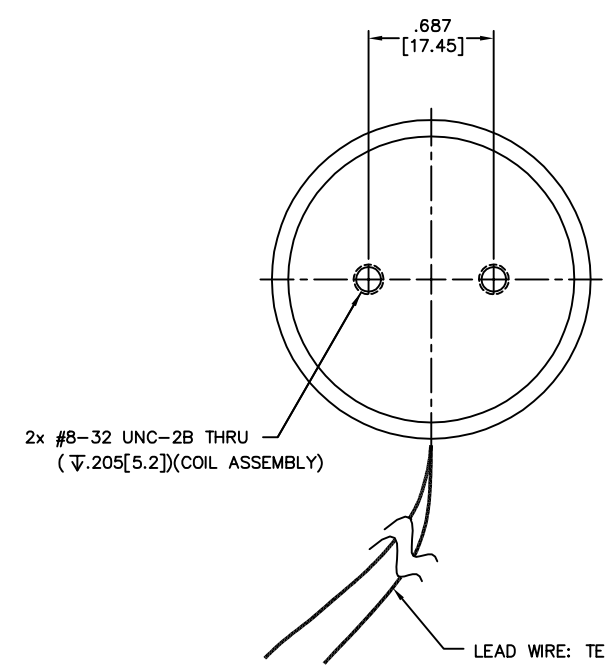
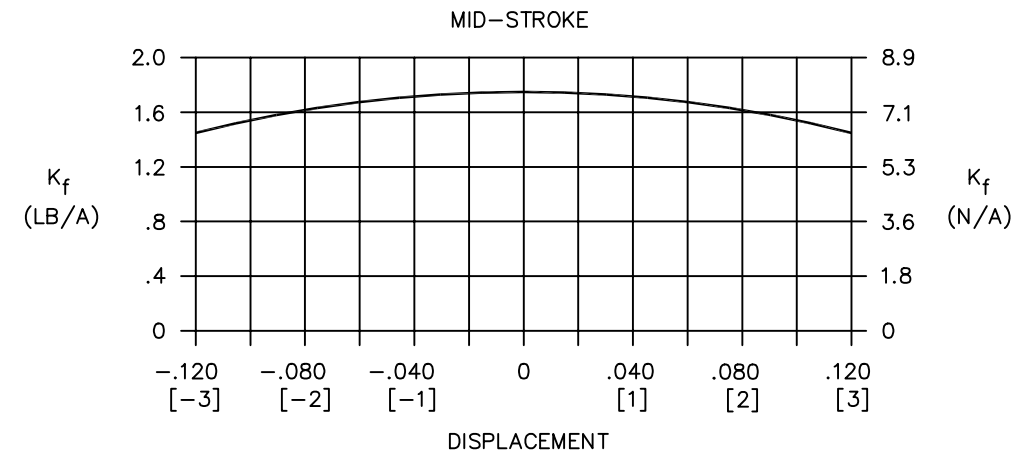
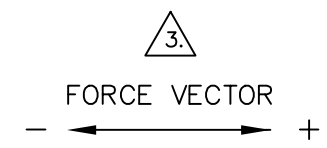


WINDING CONSTANTS	UNITS	TOL	SYMBOL	WDG A
DC RESISTANCE	OHMS	±12.5%	R	2.6
VOLTAGE \odot F_p	VOLTS	NOMINAL	V_p	14.9
CURRENT \odot F_p	AMPERES	NOMINAL	I_p	5.71
FORCE SENSITIVITY	LB/AMP	±10%	K_f	1.75
	N/AMP	±10%		7.78
BACK EMF CONSTANT	V/FT/SEC	±10%	K_B	2.37
	V/M/SEC	±10%		7.8
INDUCTANCE	MILLI-HENRY	±30%	L	1.00

ACTUATOR PARAMETERS	UNITS	SYMBOL	VALUE
PEAK FORCE *	LB	F_p	10
	N		44.5
CONTINUOUS STALL FORCE **	LB	F_{CS}	3.4
	N		15.1
ACTUATOR CONSTANT	LB/√WATT	K_A	1.09
	N/√WATT		4.8
ELECTRICAL TIME CONSTANT	MILLI-SEC	τ_E	385
MECHANICAL TIME CONSTANT	MILLI-SEC	τ_M	1.9
POWER $I^2R \odot F_p$	WATTS	P_p	84.9
STROKE	± INCHES		0.120
	± MM		3.0
CLEARANCE ON EACH SIDE OF COIL	IN		0.015
	MM		0.38
THERMAL RESISTANCE OF COIL	°C/WATT	θ_{TH}	8.7
MAX. ALLOWABLE COIL TEMP.	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	OZ	WT_c	1.54
	G		43.7
WEIGHT OF FIELD ASSEMBLY	OZ	WT_f	6.2
	G		175.8

* 10 SECONDS AT 25°C AMBIENT, 155°C COIL TEMP
 ** 25°C AMBIENT & 155°C WINDING TEMPERATURE



LEAD WIRE: TEFLON TYPE E INS.
 #22 AWG
 35.0 ± 1.0 [889 ± 25.4] LONG
 2 PL.
 (RED: START)
 (BLACK: FINISH)

3. A POSITIVE (+) VOLTAGE APPLIED TO THE RED (START) 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-1982.

NOTES: UNLESS OTHERWISE SPECIFIED

THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED: -ALL DIMENSIONS ARE IN INCHES -DIMENSIONS ARE AFTER FINISH DO NOT SCALE DRAWING	BEI KIMCO MAGNETICS DIVISION SAN MARCOS, CA 92069	
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND IS THE PROPERTY OF BEI/KIMCO MAGNETICS DIVISION. IT MAY NOT BE REPRODUCED WITHOUT BEI/KIMCO MAGNETICS DIVISION WRITTEN PERMISSION OR USED FOR OTHER THAN AUTHORIZED PURPOSES.	TOLERANCES: DECIMALS .X ± 0.03 .XX ± 0.01 .XXX ± 0.005	APPROVALS DRAWN R. ELLIOTT CHECKED APPROVED M. GODKIN	DATE 7/28/01 7/30/01
	TITLE LINEAR ACTUATOR		SIZE D FSCM NO. 55789 DRAWING NO. LA18-12-000A REV B
SCALE 2/1		SHEET 1 OF 1	