



## D-FRAME SOLENOID

Two position linear solenoid with D-frame construction.

### Features

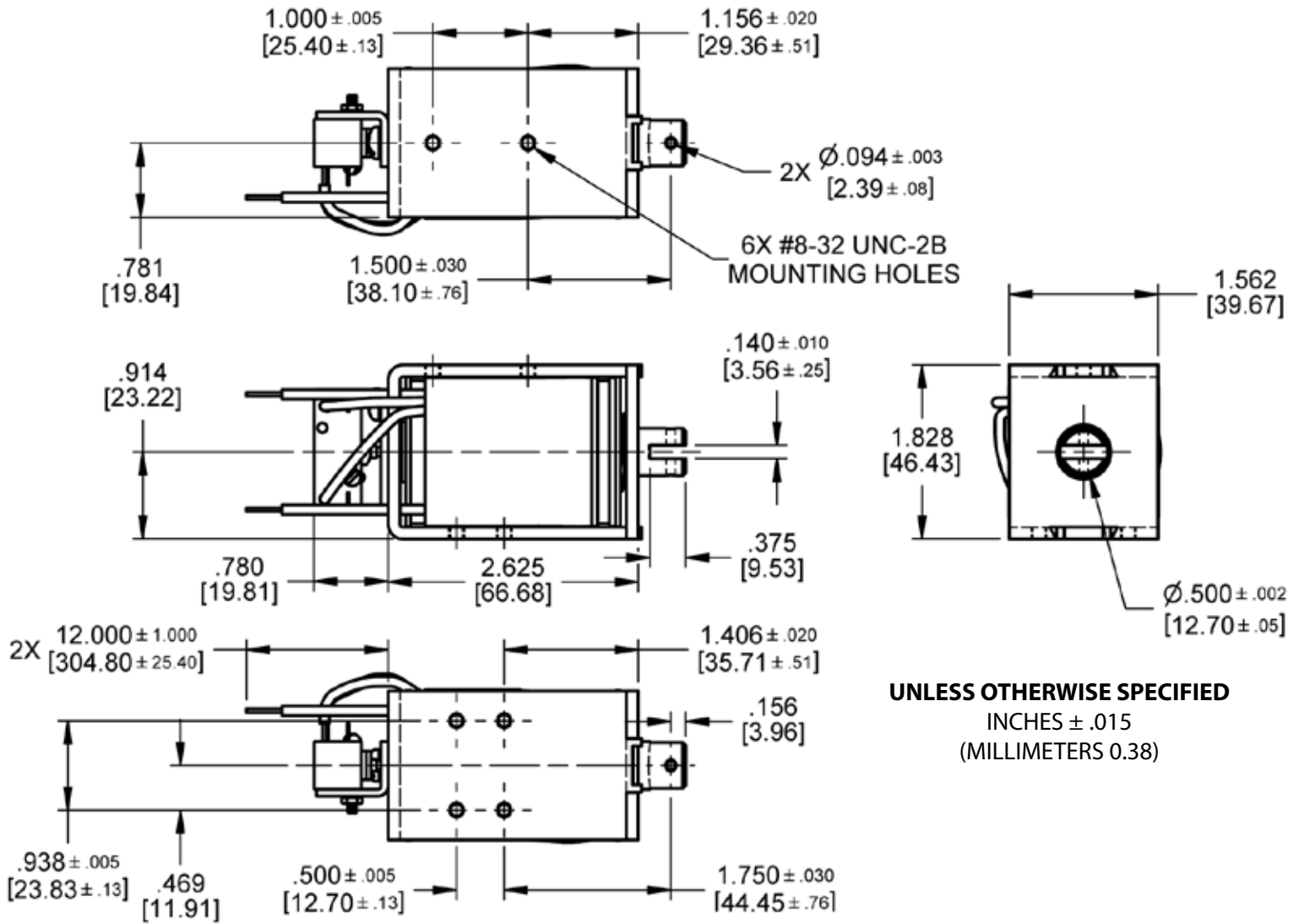
- Balance of cost and performance
- DC solenoids available

| Electrical Specifications |                                                                                                |
|---------------------------|------------------------------------------------------------------------------------------------|
| Coil Voltages             | 6, 12, 24, 28, 32, 36, 48, 90, 115 VDC                                                         |
| Coil Power                | 150 Watts Continuous                                                                           |
| Coil Termination          | Wire leads (standard)                                                                          |
| Duty Cycle                | Continuous                                                                                     |
| Coil Treatment            | Tape Wrapped                                                                                   |
| Insulation Class          | Class A Rating - 105°C (221°F) Max. (standard)                                                 |
| Dielectric Strength       | 30 Volts and Under: 500 VRMS<br>Over 30 Volts: 1000 VRMS plus 2X rated voltage for 1 minute    |
| Mechanical Specifications |                                                                                                |
| Size                      | 2.625" [66.7] (L) x 1.562" [39.7] (W) x 1.828" [46.4] (H) (See page 2 for dimensional drawing) |
| Forces                    | See force curves on page 2                                                                     |
| Plunger Diameter          | Ø 0.500" [12.7]                                                                                |
| Plunger Guide Material    | Brass                                                                                          |
| Mounting                  | 6X #8-32 UNC-2B Mount Holes                                                                    |
| Weight                    | Plunger - 1.9 oz [53.9 gms], Total - 19.0 oz [538.7 gms]                                       |
| Life Expectancy           | 250,000 Cycles (Dependent on load conditions)                                                  |
| Agency Approval           |                                                                                                |

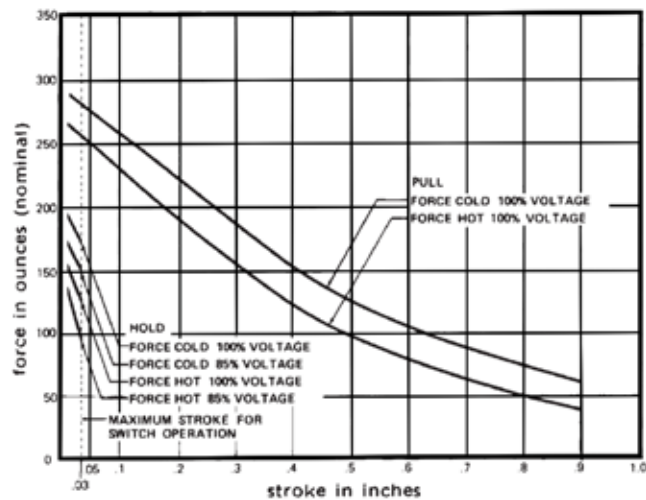
Dimensions: inches [mm]

## Dimensional View

Units: Inches [mm]

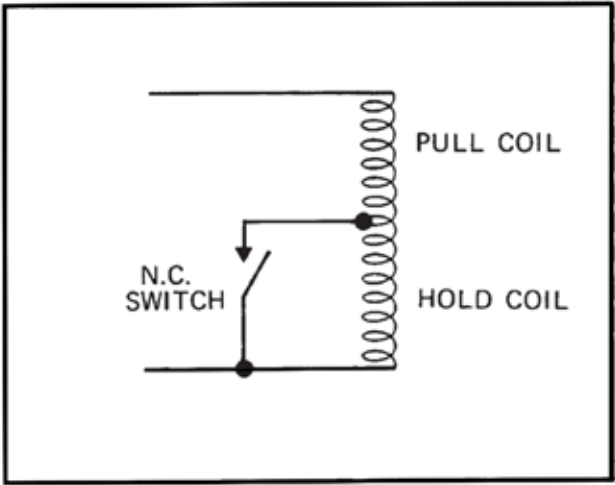


Force Curve



Schematic

(With plunger at 0 stroke)



## Standard Part Numbers

| Parts No. | Voltage | Duty Cycle | Power    | Resistance (Ohms)       | Operation | Typical Force oz [N] 100% Voltage, 77°F [25°C], Stroke @ |               |               |               |              |
|-----------|---------|------------|----------|-------------------------|-----------|----------------------------------------------------------|---------------|---------------|---------------|--------------|
|           |         |            |          |                         |           | 0.000"                                                   | 0.125"        | 0.250"        | 0.500"        | 0.750"       |
| 51073-80  | 6 VDC   | Continuous | 150 Watt | 0.24 Pull<br>2.75 Hold  | Pull      | 200<br>[55.6]                                            | 250<br>[69.5] | 205<br>[57.0] | 125<br>[34.8] | 80<br>[22.2] |
| 51073-81* | 12 VDC  |            |          | 0.96 Pull<br>11 Hold    |           |                                                          |               |               |               |              |
| 51073-83* | 24 VDC  |            |          | 3.84 Pull<br>44.2 Hold  |           |                                                          |               |               |               |              |
| 51073-85  | 28 VDC  |            |          | 5.2 Pull<br>60 Hold     |           |                                                          |               |               |               |              |
| 51073-87  | 32 VDC  |            |          | 6.8 Pull<br>78.6 Hold   |           |                                                          |               |               |               |              |
| 51073-88  | 36 VDC  |            |          | 8.6 Pull<br>99 Hold     |           |                                                          |               |               |               |              |
| 51073-89  | 48 VDC  |            |          | 15.4 Pull<br>176.6 Hold |           |                                                          |               |               |               |              |
| 51073-90  | 90 VDC  |            |          | 54 Pull<br>620 Hold     |           |                                                          |               |               |               |              |
| 51073-93  | 115 VDC |            |          | 88 Pull<br>1020 Hold    |           |                                                          |               |               |               |              |

(\*) Normally Stocked

Non stocked items require a minimum order