



## C-FRAME SOLENOID

Two position linear solenoid with C-frame construction.

### Features

- Economical construction
- AC solenoids and DC solenoids available
- Encapsulated coils on most models
- UL approval on many models

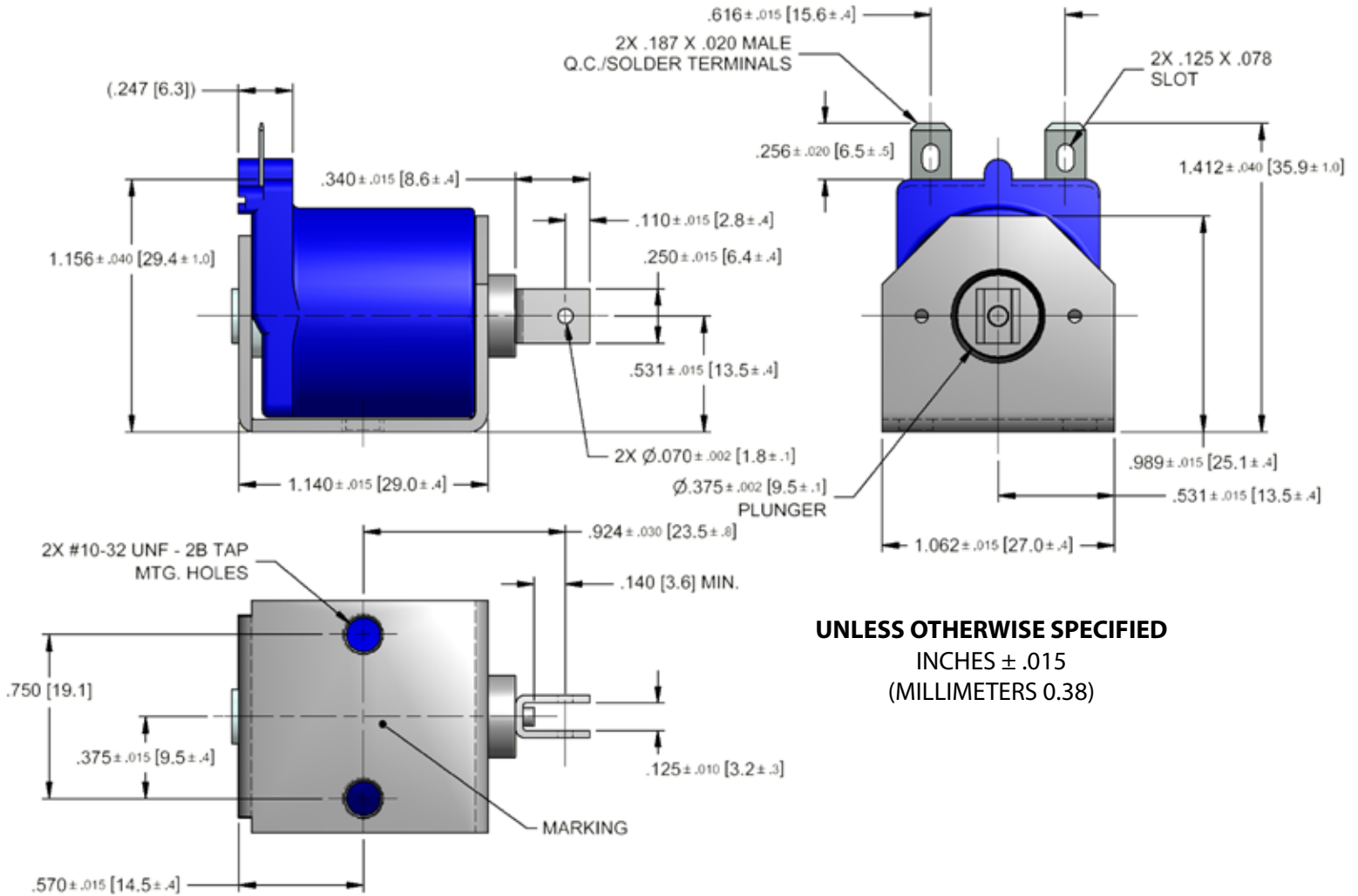


Electrical Specifications	
Coil Voltages	6, 12, 24, 120, 240 VAC   6,12, 24, 110 VDC
Coil Power	7.8 VA Continuous, 21 VA Intermittent, 78 VA Pulse 5 Watts Continuous, 11.5 Watts Intermittent, 50 Watts Pulse
Coil Termination	0.187" [4.7] quick connect terminals (standard) Wire leads optional with tape wrapped coil
Duty Cycle	Continuous, intermittent and pulse (see standard part numbers on page 4)
Coil Treatment	Encapsulated (tape wrapped optional)
Insulation Class	Class A Rating - 105°C (221°F) Max.
Dielectric Strength	30 Volts and Under: 500 VRMS Over 30 Volts: 1000 VRMS plus 2X rated voltage for 1 minute
Mechanical Specifications	
Size	1.140" [29.0] (L) 1.062" [27.0] (W) 1.025" [26.0] (H)
Forces	See page 3 for force curves
Plunger Diameter	Ø 0.375" [9.5]
Plunger Guide Material	Plastic
Mounting	2X #10-32 UNF-2B Mounting Holes
Weight	Plunger - 0.6 oz [17.0 gms], Total - 2.5 oz [70.9 gms]
Life Expectancy	250,000 Cycles (Dependent on load conditions)
Agency Approvals	
UL File No. E57982 For Continuous Duty UL File No. E74443 For Insulation Systems S105	

Dimensions: inches [mm]

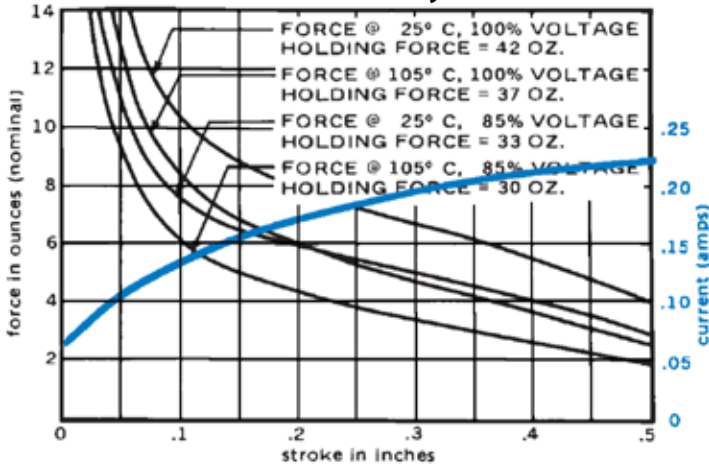
## Dimensional View

Units: Inches [mm]

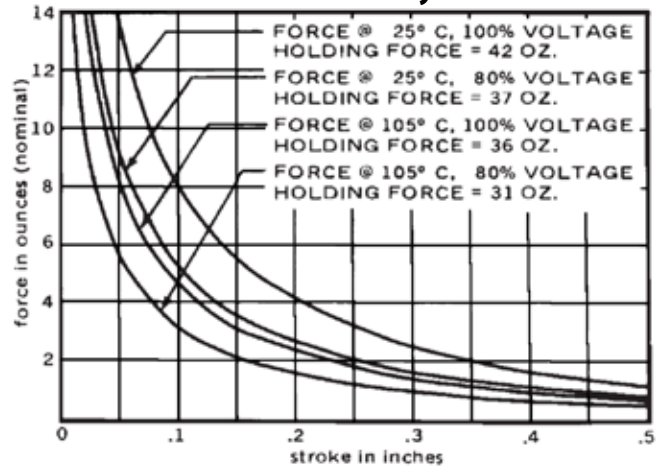


## Force Curves

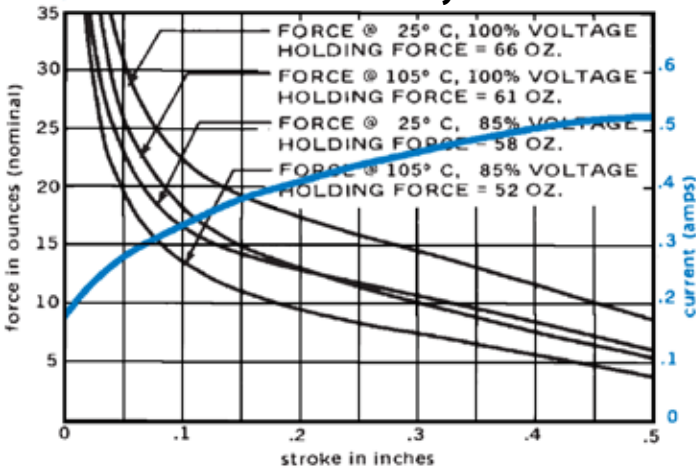
### AC Continuous Duty - 7.8 VA



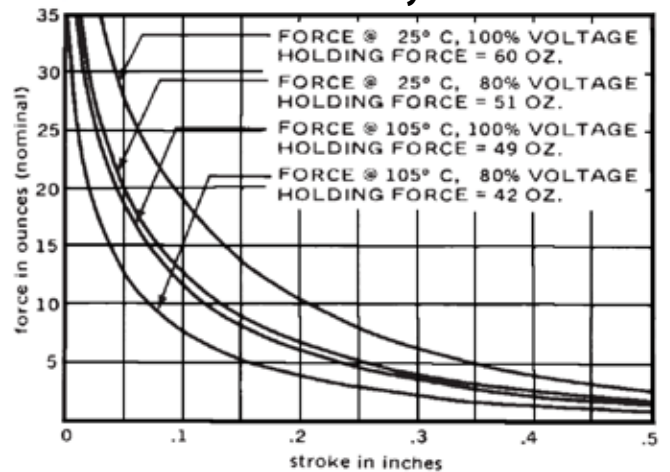
### DC Continuous Duty - 5 Watts



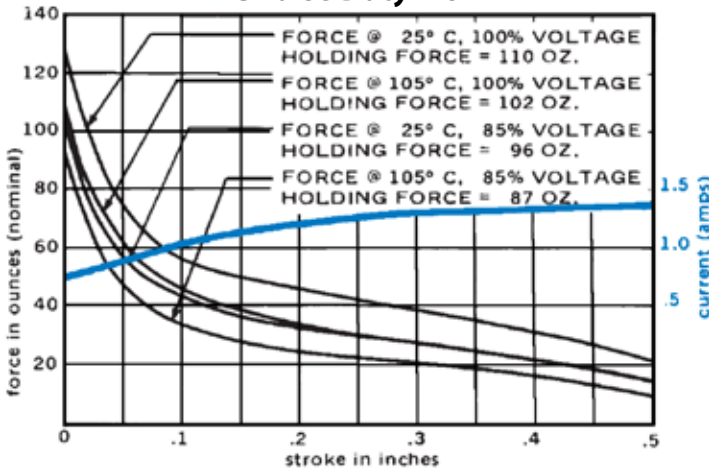
### AC Intermittent Duty - 21 VA



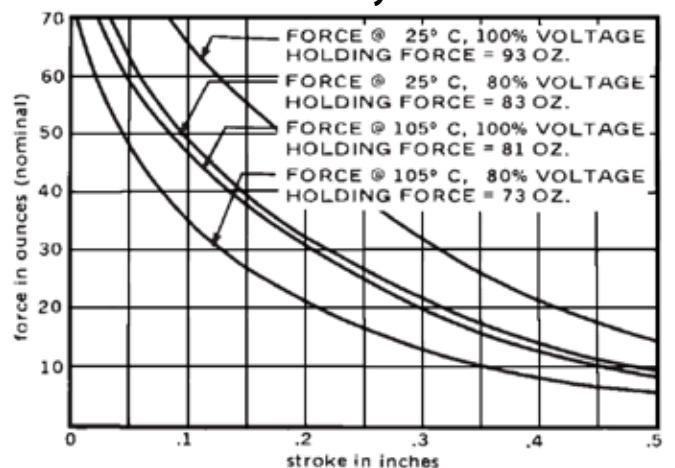
### DC Intermittent Duty - 11.5 Watts



### AC Pulse Duty - 78 VA



### DC Pulse Duty - 50 Watts



Standard intermittent duty cycle at nominal voltage is 25%, with three (3) minutes maximum "ON" and nine (9) minutes minimum "OFF" in a repetitive cycle. Standard Pulse duty cycle is 10% with 100 milliseconds "ON" and 900 milliseconds "OFF".  
NOTE: Approx 36 sq. in. Heat Sink Required

## Standard Part Numbers

Parts No.	Voltage	Duty Cycle	Power	Resistance (Ohms)	Operation	Typical Force oz [N] 100% Voltage, 77°F [25°C], Stroke @				
						0.000"	0.125"	0.250"	0.500"	0.750"
53637-80	6 VAC	Continuous	7.8 VA	1.23	Pull	42 [11.7]	9 [2.5]	7 [1.9]	4 [1.1]	0 [0.0]
53637-81	12 VAC			4.92						
53637-83	24 VAC			20.1						
53637-94*	120 VAC			509						
53637-97	240 VAC			2140						
53638-80	6 VAC	Intermittent	21 VA	0.533	Pull	66 [18.3]	20 [5.6]	16 [4.4]	8 [2.2]	0 [0.0]
53638-81	12 VAC			2.14						
53638-83	24 VAC			8.81						
53638-94*	120 VAC			220						
53638-97	240 VAC			875						
53639-80	6 VAC	Pulse	78 VA	0.193	Pull	110 [30.6]	52 [14.5]	42 [11.7]	21 [5.8]	0 [0.0]
53639-81	12 VAC			0.766						
53639-83	24 VAC			3.12						
53639-94	120 VAC			81.6						
53639-97	240 VAC			330						
53634-80	6 VDC	Continuous	5 Watts	7.38	Pull	42 [11.7]	6.5 [1.8]	3 [0.8]	1 [0.3]	0 [0.0]
53634-81	12 VDC			29.1						
53634-83*	24 VDC			118						
53634-93	110 VDC			2300						
53635-80	6 VDC	Intermittent	11.5 Watts	3.12	Pull	60 [16.7]	16 [4.4]	8 [2.2]	2.5 [0.7]	0 [0.0]
53635-81	12 VDC			12.6						
53635-83*	24 VDC			50.5						
53635-93	110 VDC			1060						
53636-80	6 VDC	Pulse	50 Watts	0.728	Pull	93 [25.9]	60 [16.7]	40 [11.1]	15 [4.2]	0 [0.0]
53636-81	12 VDC			2.96						
53636-83	24 VDC			11.5						
53636-93	110 VDC			220						

(\*) Normally Stocked

Non stocked items require a minimum order