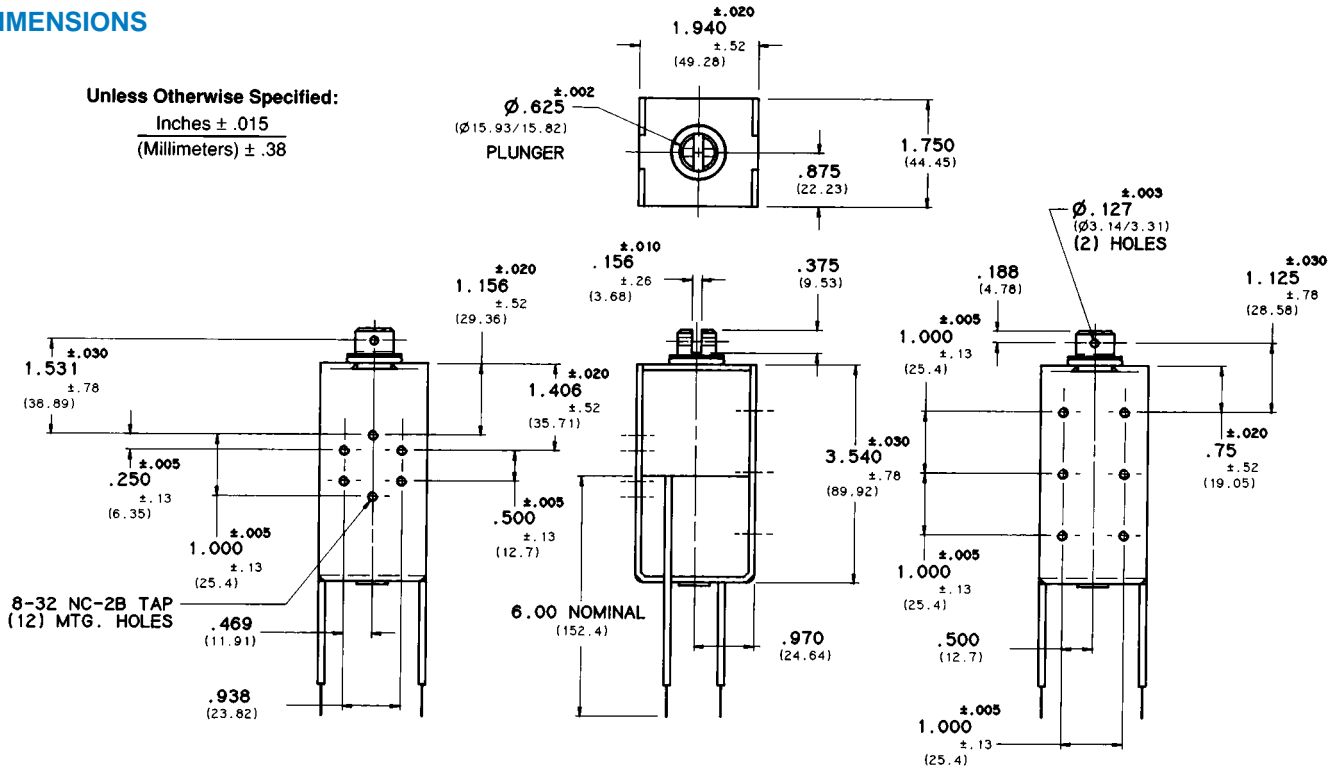




D-90 "D" FRAME SOLENOID

DIMENSIONS

Unless Otherwise Specified:
 Inches $\pm .015$
 (Millimeters) $\pm .38$



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 DC POWER
Continuous	23 W
Intermittent	58 W
Pulse	230 W

UL INFORMATION:

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

WEIGHT:

Plunger – 4.29 Oz.
 Total – 2 Lbs. 2 Oz.

PLUNGER GUIDE MATERIAL:

Plastic

LIFE EXPECTANCY:

10⁷ Cycles Under Optimum Load Conditions

TERMINATION:

Wire Leads (standard)

PLUNGER CONE ANGLE (DC):

40 Degrees (standard)
 also available
 flat, 60 degrees, 90 degrees, custom

MAXIMUM DIMENSIONS:

Length 3.570 In.
 Width 1.765 In.
 Height 1.960 In.
 Plunger Diameter \varnothing .627 In.

MAXIMUM STROKE:

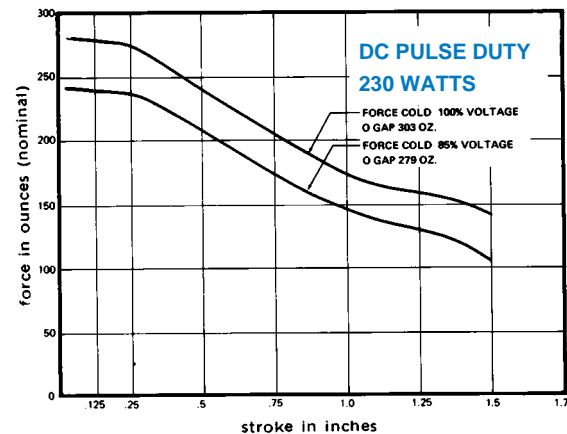
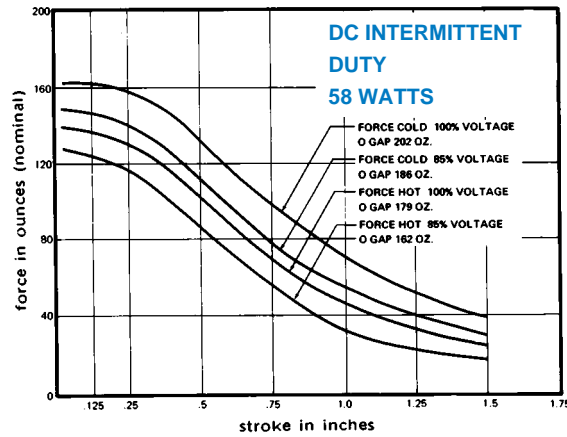
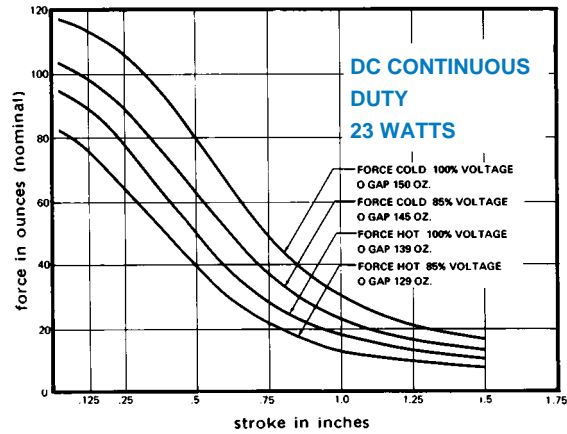
1.500 In.

D-90 STANDARD COIL RATING

VOLTAGE	CONTINUOUS DUTY	RESISTANCE ±5%	INTERMITTENT DUTY	RESISTANCE ±5%	PULSE DUTY	RESISTANCE ±5%
DC COILS	P/N		P/N		P/N	
3 VDC	—	—	—	—	—	—
6 VDC	53654-80	1.58 OHMS	—	—	—	—
12 VDC	53654-81	6.3 OHMS	53655-81	2.2 OHMS	53656-81	.6 OHMS
24 VDC	53654-83	25 OHMS	53655-83	10.2 OHMS	53656-83	2.2 OHMS
110 VDC	53654-93	506 OHMS	53655-93	204 OHMS	53656-93	51 OHMS

Non Stock – Minimum Quantity May Be Required.

D-90 FORCE CURVES (CLASS A)



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".

NOTE: Cold Force @ 25°C (77°F) Coil Temperature
Hot Force @ 110°C (230°F) Coil Temperature
NOTE: Approx. 100 sq. in. Heat Sink Required.