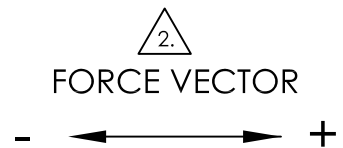
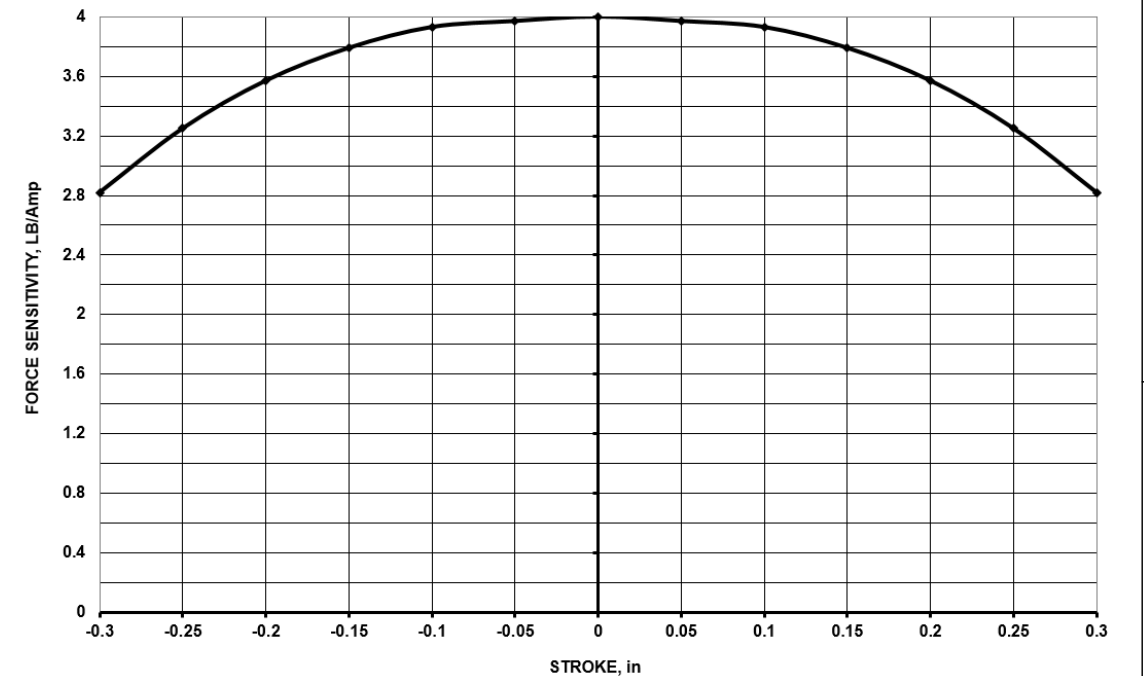
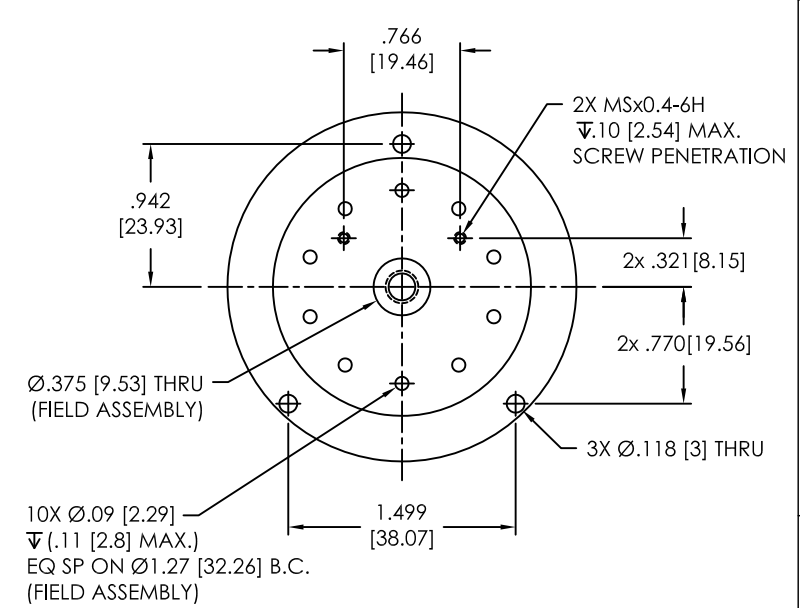
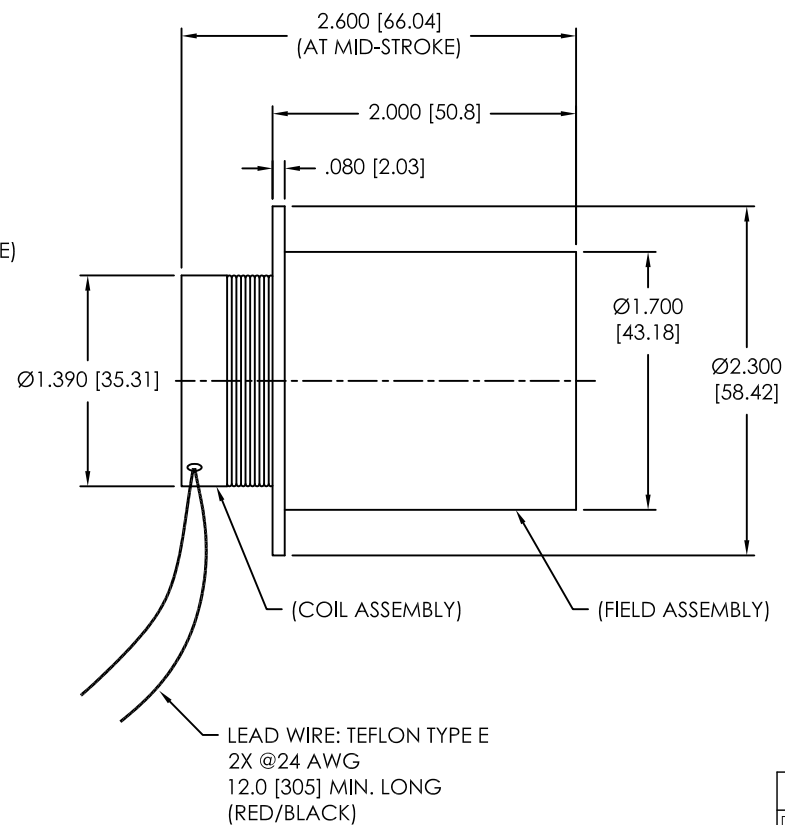
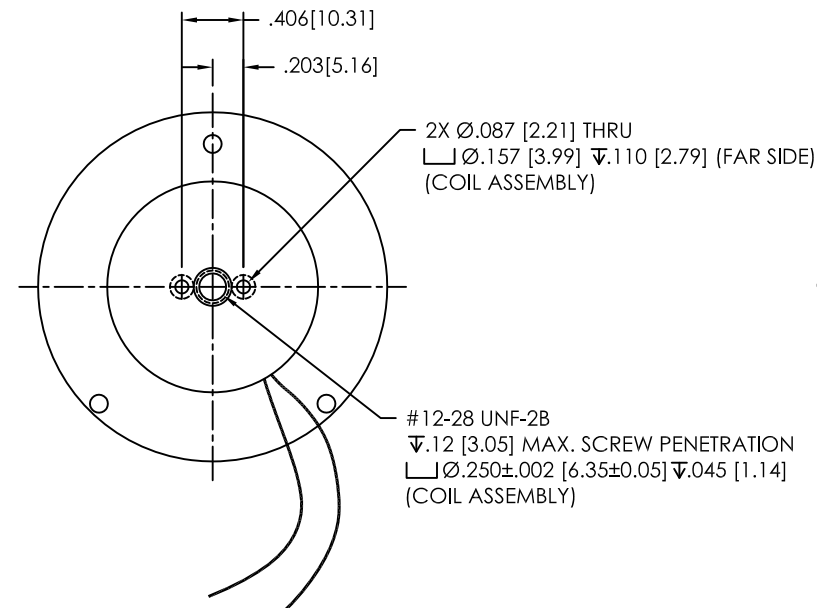


WINDING CONSTANTS *	UNITS	TOL	SYMBOL	WDG A
DC RESISTANCE	OHMS	±12.5%	R	6.7
VOLTAGE @ F _p	VOLTS	NOMINAL	V _p	26.8
CURRENT @ F _p	AMPERES	NOMINAL	I _p	4.0
FORCE SENSITIVITY	LB/AMP	±10%	K _F	4.0
	N/AMP	±10%		17.8
BACK EMF CONSTANT	V/FT/SEC	±10%	K _B	5.42
	V/M/SEC	±10%		17.8
INDUCTANCE ****	MILLI-HENRY	±15%	L	3.1

ACTUATOR PARAMETERS *	UNITS	SYMBOL	VALUE
PEAK FORCE **	LB	F _p	16.0
	N		71.2
CONTINUOUS STALL FORCE ***	LB	F _{CS}	6.4
	N		28.5
ACTUATOR CONSTANT	LB/√WATT	K _A	1.55
	N/√WATT		6.9
ELECTRICAL TIME CONSTANT	MICRO-SEC	τ _E	0.46
MECHANICAL TIME CONSTANT	MILLI-SEC	τ _M	1.7
POWER I ² R @ F _p	WATTS	P _p	107.2
STROKE	± INCHES		0.300
	± MM		7.6
CLEARANCE ON EACH SIDE OF COIL	IN		0.015
	MM		0.38
THERMAL RESISTANCE OF COIL	°C/WATT	Θ _{TH}	5.0
MAX. ALLOWABLE COIL TEMP.	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	oz	WT _C	2.92
	g		82.8
WEIGHT OF FIELD ASSEMBLY	oz	WT _F	14.6
	g		413.9

* 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 BLACK LEAD WIRE WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE POSITIVE (+) DIRECTION.

AUTOCAD

FOR REFERENCE ONLY. CHECK LATEST REVISION BEFORE USE.

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DATE		TITLE LINEAR ACTUATOR		
ENGINEER		SIZE	DWG NO.	REV.
DATE		C	LA17-28-000A	G
APPROVED		SCALE: NONE		SHEET: 1 OF 1
DATE				

DO NOT SCALE DRAWING THIRD ANGLE PROJECTION

