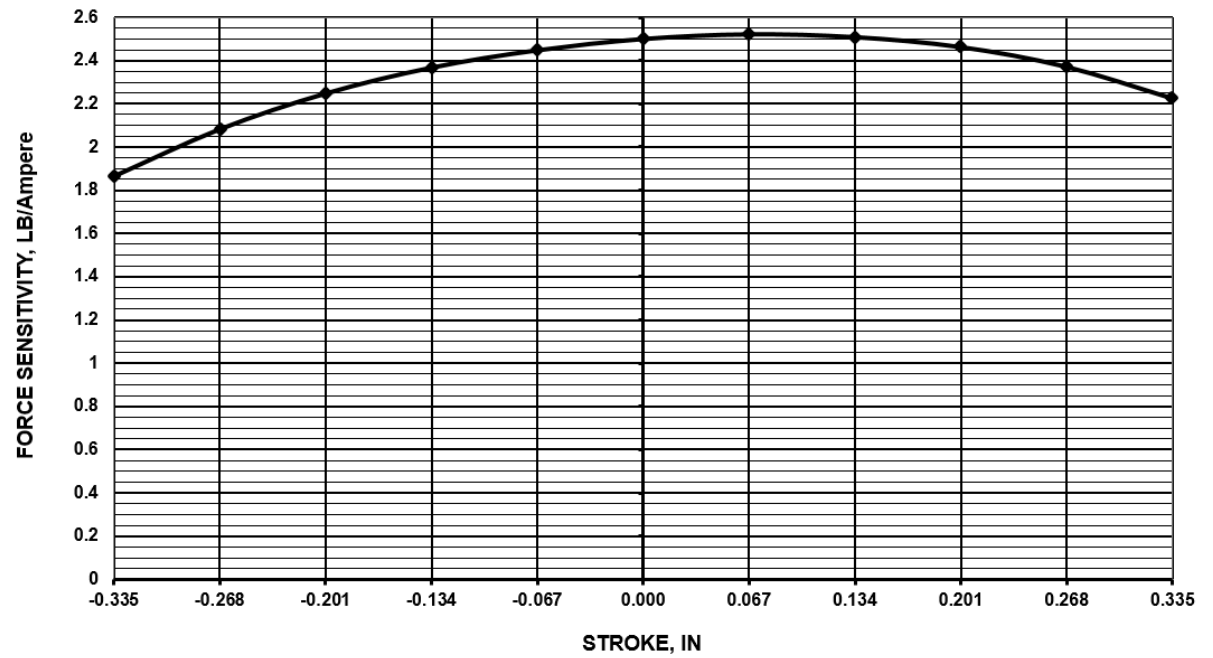
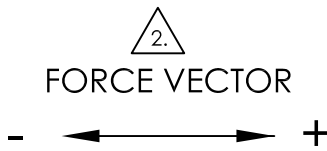
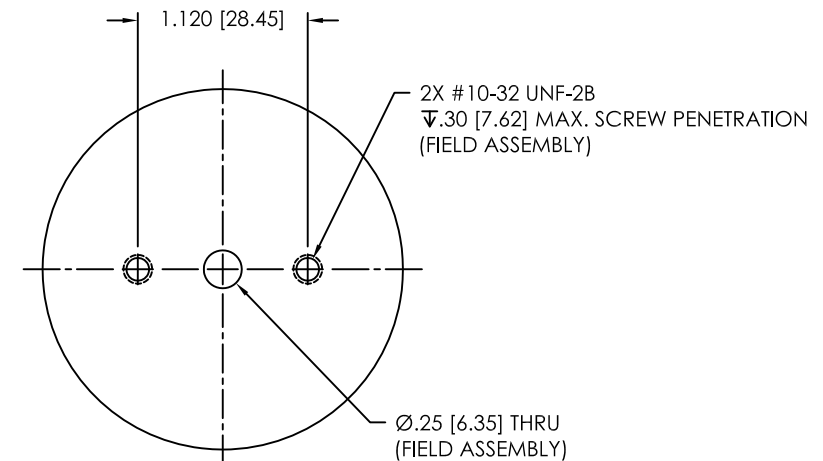
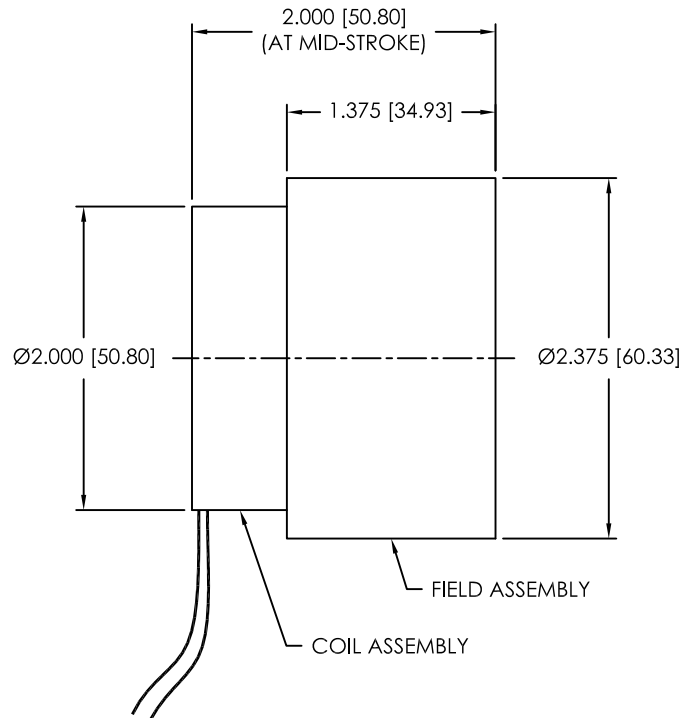
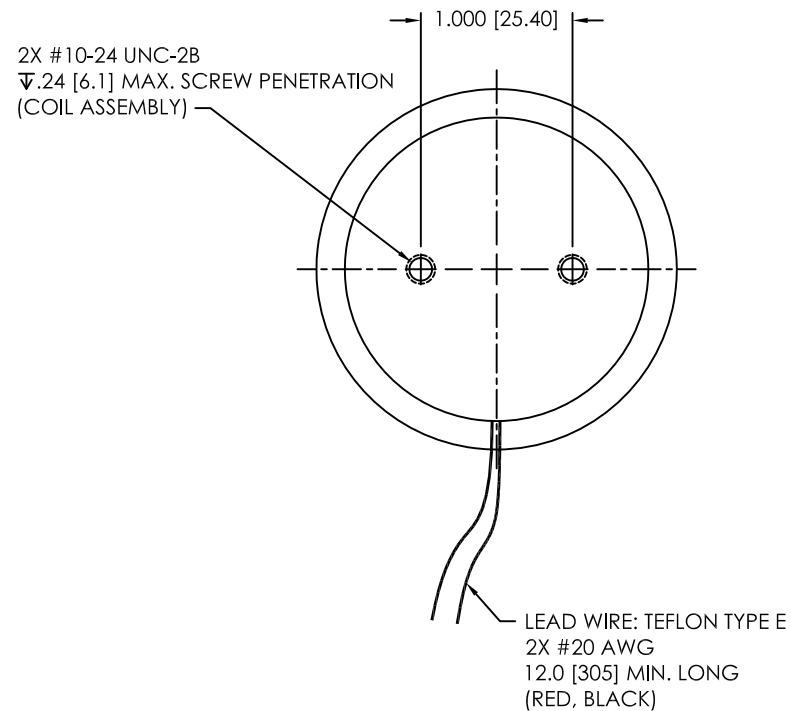


WINDING CONSTANTS *	UNITS	TOL	SYMBOL	WDG A
DC RESISTANCE	OHMS	±12.5%	R	2.2
VOLTAGE @ F _P	VOLTS	NOMINAL	V _P	22.0
CURRENT @ F _P	AMPERES	NOMINAL	I _P	10.0
FORCE SENSITIVITY	LB/AMP	±10%	K _F	2.5
	N/AMP	±10%		11.12
BACK EMF CONSTANT	V/FT/SEC	±10%	K _B	3.4
	V/M/SEC	±10%		11.15
INDUCTANCE ****	MILLI-HENRY	±15%	L	2.05

ACTUATOR PARAMETERS *	UNITS	SYMBOL	VALUE
PEAK FORCE **	LB	F _P	25
	N		111.21
CONTINUOUS STALL FORCE ***	LB	F _{CS}	5.9
	N		26.3
ACTUATOR CONSTANT	LB/√WATT	K _A	1.69
	N/√WATT		7.52
ELECTRICAL TIME CONSTANT	MICRO-SEC	τ _E	932
MECHANICAL TIME CONSTANT	MILLI-SEC	τ _M	2.9
POWER I ² R @ F _P	WATTS	P _P	220
STROKE	± INCHES		0.325
	± MM		8.26
CLEARANCE ON EACH SIDE OF COIL	IN		0.015
	MM		0.38
THERMAL RESISTANCE OF COIL	°C/WATT	Θ _{TH}	7.1
MAX. ALLOWABLE COIL TEMP.	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	LB	WT _C	0.365
	kg		0.17
WEIGHT OF FIELD ASSEMBLY	LB	WT _F	1.25
	kg		0.57

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



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.

FOR REFERENCE ONLY, CHECK LATEST REVISION BEFORE USE.

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ENGINEER		DATE		
APPROVED		DATE		
DATE		APPROVED		
DATE		DATE		

529 PLEASANT STREET
 P.O. BOX 2964
 ATTLEBORO, MA 02703

		TITLE
LINEAR ACTUATOR		REV.
SIZE	DWG NO.	F
C	LA24-20-000A	
SCALE: NONE	SHEET: 1 OF 1	

