



MAGNETIC LATCHING SOLENOID

D-frame, pull type solenoid with an internal permanent magnet for keeping the plunger in the retracted position without power.

Features

- Innovative design provides more pull and hold force than other solenoids of similar size.
- Low power consumption
- Molex connector for lead wires allows for easy connection to printed circuit boards.

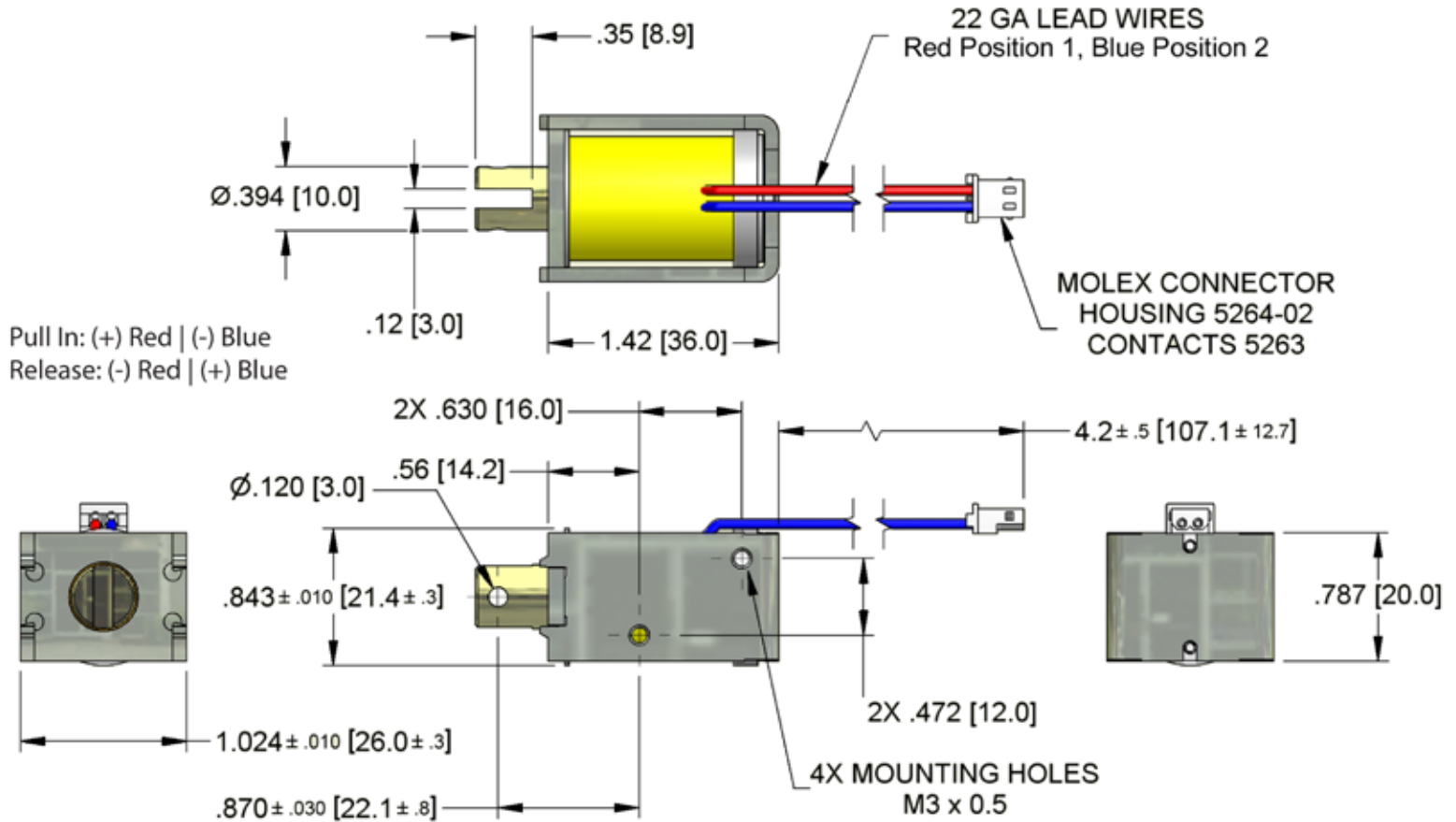


Electrical Specifications	
Coil Voltages	6, 12, 24 VDC - Other voltages available on request
Coil Power	12 Watts Intermittent & 48 Watts Pulse - Other options available on request
Coil Termination	22 GA lead wires with Molex connector
Duty Cycle	Intermittent and pulse duty available (see standard part numbers on page 3)
Coil Treatment	Tape wrapped
Insulation Class	Class B (130° C)
Dielectric Strength	30 Volts and Under: 500 VRMS Over 30 Volts: 1000 VRMS plus 2X rated voltage for 1 minute
Mechanical Specifications	
Size	1.420" (L) x 0.790" (W) x .1.020" (H) (See page 2 for dimensional drawing)
Forces	See force curves on page 2
Plunger Diameter	0.394"
Plunger Guide Material	Brass
Mounting	4X M3 x 0.5 Mounting Holes
Weight	Plunger - 0.9 oz., Total - 3.9 oz.
Life Expectancy	250,000 Cycles (Dependent on load conditions)
Agency Approvals	
UL File No. E74443 For Insulation Systems S105, S130, S130D	

All dimensions in Inches

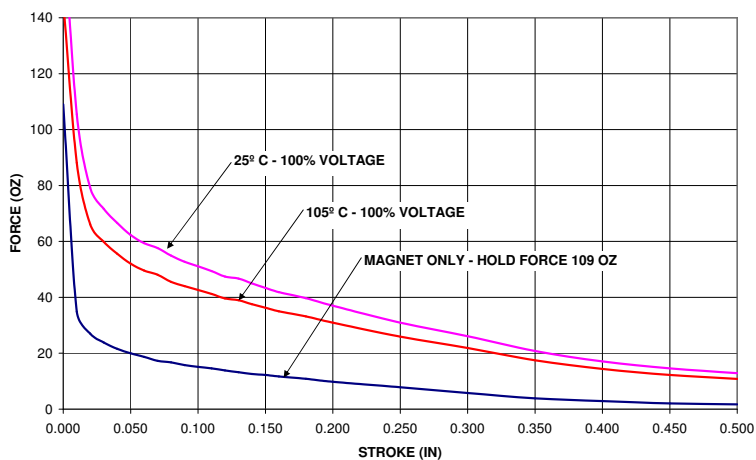
Dimensional View

Units: Inches [mm]

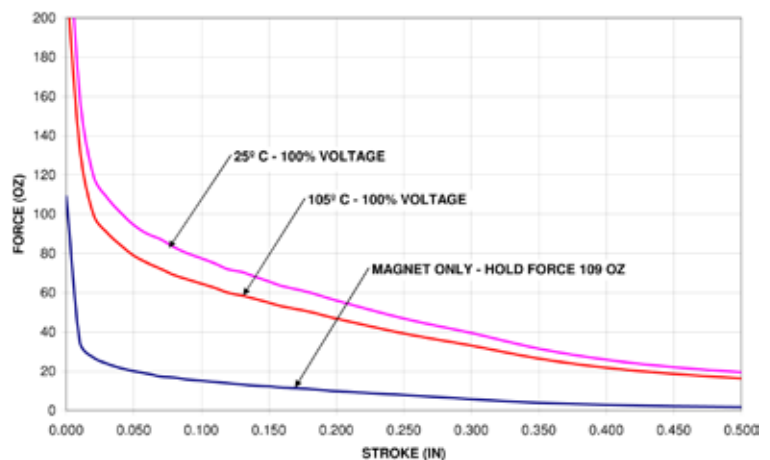


Force Curves

D26ML INTERMITTENT DUTY (12W)



D26ML PULSE DUTY (48W)



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). 100% Voltage, 77° F, Stroke @				
						0.000"	0.125"	0.250"	0.500"	0.750"
53800-86*	6 VDC	Intermittent	12 Watts	3	Pull	109	47.1	31	14.3	0
53800-87*	12 VDC			12						
53800-88*	24 VDC			48						
53800-92	6 VDC	Pulse	48 Watts	0.75		109	71.2	46.8	19.4	0
53800-93	12 VDC			3						
53800-94	24 VDC			12						

(*) Normally Stocked

Non stocked items require a minimum order