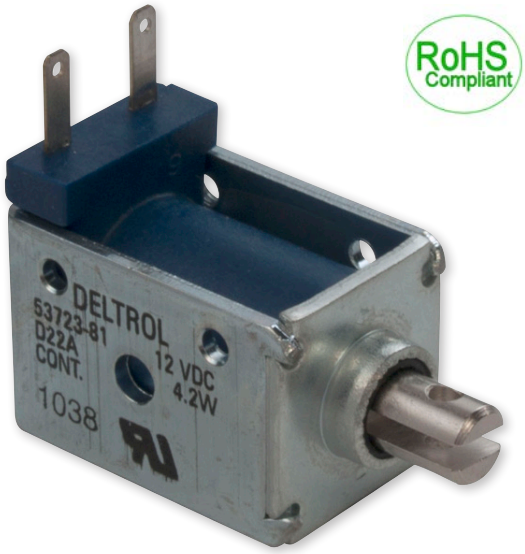
D-22

Deltrol CONTROLS



RoHS Compliant

D-FRAME SOLENOID

Two position linear solenoid with D-frame construction.

Features

- Balance of cost and performance
- 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	6.5 VA Continuous, 8.5 VA Intermittent, 60 VA Pulse 4.2 Watts Continuous, 9.6 Watts Intermittent, 40 Watts Pulse
Coil Termination	.110" quick connect terminals (standard) Wire leads optional with tape wrapped coil
Duty Cycle	Continuous, intermittent and pulse duty available (see standard part numbers on page 4)
Coil Treatment	Encapsulated (tape wrapped optional)
Insulation Class	Class A Rating - 105°C (221°F) Max. (standard)
Dielectric Strength	30 Volts and Under: 500 VRMS Over 30 Volts: 1000 VRMS plus 2X rated voltage for 1 minute
Mechanical Specifications	
Size	1.130" (L) x 0.750" (W) x 0.750" (H) (See page 2 for dimensional drawing)
Forces	See force curves on page 3
Plunger Diameter	0.250"
Plunger Guide Material	Plastic
Mounting	2X #4-40 UNC-2B Mounting Holes
Weight	Plunger - 0.25 oz., Total - 1.50 oz.
Life Expectancy	250,000 Cycles (Dependent on load conditions)
Agency Approval	UL File No. E57982 For Continuous Duty UL File No. E74443 For Insulation Systems S105

All dimensions in Inches

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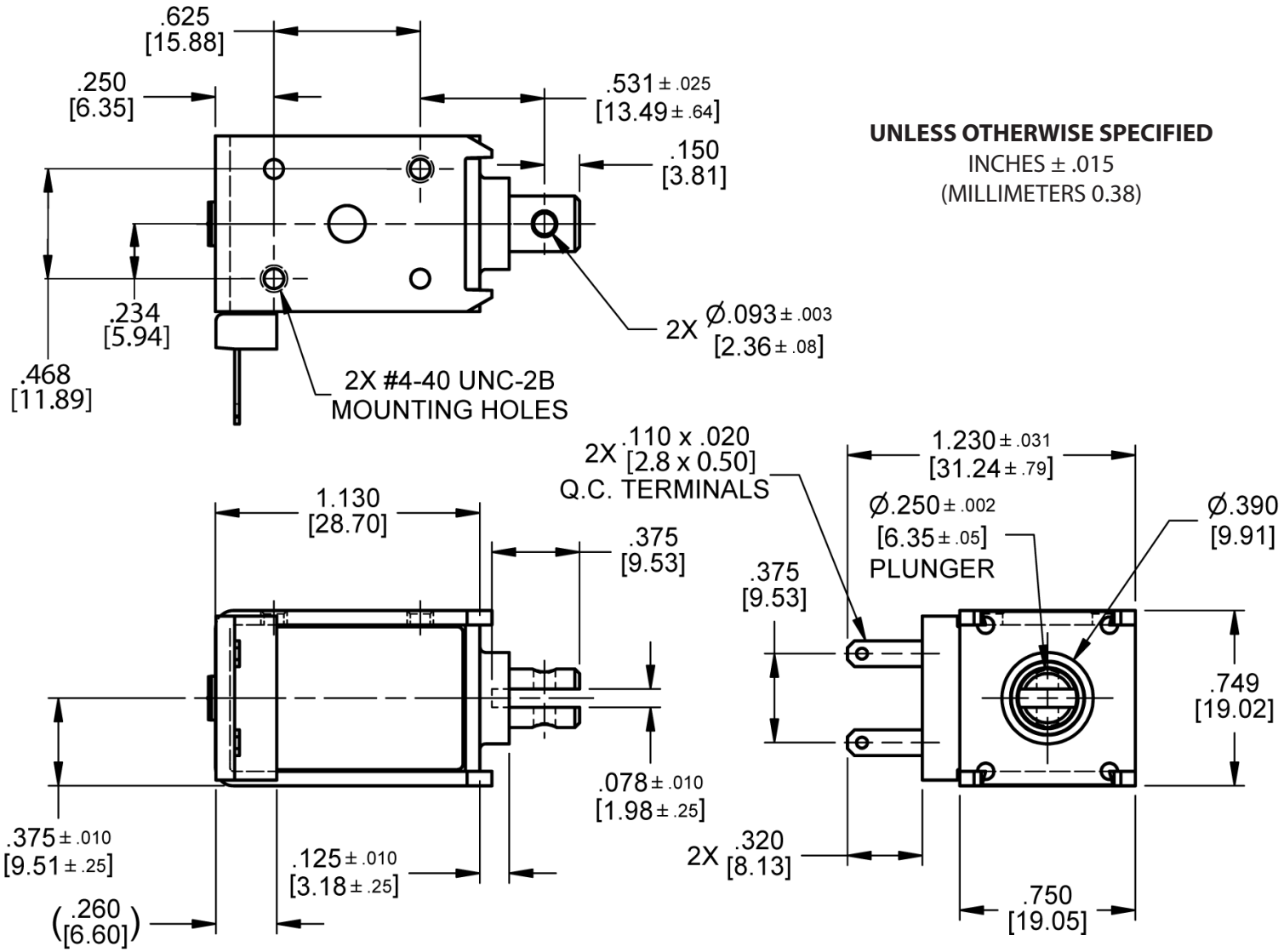
Dimensional View

Units: Inches [mm]



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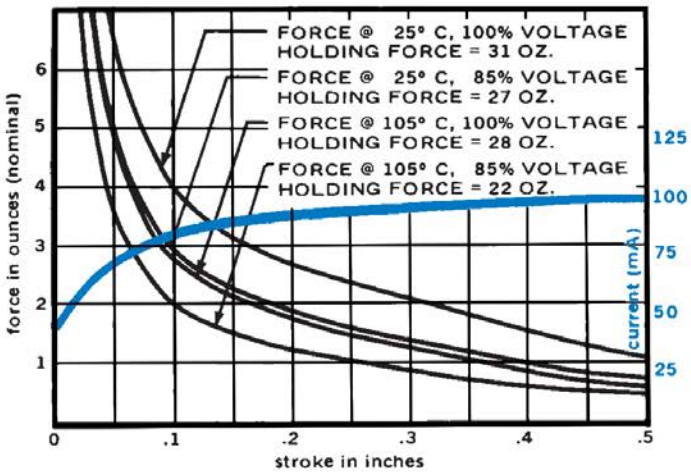
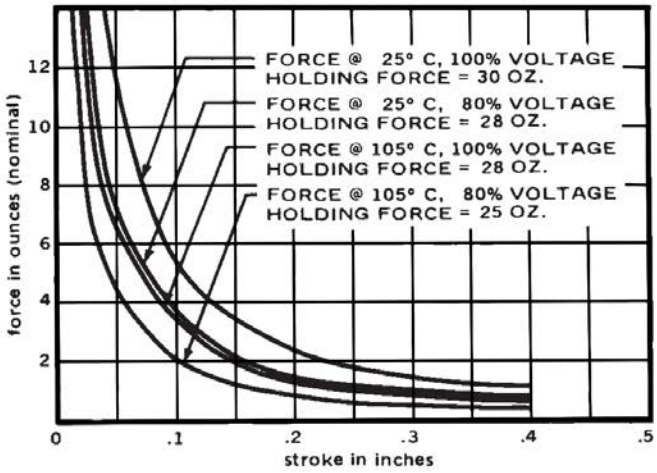
Force Curves

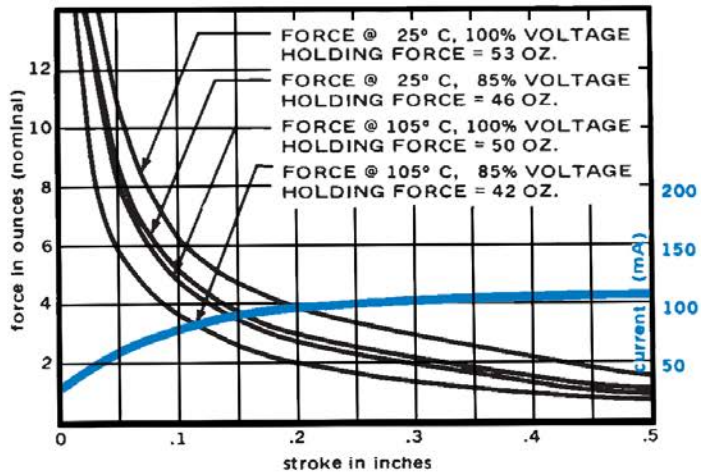
AC Continuous Duty - 6.5 VA



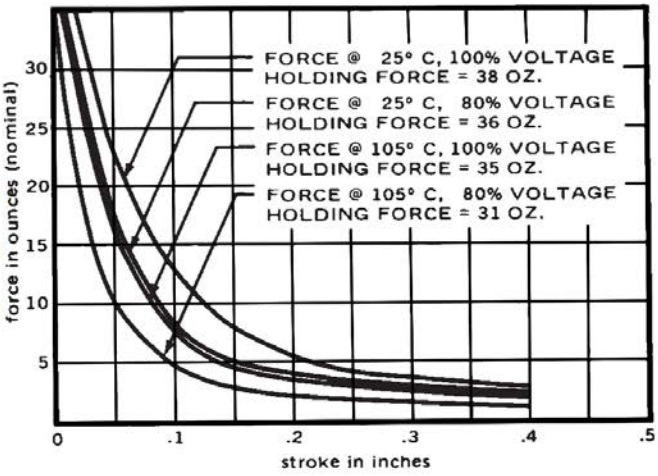
DC Continuous Duty - 4.2 Watts



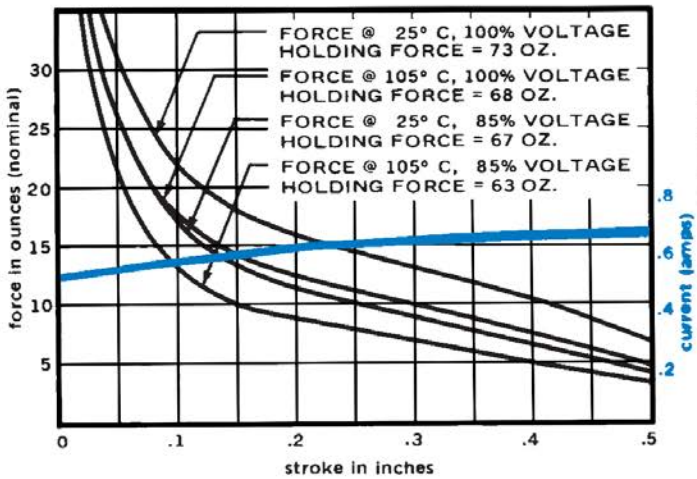
AC Intermittent Duty - 8.5 VA



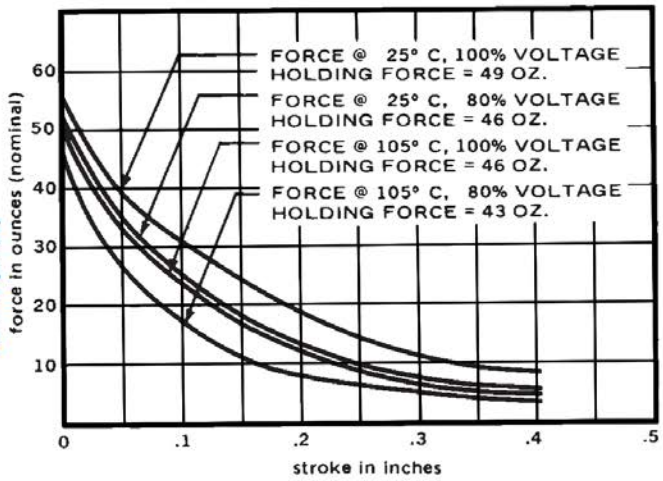
DC Intermittent Duty - 9.6 Watts



AC Pulse Duty- 60 VA



DC Pulse Duty - 40 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

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Deltrol CONTROLS

Standard Part Numbers

Parts No.	Voltage	Duty Cycle	Power	Resistance (Ohms)	Operation	Typical Force (oz). 100% Voltage, 77°, Stroke @				
						0.000"	0.125"	0.250"	0.500"	0.750"
53724-80	6 VAC	Continuous	6.5 VA	2.75	Pull	31	3.5	2.4	1	0
53724-81	12 VAC			10.9						
53724-82	24 VAC			43.4						
53724-84	120 VAC			1090						
53724-85	240 VAC			4300						
53724-86	6 VAC	Intermittent	8.5 VA	1.7	Pull	53	5.2	3.3	1.5	0
53724-87	12 VAC			7.0						
53724-88	24 VAC			27.4						
53724-90	120 VAC			724						
53724-91	240 VAC			2880						
53724-92	6 VAC	Pulse	60 VA	0.420	Pull	73	19	14	7	0
53724-93	12 VAC			1.7						
53724-94	24 VAC			27.4						
53724-96	120 VAC			173						
53724-97	240 VAC			724						
53723-80	6 VDC	Continuous	4.2 Watts	8.7	Pull	30	4	1.8	0	0
53723-81*	12 VDC			35.0						
53723-82*	24 VDC			141						
53723-84	110 VDC			2880						
53723-86	6 VDC	Intermittent	9.6 Watts	3.8	Pull	38	10	4	0	0
53723-87	12 VDC			14.8						
53723-88	24 VDC			60						
53723-90	110 VDC			1274						
53723-92	6 VDC	Pulse	40 Watts	0.91	Pull	49	27	15	0	0
53723-93	12 VDC			3.8						
53723-94	24 VDC			14.8						
53723-96	110 VDC			302						

(*) Normally Stocked
Non stocked items require a minimum order

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