

RL44X32

MAGNETIC-LATCHING PULL STYLE SOLENOID



 CUSTOMIZABLE



Magnet-Schultz of America (MSA) is proud to announce the largest, highest force magnetic-latching solenoid ever to be added to the standard MSA tubular solenoid product line.

Introducing the RL44X32 solenoid from MSA.

This magnetic-latching solenoid was developed for applications which require a high pull in force (30 pounds, maximum stroke of one inch), as well as the unique ability to hold the solenoid in the energized position by using a permanent magnet. This eliminates the need to continuously apply power to the solenoid.

This new, customizable tubular solenoid builds on the Magnet-Schultz family of high-performance solenoids offering:

- *Special plunger configurations*
- *Special coil voltages*
- *A boot (if dust protection for the plunger is needed)*
- *Integration into more complex, value added assemblies.*

S O L U T I O N S Y O U C A N B U I L D O N

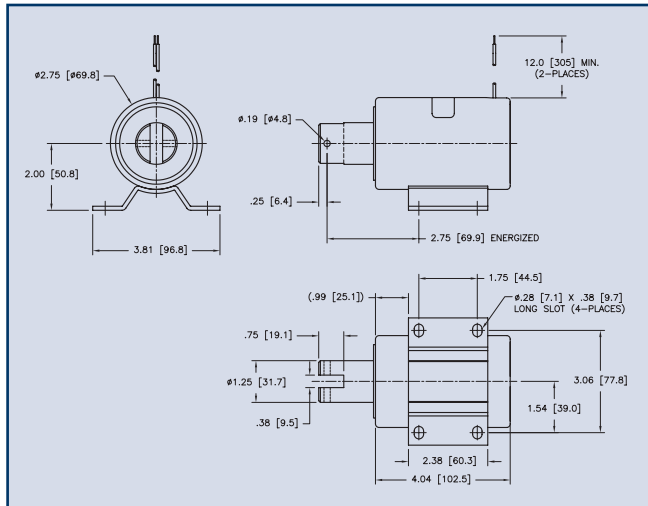


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Technical Information and Specifications

MECHANICAL PACKAGING



REFERENCE SPECIFICATIONS

- **Rated Voltage for Pull In:** 12 or 24 VDC
- **Power Ratings:**
Pulse Duty (1 second on, 9 seconds off): 192 watts
- **Insulation Class:** "B" (130 deg C)
- **Dielectric Strength:** 1000 V @ 60 Hz
- **Coil Termination:** Wire leads
- **Approximate Weight:** 100 ounces

ADDITIONAL FEATURES AND OPTIONS

 **CUSTOMIZABLE**

- Additional voltages available
- A spring return can be added to the solenoid
- Various connectors are available for the wire lead termination
- A silicone boot is available to cover the plunger for dust protection

PERFORMANCE CRITERIA

- **Pulse Duty Pull In Force:** 33 pounds (at the max stroke of 1 inch)
- **Permanent Magnet Holding Force:** 65 pounds
- **Release Voltage:** Applying 10% of the pull in voltage will assist in counteracting the hold of the permanent magnet.
- **Force Required to Release the Plunger:** 3 pounds of force, applied simultaneously with the release voltage, is needed to counteract the permanent magnet holding force. A spring is often used to apply this force. The spring can be included in the customer's mechanism, or provided as an optional solenoid component.

(all forces are at 25 deg C ambient)



This icon indicates features where customization is available. Products are available in standard offerings as well as customized solutions—tailored to fit specific performance requirements.

Reference Specifications and Performance Criteria are based on an expected operating environment as described in MSA engineering specification 990-0100-019.



MAGNET-SCHULTZ OF AMERICA
SPECIALISTS IN ELECTROMAGNETIC DEVICES