

APECS® 0175 Series Actuators

Provides proportional fuel control for construction, industrial and agricultural equipment. 1.75" diameter spring-return actuator, pull or push models, three spring types available.



Features:

- Pull or push actuation (Model 0175 pull, Model 0175P push)
- Flange or base mount
- Failsafe operation using spring to return actuator to minimum fuel position
- Corrosion resistant, plated steel housing and mounting base/flange
- Precise engine speed control when used with APECS electronic controllers. (See Controllers section, pages 74-83, for ordering information.)
- Variety of mounting styles, plungers, terminations, and springs available

Order Information: Complete the following model descriptions to build your Order No.

| () | () | () | () | () | () |
|----------------------|---------------------|--------------------|------------------------------|-----------------------|----------------|
| Model No. | Voltage | Mounting Style | Plunger Type | Termination Type | Return Spring* |
| 0175 Pull | 12 12 VDC | A Flange | 2 Ext. ¼-28 thread | L Lead wire | S1 |
| 0175P Push | 24 24 VDC | E Base | 3 Ext. M-6 thread | C Connector | S2 |
| | | | | | S3 |

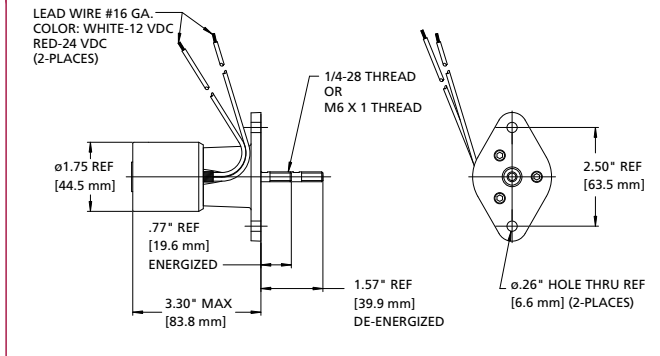
*Spring Chart

| Spring Type | PART NO. | De-energized Spring Force | Energized Spring Force | Spring Rate |
|-------------|----------|---------------------------|------------------------|--------------------------|
| S1 | SA-4703 | 0.50 lbs (2.2 N) | 5.25 lbs (23.4 N) | 5.94 lbs/in (0.16 kg/mm) |
| S2 | SA-4704 | 0.25 lbs (1.1 N) | 6.00 lbs (26.7 N) | 7.20 lbs/in (0.13 kg/mm) |
| S3 | SA-4472 | 0.40 lbs (1.8 N) | 1.60 lbs (7.1 N) | 1.53 lbs/in (0.03 kg/mm) |

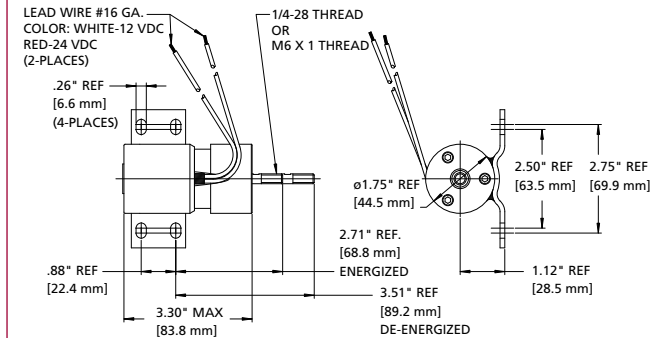
APECS® 0175 Series

0175 / Pull Actuation

FLANGE MOUNT

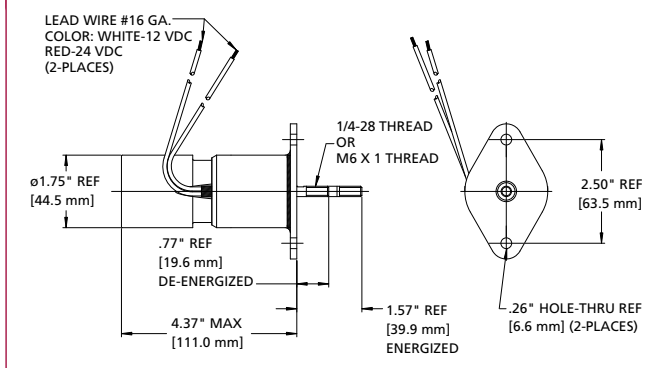


BASE MOUNT

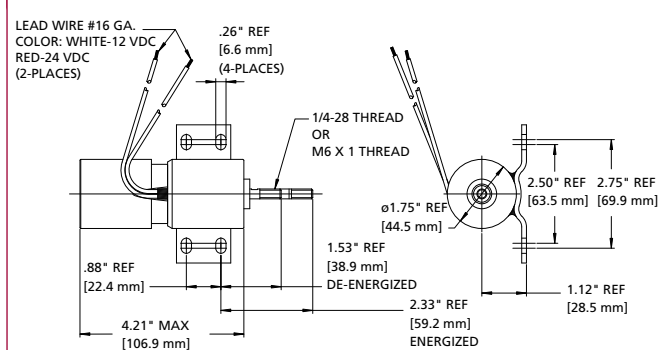


0175P / Push Actuation

FLANGE MOUNT



BASE MOUNT



Electrical Specifications:

| | |
|-----------------------|---|
| Stroke | 0.8" Maximum (20.3 mm) |
| Net Force | 4.0 lbs (17.8 N) |
| Work Rating | 0.3 ft. lbs (0.41 Nm) |
| Nominal Rated Current | 4.3 A (12 VDC) 2.3 A (24 VDC) |
| Response Time | 30 milliseconds for 10%-90% of stroke |
| Resistance* (nominal) | 2.80 Ohms (12 Volt) 10.63 Ohms (24 Volt) |

Mechanical Specifications:

| | |
|-----------------------|--|
| Operating Temperature | -40°F to + 250°F (-40°C to + 121°C) |
| Vibration | 15 G's |
| Shock | 200 G's |
| Weight | Approx. 1.5 lbs (0.7 kg) |

Specifications are for reference only.

*At ambient temperature



WARNING: An overspeed shutdown device, independent of the APECS system, should be provided to prevent loss of engine control that may cause personal injury or equipment damage.

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