



ENGINEERED CONTROL SOLUTIONS

Precision Governors LLC

Diesel and Carbureted Engine Rotary Actuator *Model SA Governing ROTARY ACTUATOR*

Precision Governor's Model SA rotary actuator provides high output torque for actuation of all types of engines. Robust design and only one moving part supported by precision ball bearings within a sealed case provides reliable operation and long life. Low 20 watt average power consumption provides low temperature rise allowing for higher ambient temperature operating conditions up to 125 °C. Installed on diesel, LPG, NG, or petrol engines with a PG speed controller, and a magnetic pickup to provide the speed signal, the SA Governing Actuator provides the solution for accurate engine speed control. On spark ignited engines the ignition can provide the speed signal for the controller.



Features:

- ◆ High Torque Output Produces maximum of 1 ft-lb of rotary action on 3/8-inch shaft. Rotation up to 32°, clockwise or counterclockwise.
- ◆ No Power Shutdown When actuator is de-energized, the spring loaded shaft returns to shutdown position.
- ◆ Corrosion and Moisture Resistant Rugged aluminum case and corrosion resistant plated surfaces are factory sealed.
- ◆ Actuator Response Time 0.050 seconds.
- ◆ 12-volt & 24-volt Rating.
- ◆ Compact Package Easy-to-install unit (4 x 4 x 8.5 inches).
- ◆ Zero Droop Isochronous control with zero droop over the complete speed range providing better utilization of engine rated horsepower.
- ◆ Multiple fuels Used on diesel, LPG, Natural Gas or petrol engines.

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Typical Applications:

- Forklifts
- Gen Sets
- Power Carts
- Pumps & Irrigation
- Material Handling Equipment
- Construction Equipment
- Scrubbers & Sweepers

Specifications

ELECTRICAL

<u>Power Input</u>	12 or 24 Volt DC Available
<u>12 VDC</u>	
Coil Resistance	2.3 Ohms
Maximum Continuous Current	3.9 Amps
<u>24 VDC</u>	
Coil Resistance	9.0 Ohms
Maximum Continuous Current	1.0 Amps

Connector

Terminal Strip 2 Position

MECHANICAL

<u>Dimensions:</u>	4 x 4 X 8.5 inches
<u>Mounting Pattern:</u>	7.875 X 2.50 inches, Any Attitude
<u>Stroke:</u>	Up to 32 ° clockwise or counter clockwise
<u>Materials:</u>	Corrosion resistant Aluminum and Zinc Plated Steel
<u>Weight:</u>	8.7 lbs
<u>Response Time Typical:</u>	50 msec.

ENVIRONMENTAL

<u>Operating Temperature Range:</u>	-13°F to 257°F (-25°C to 125°C)
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Ordering: *Model SA Governing Rotary Actuator*

<u>Part No.</u>	<u>Description</u>
9025 - 0	SA Actuator 12V, Generic Lever Arm
9025 - 3	SA Actuator 12V, Genie Lever Arm
9025 - 4	SA Actuator 12V, Grove Lever Arm
9025 - 24	24 Volt SA Actuator, Generic Lever Arm