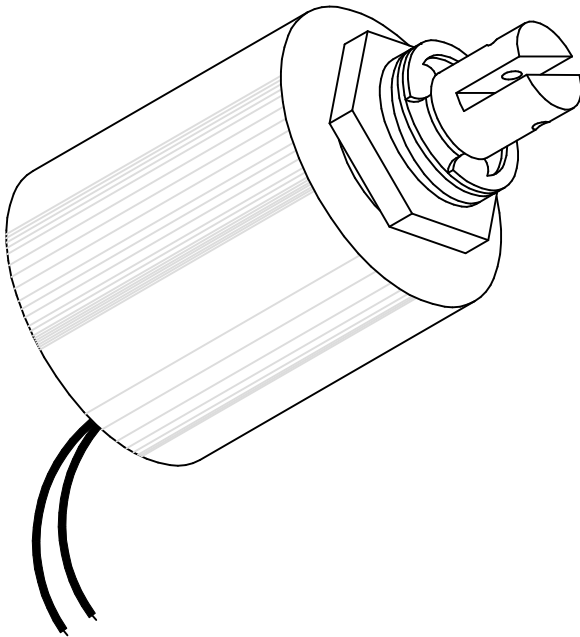


MAGNETIC SENSOR SYSTEMS

Pull Type Tubular Solenoid



Series S-22-200
2.0" DIA X 2.19"
[50.8 mm X 55.6 mm]

TOTAL WEIGHT: 25.7 OUNCES [730 GR]

PLUNGER WEIGHT: 3.4 OUNCES [96 GR]

| | | | | |
|---------------------------|----------|-----------|-----------|------------|
| duty cycle | 1 (100%) | 1/2 (50%) | 1/4 (25%) | 1/10 (10%) |
| maximum "ON" time, (Sec.) | ∞ | 600 | 220 | 60 |

| | | | | |
|--------------------------|------|------|------|------|
| watts | 15 | 30 | 60 | 150 |
| approximate ampere turns | 1850 | 2620 | 3700 | 5850 |

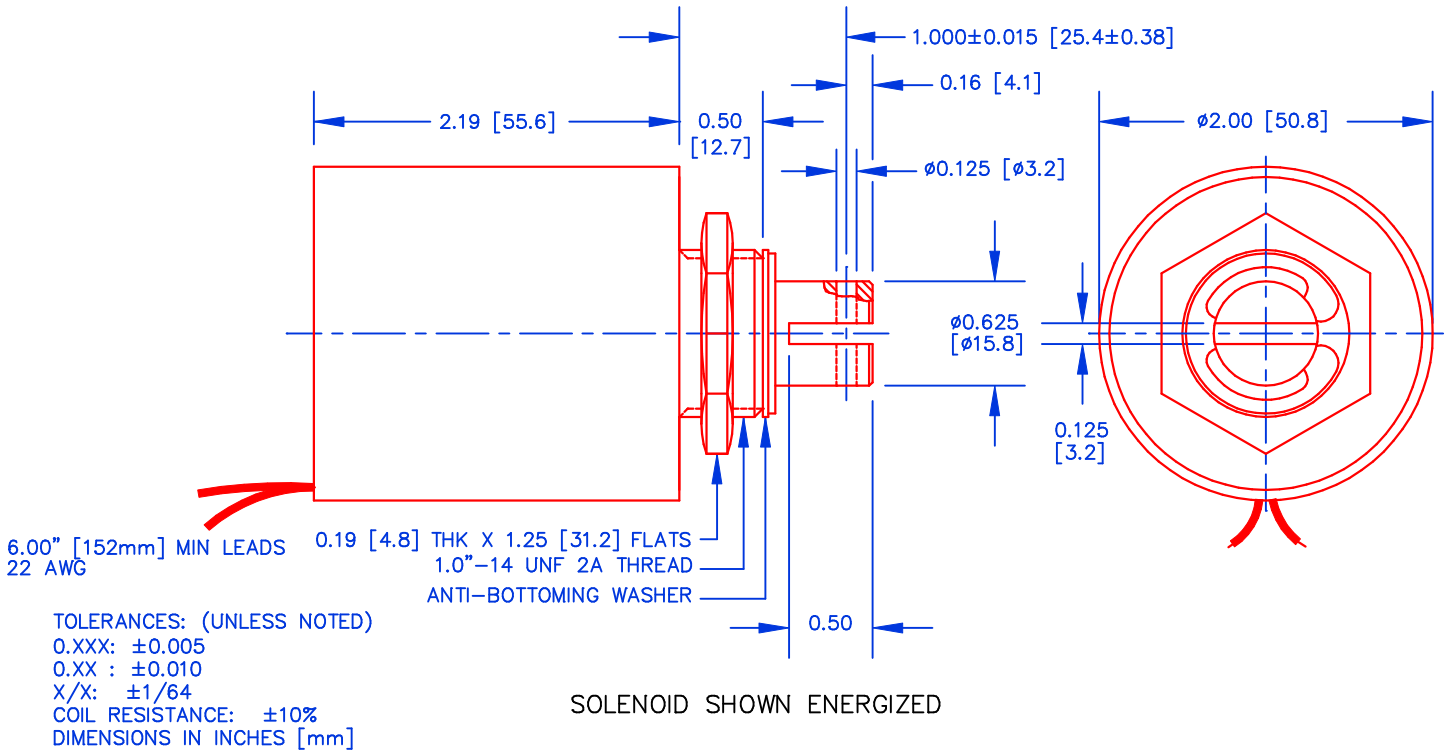
| AWG number | resistance (Ω) | volts DC | volts DC | volts DC | volts DC |
|------------|----------------|----------|----------|----------|----------|
| 18 | 1.0 | 4.0 | 5.6 | 7.9 | 12.5 |
| 19 | 1.7 | 5.0 | 7.0 | 9.9 | 15.7 |
| 20 | 2.6 | 6.1 | 8.7 | 12.3 | 19.4 |
| 21 | 4.2 | 8.0 | 11.2 | 15.9 | 25.1 |
| 22 | 6.6 | 9.9 | 14.0 | 19.9 | 31.4 |
| 23 | 10.8 | 12.7 | 17.9 | 25.4 | 40.1 |
| 24 | 17.1 | 15.7 | 22.2 | 31.4 | 49.6 |
| 25 | 27.1 | 20.1 | 28.5 | 40.3 | 63.7 |
| 26 | 43.6 | 25.6 | 36.2 | 51.2 | 80.9 |
| 27 | 68.2 | 31.9 | 45.1 | 63.8 | 101 |
| 28 | 110 | 40.9 | 57.8 | 81.8 | 129 |
| 29 | 172 | 51.3 | 72.6 | 103 | 162 |
| 30 | 281 | 64.6 | 91.3 | 129 | 204 |
| 31 | 446 | 82.1 | 116 | 164 | 260 |
| 32 | 685 | 102 | 144 | 203 | 321 |
| 33 | 1135 | 132 | 186 | 263 | 416 |
| 34 | 1940 | 172 | 243 | 343 | 542 |
| 35 | 3011 | 214 | 303 | 428 | |

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

S-22-200

MECHANICAL DIMENSIONS



TYPICAL PULL FORCE VERSUS STROKE

