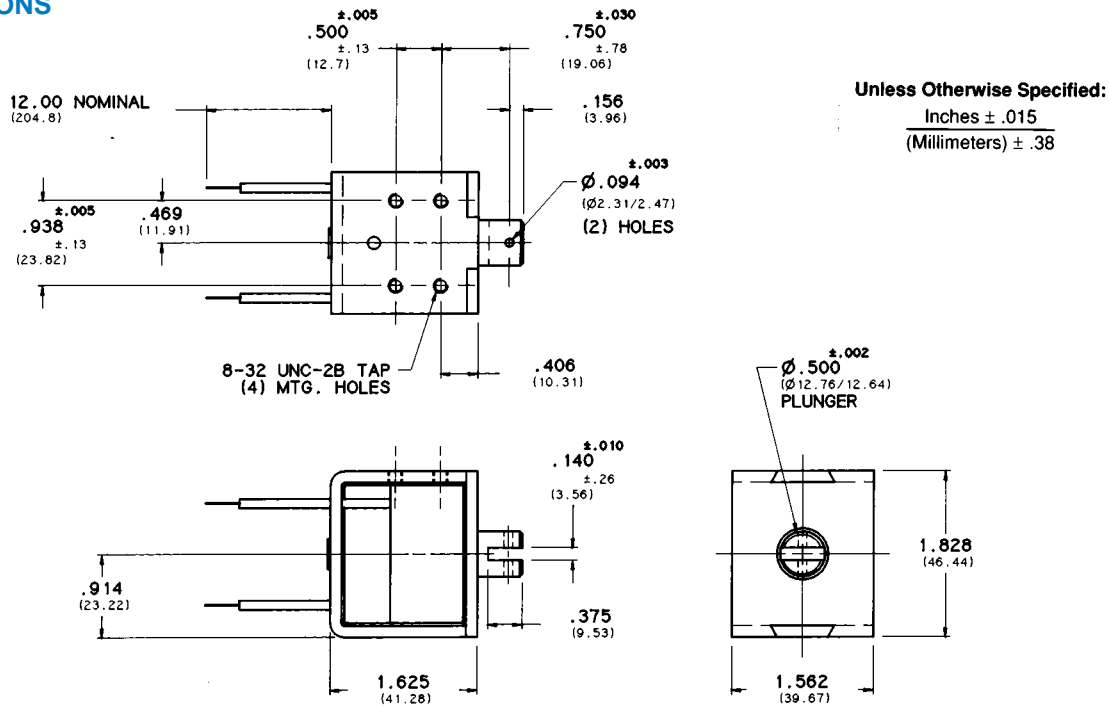




D-50 "D" FRAME SOLENOID

DIMENSIONS



COIL TREATMENT:

Tape Wrapped.
 Class A Rating (standard)
 Class B Rating (optional)

MAXIMUM OPERATING TEMPERATURE:

Class A – 105°C (221°F)
 Class B – 130°C (266°F)

DIELECTRIC STRENGTH:

30 Volts and Under: 500 VRMS
 Over 30 Volts: 1,000 VRMS plus 2x rated voltage for one minute

STANDARD POWER RATINGS:

DUTY	NOMINAL AC POWER (SEATED)	NOMINAL DC POWER
Continuous	14 VA	10 W
Intermittent	53 VA	25 W
Pulse	140 VA	100 W

UL INFORMATION:

UL File No. E57982 For Continuous Duty
 UL File No. E74443 For Insulation Systems
 S105 & S130

WEIGHT:

Plunger – 1.27 Oz.
 Total – 12 Oz.

PLUNGER GUIDE MATERIAL:

Plastic

LIFE EXPECTANCY:

10⁷ Cycles Under Optimum Load Conditions

TERMINATION:

Wire Leads (standard)

PLUNGER CONE ANGLE (DC):

38 Degrees Stepped Cone (standard)
 also available
 flat, 60 degrees, 90 degrees, custom

MAXIMUM DIMENSIONS:

Length 1.640 In.
 Width 1.577 In.
 Height 1.843 In.
 Plunger Diameter ∅.502 In.

MAXIMUM STROKE:

1.000 In. (AC) .850 In. (DC)

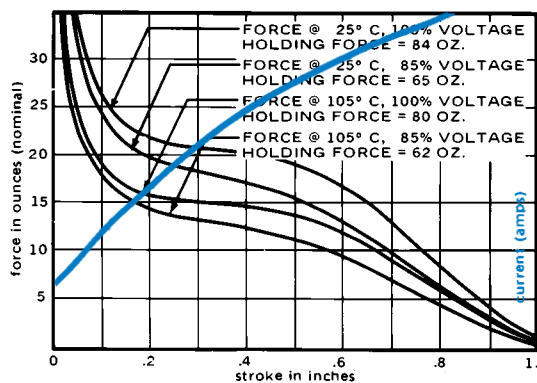
D-50 STANDARD COIL RATING

VOLTAGE	CONTINUOUS DUTY	RESISTANCE AC ±10% DC ±5%	INTERMITTENT DUTY	RESISTANCE AC ±10% DC ±5%	PULSE DUTY	RESISTANCE AC ±10% DC ±5%
AC COILS (60 Hz)	P/N		P/N		P/N	
6 VAC	—	—	—	—	—	—
12 VAC	51053-81	.95 OHMS	—	—	—	—
24 VAC	51053-83	3.8 OHMS	50014-83	1.55 OHMS	53699-83	.70 OHMS
120 VAC	51053-94	97.4 OHMS	50014-94	40.7 OHMS	53699-94	18.1 OHMS
240 VAC	51053-97	392 OHMS	50014-97	162 OHMS	53699-97	72.7 OHMS
DC COILS						
6 VDC	51051-80	3.77 OHMS	50029-80	1.42 OHMS	53744-80	.35 OHMS
12 VDC	51051-81	14.5 OHMS	50029-81	5.7 OHMS	53744-81	1.42 OHMS
24 VDC	51051-83	58.2 OHMS	50029-83	23.0 OHMS	53744-82	5.7 OHMS
110 VDC	51051-93	1210 OHMS	50029-93	486 OHMS	53744-84	121 OHMS

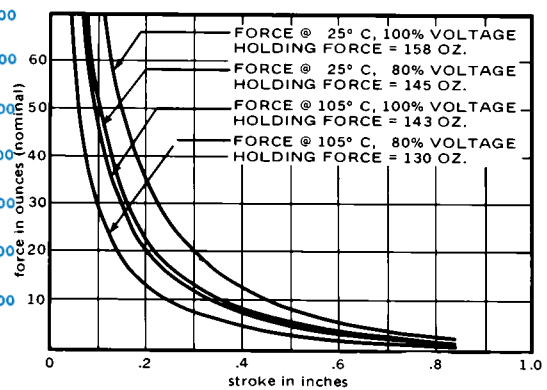
Non Stock – Minimum Quantity May Be Required.

D-50 FORCE CURVES (CLASS A)

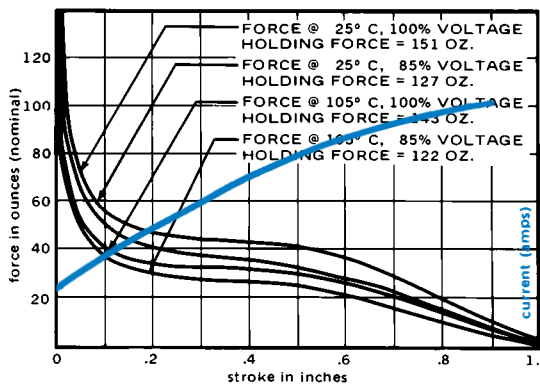
AC CONTINUOUS DUTY - 14VA



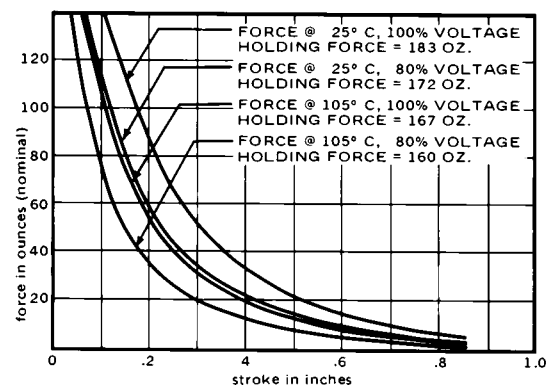
DC CONTINUOUS DUTY - 10 WATTS



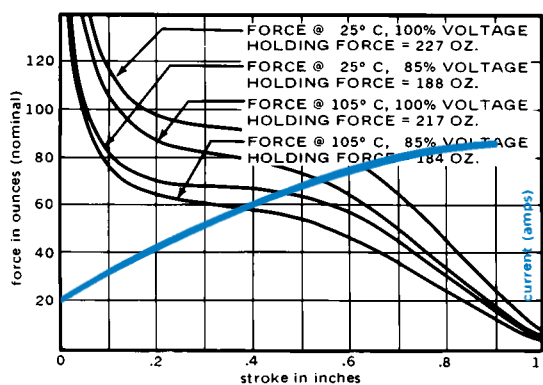
AC INTERMITTENT DUTY - 53VA



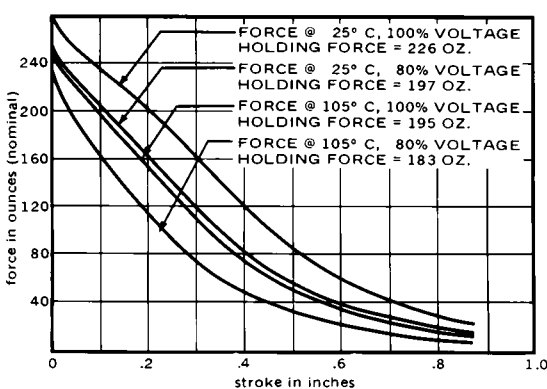
DC INTERMITTENT DUTY - 25 WATTS



AC PULSE DUTY - 140VA



DC PULSE DUTY - 100 WATTS



Standard intermittent duty cycle at nominal voltage is (three) 3 minutes "ON" and (nine) 9 minutes "OFF". Standard Pulse duty cycle is 100 milliseconds "ON" and 900 milliseconds "OFF".