

APECS® 0300 Series Actuators

Provides proportional fuel control for construction, industrial and agricultural equipment. 3.00" diameter spring-return actuator, pull or push models, three spring types available.



Features:

- Pull or push actuation (Model 0300 pull, Model 0300P 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*
0300 Pull	12 12 VDC	A Flange	2 Ext. 1/4-28 thread	L Lead wire	S1
0300P Push	24 24 VDC	E Base	3 Ext. M-6 thread	C Connector	S2
					S3

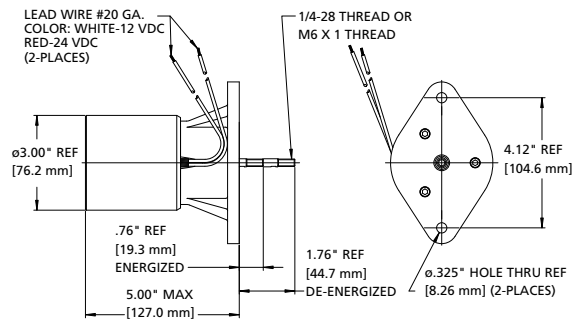
*Spring Chart

Spring Type	PART NO.	De-energized Spring Force	Energized Spring Force	Spring Rate
S1	SA-4713	4.25 lbs (18.9 N)	19.50 lbs (86.7 N)	15.25 lbs/in (0.27 kg/mm)
S2	SA-4714	1.00 lbs (4.4 N)	22.00 lbs (97.9 N)	21.00 lbs/in (0.37 kg/mm)
S3	SA-4829	2.13 lbs (9.5 N)	9.75 lbs (43.4 N)	7.62 lbs/in (0.14 kg/mm)

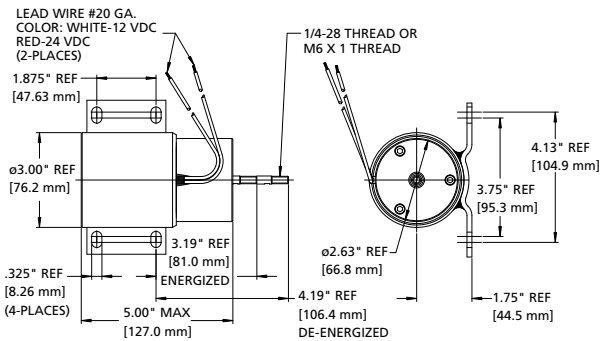
APECS® 0300 Series

0300 / Pull Actuation

FLANGE MOUNT

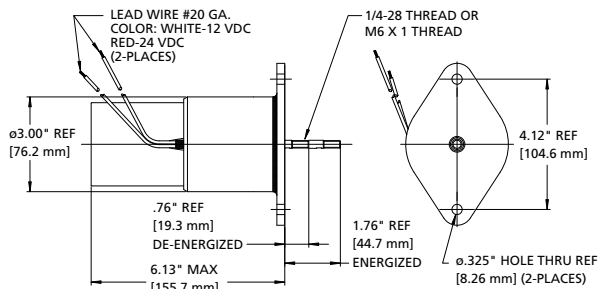


BASE MOUNT

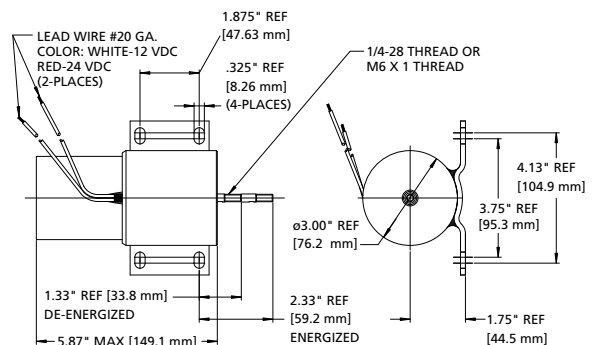


0300P / Push Actuation

FLANGE MOUNT



BASE MOUNT



Electrical Specifications:

Stroke	1.0" Maximum (25.5 mm)
Net Force	15.0 lbs (66.7 N)
Work Rating	1.3 ft. lbs (1.76 Nm)
Nominal Rated Current	6.9 A (12 VDC) 3.6 A (24 VDC)
Response Time	80 milliseconds for 10%-90% of stroke
Resistance* (nominal)	1.72 Ohms (12 Volt) 6.57 Ohms (24 Volt)

Specifications are for reference only.

*At ambient temperature

Mechanical Specifications:

Operating Temperature	-40°F to + 250°F (-40°C to + 121°C)
Vibration	15 G's
Shock	200 G's
Weight	Approx. 6.5 lbs (3.0 kg)



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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