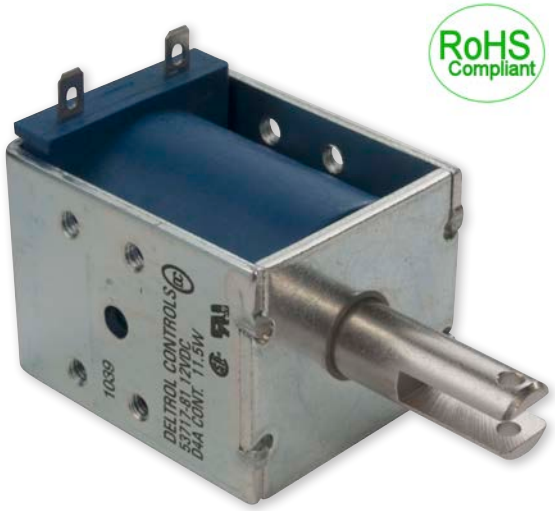
Deltrol CONTROLS

D-FRAME SOLENOID



RoHS Compliant

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	10 VA Continuous, 59 VA Intermittent, 100 VA Pulse, 11.5 Watts Continuous, 47 Watts Intermittent, 105 Watts Pulse
Coil Termination	.187" Quick Connect Terminals (standard) .250" Quick Connect Terminals (optional) Wire leads optional with tape wrapped coil
Duty Cycle	Continuous, Intermittent and pulse (see standard part numbers on page 4)
Coil Treatment	Encapsulated (tape wrap optional)
Insulation Class	Class A Rating - 105ºC (221ºF) Max. (standard) Class F Rating - 155ºC (311ºF) Max. (optional)
Dielectric Strength	30 Volts and Under: 500 VRMS Over 30 Volts: 1000 VRMS plus 2X rated voltage for 1 minute
Mechanical Specifications	
Size	1.996" (L) x 1.626" (W) x 1.828" (H) (See dimensional drawing on page 2)
Forces	See page 3 for force curves
Plunger Diameter	0.4375"
Plunger Guide Material	Plastic
Mounting	8X #8-32 UNC-2B Mounting Holes
Weight	Plunger - 1.63 oz., Total - 12 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, S130, S130D, S130D1, S155D

All dimensions in Inches

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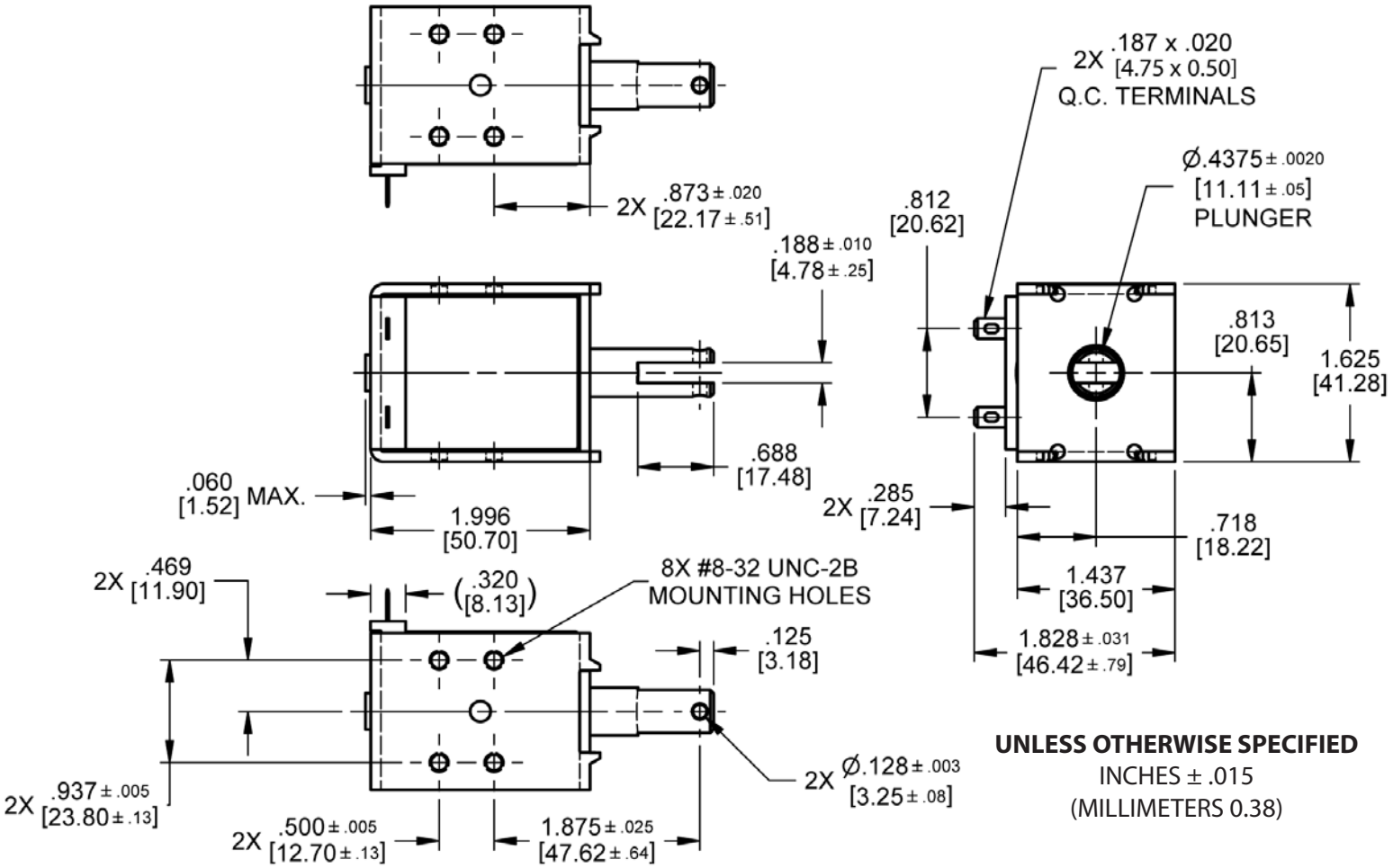
D-4

Dimensional View

Units: Inches [mm]



UNLESS OTHERWISE SPECIFIED
INCHES ± .015
(MILLIMETERS 0.38)

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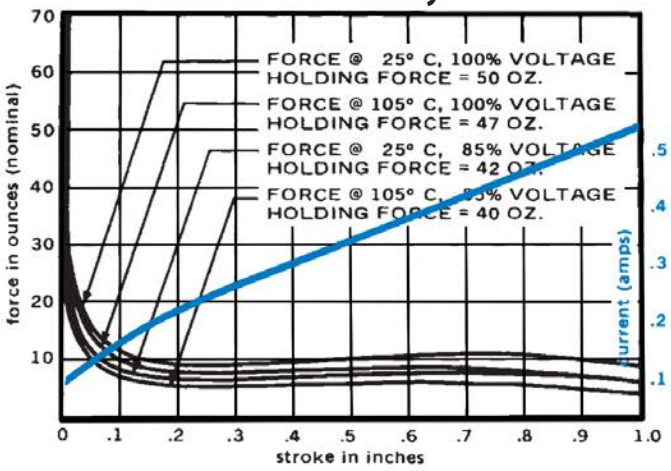
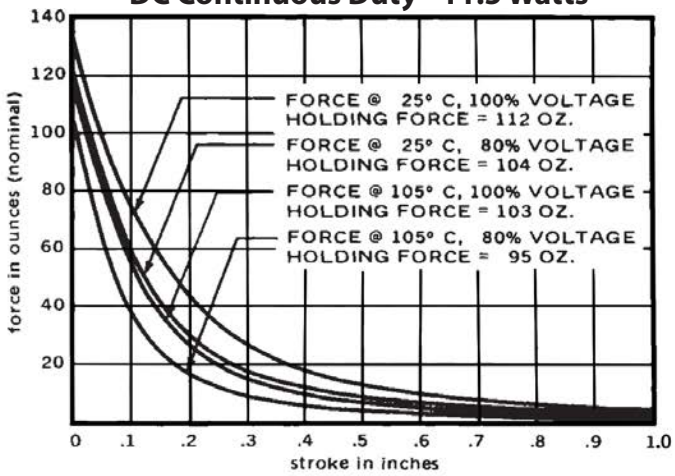
Force Curves

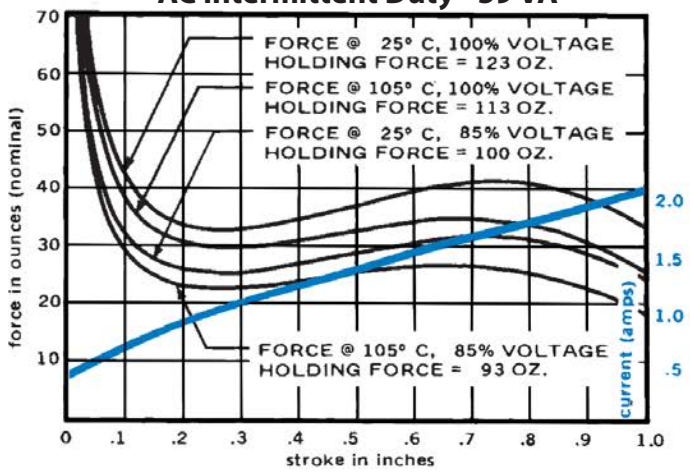
AC Continuous Duty - 10 VA



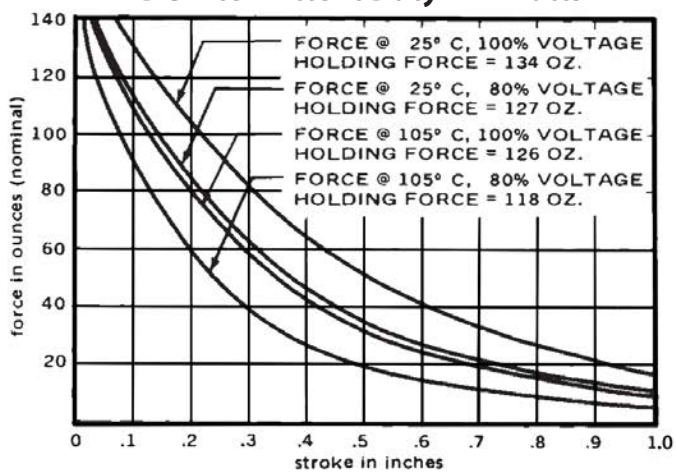
DC Continuous Duty - 11.5 Watts



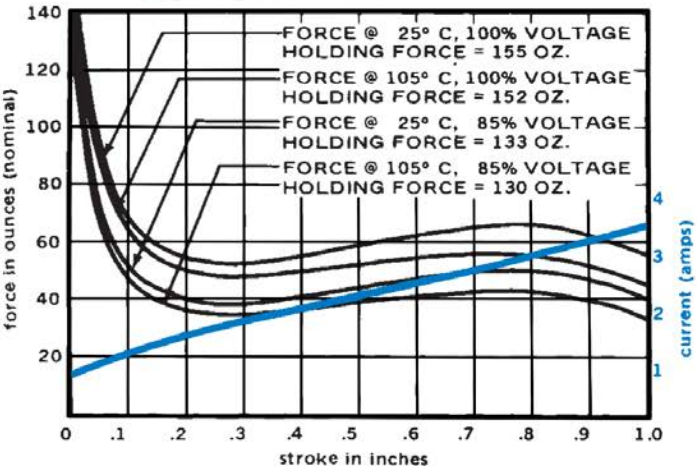
AC Intermittent Duty - 59 VA



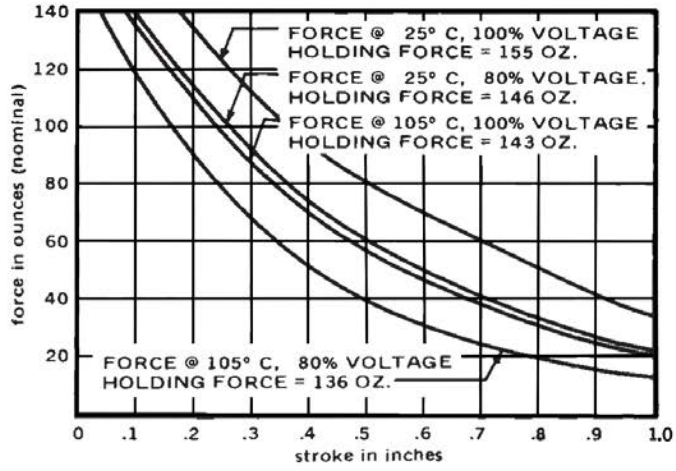
DC Intermittent Duty - 47 Watts



AC Pulse Duty- 100 VA



DC Pulse Duty - 105 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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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"
53718-80	6 VAC	Continuous	10 VA	0.384	Pull	50	10	9	10	11
53718-81	12 VAC			1.55						
53718-82	24 VAC			6.25						
53718-84*	120 VAC			163						
53718-85	240 VAC			665						
53718-87	12 VAC	Intermittent	59 VA	.384	Pull	123	38	33	36	41
53718-88	24 VAC			1.55						
53718-90*	120 VAC			41.0						
53718-91	240 VAC			163						
53718-94	24 VAC	Pulse	100 VA	1.01	Pull	155	62	52	59	65
53718-96	120 VAC			26.1						
53718-97	240 VAC			107						
53717-80	6 VDC	Continuous	11.5 Watts	3.01	Pull	112	65	32	12	8
53717-81*	12 VDC			12.3						
53717-82*	24 VDC			50.0						
53717-84	110 VDC			1070						
53717-86	6 VDC	Intermittent	47 Watts	0.744	Pull	134	123	90	50	30
53717-87*	12 VDC			3.01						
53717-88*	24 VDC			12.3						
53717-90	110 VDC			261						
53717-92	6 VDC	Pulse	105 Watts	0.337	Pull	155	157	122	80	55
53717-93	12 VDC			1.36						
53717-94	24 VDC			5.48						
53717-96	110 VDC			107						

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

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