

## APECS® 0250 Series Actuators

Provides proportional fuel control for construction, industrial and agricultural equipment. 2.50" diameter spring-return actuator, pull or push models, four spring types available.



### Features:

- Pull or push actuation (Model 0250 pull, Model 0250P 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.

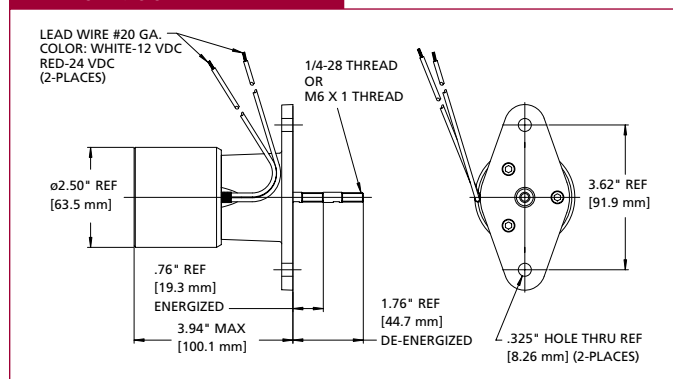
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Model No.	Voltage	Mounting Style	Plunger Type	Termination Type	Return Spring*
<b>0250</b> Pull	<b>12</b> 12 VDC	<b>A</b> Flange	<b>2</b> Ext. ¼-28 thread	<b>L</b> Lead wire	<b>S1</b>
<b>0250P</b> Push	<b>24</b> 24 VDC	<b>E</b> Base	<b>3</b> Ext. M-6 thread	<b>C</b> Connector	<b>S2</b>
					<b>S3</b>
					<b>S4</b>

### \*Spring Chart

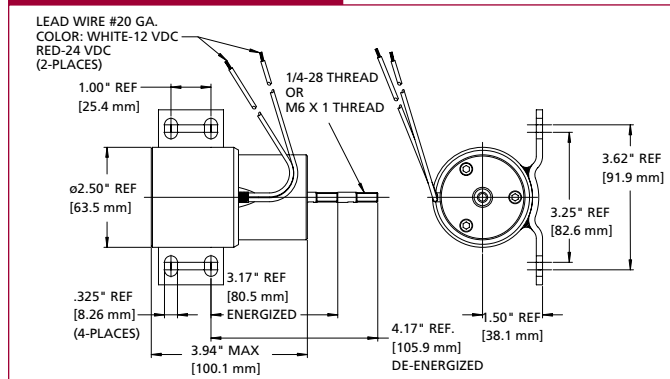
Spring Type	PART NO.	De-energized Spring Force	Energized Spring Force	Spring Rate
S1	SA-4684	1.60 lbs (7.1 N)	11.40 lbs (50.7 N)	9.80 lbs/in (0.17 kg/mm)
S2	SA-4685	0.75 lbs (3.3 N)	14.00 lbs (62.3 N)	13.25 lbs/in (0.24 kg/mm)
S3	SA-4728	0.75 lbs (3.3 N)	8.80 lbs (39.1 N)	8.05 lbs/in (0.14 kg/mm)
S4	SA-4729	0.75 lbs (3.3 N)	14.55 lbs (64.7 N)	13.80 lbs/in (0.25 kg/mm)

## 0250 / Pull Actuation

### FLANGE MOUNT

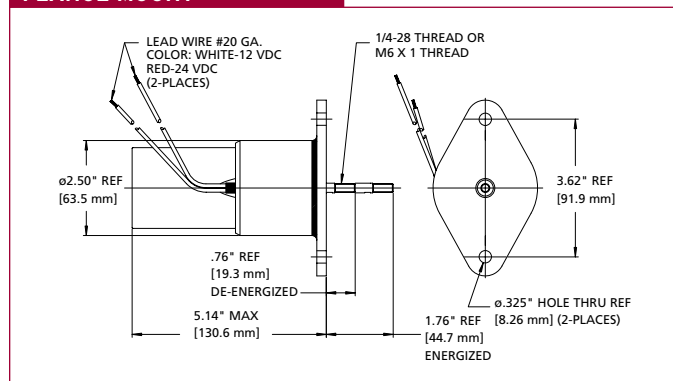


### BASE MOUNT

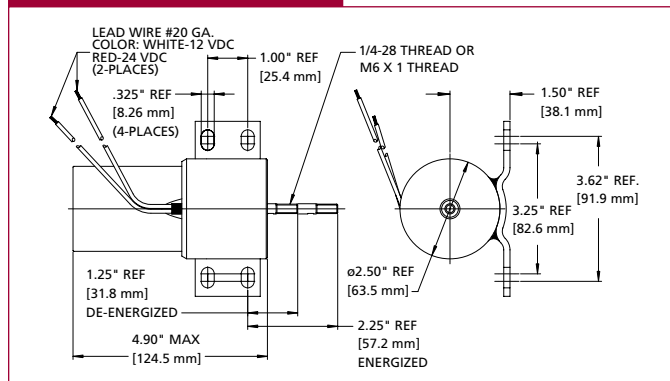


## 0250P / Push Actuation

### FLANGE MOUNT



### BASE MOUNT



### Electrical Specifications:

Stroke	1.0" Maximum (25.4 mm)
Net Force	6.0 lbs (26.7 N)
Work Rating	0.7 ft. lbs (0.95 Nm)
Nominal Rated Current	6.8 A (12 VDC) 3.5 A (24 VDC)
Response Time	65 milliseconds for 10%-90% of stroke
Resistance* (nominal)	1.76 Ohms (12 Volt) 6.84 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. 3.0 lbs (1.4 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.