



ENGINEERED CONTROL SOLUTIONS

Precision Governors LLC

Carbureted Engine Rotary Actuator *Model SR4 Governing ROTARY ACTUATOR*

Precision Governor's Model SR4 rotary actuator provides 63° of rotation 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 average power consumption provides low temperature rise allowing for higher ambient temperature operating conditions up to 125 °C. Installed on LPG, NG, or petrol engines with a PG speed controller, and a magnetic pickup to provide the speed signal, the SR4 Governing Actuator provides the solution for accurate engine speed control.



Features:

- ◆ High Torque Output Produces maximum of 0.85 in-lb of rotary action on 3/16 -inch shaft. Rotation up to 63°, clockwise or counterclockwise.
- ◆ No Power Shutdown When actuator is de-energized, the spring loaded shaft returns to shutdown position.
- ◆ Corrosion and Moisture Resistant Rugged case and corrosion resistant plated surfaces are factory sealed.
- ◆ Actuator Response Time 0.035 seconds.
- ◆ 12-volt & 24-volt Rating.
- ◆ Compact Package Easy-to-install unit (2.47 dia. x 4.17 inches).
- ◆ Zero Droop Isochronous control with zero droop over the complete speed range providing better utilization of engine rated horsepower.
- ◆ Multiple fuels Used on LPG, Natural Gas or petrol engines.

Precision Governors LLC, 2322 7th Ave. , Rockford, IL 61104
www.precisiongovernors.com
contact us at sales@precisiongovernors.com, Phone: 815.229.5300

Typical Applications:

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

Specifications

ELECTRICAL

Power Input 12 or 24 Volt DC Available

12 VDC

Coil Resistance 3.2 Ohms
Maximum Continuous Current 2.25 Amps

24 VDC

Coil Resistance 12.5 Ohms
Maximum Continuous Current 1.10 Amps

Standard:

Spade Terminal AMP P/N 2-520102-2 or equivalent
Mate:
AMP P/N 2-520184-2 or 3-350820-2 or equivalent

Options:

Deutsch P/N DT04-2P
Mate:
P/N DT06-2S

Delphi-Packard P/N 15300027
Mate:
P/N 15300002

MECHANICAL

Dimensions: 4.17 x 2.47 inches

Mounting Pattern: 40 mm Bolt Circle, 4 mm Threaded Holes @ 120°

Stroke: Up to 63° clockwise or counter clockwise

Materials: Corrosion resistant Aluminum, Zinc Plated Steel and Nylon

Weight: 1.8 lbs

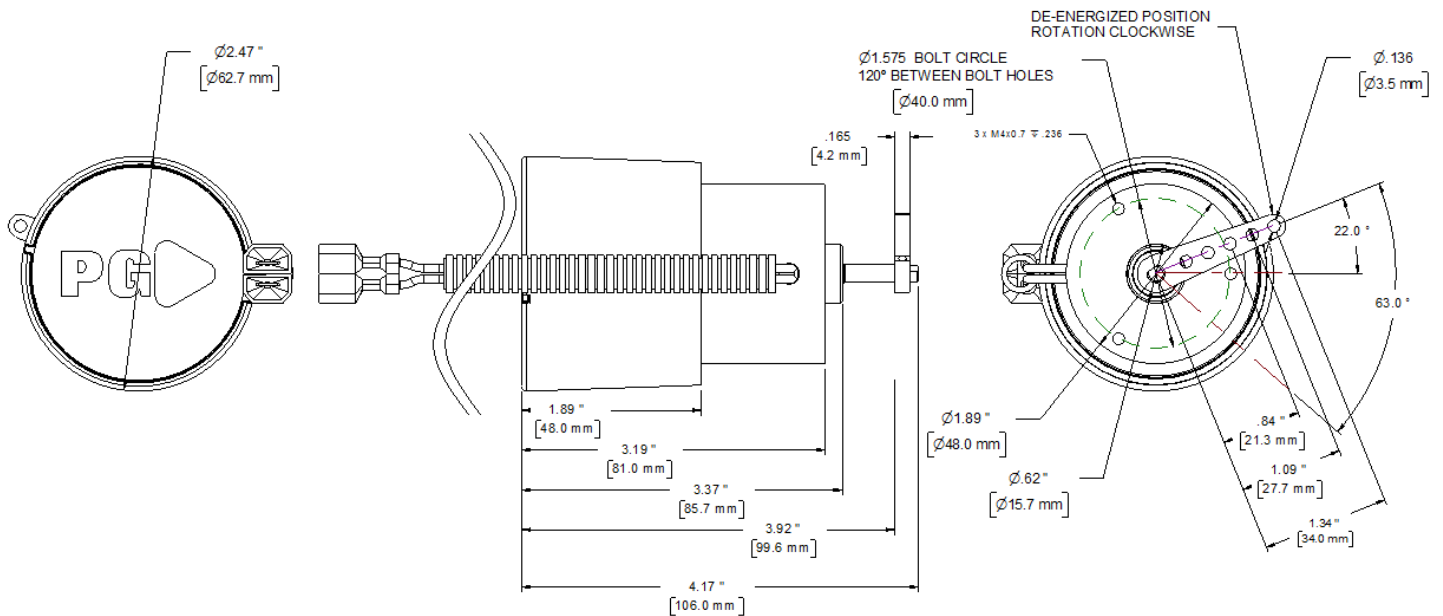
Response Time Typical: 35 msec.

ENVIRONMENTAL

Operating Temperature Range: -13°F to 257°F
(-25°C to 125°C)

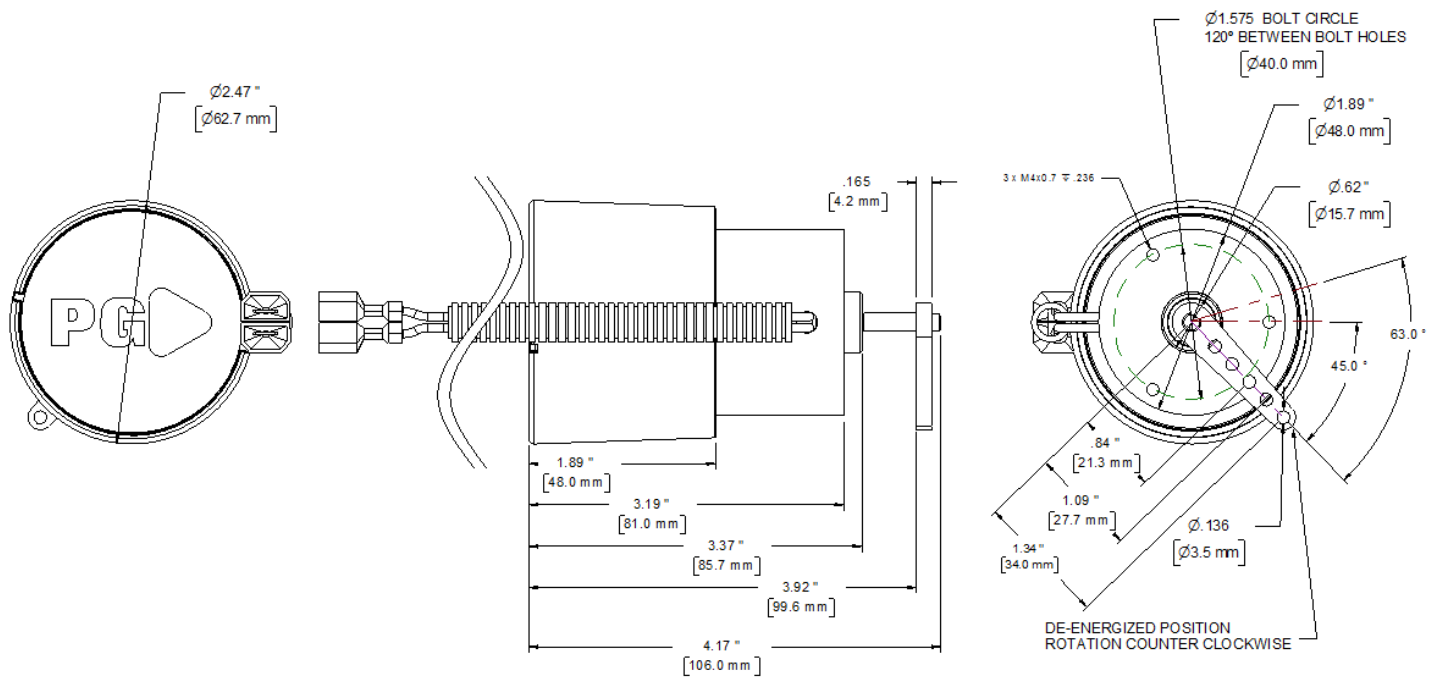
Model SR4 Governing Rotary Actuator

Clockwise Rotation
(Viewing Output Shaft End)



Model SR4 Governing Rotary Actuator

Counter Clockwise Rotation
(Viewing Output Shaft End)

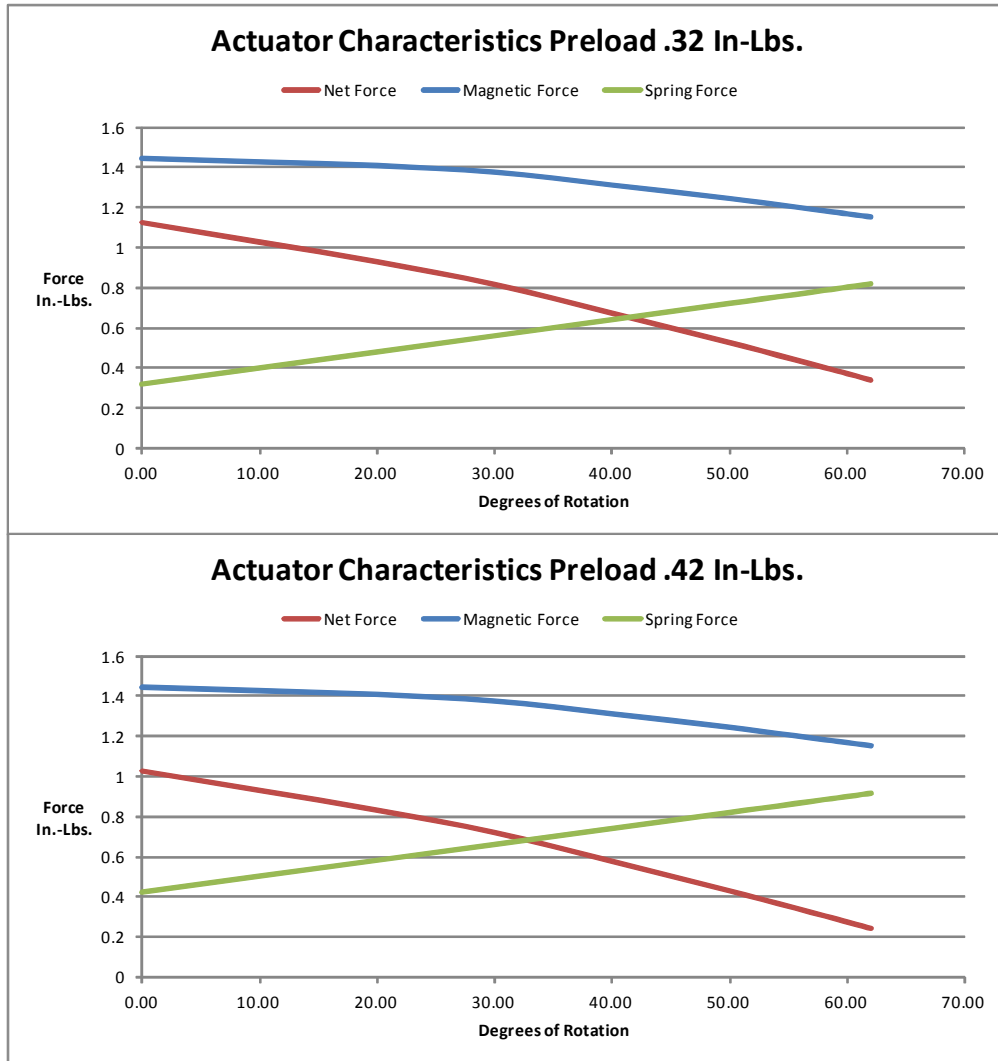


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Typical Output Characteristics +25°C



Ordering: *Model SR4 Governing Rotary Actuator*

<u>Part No.</u>	<u>Description</u>
TBD	Clockwise Rotation, 12VDC, .32 in-lbs spring return
TBD	Clockwise Rotation, 24VDC, .32 in-lbs spring return
TBD	Counter Clockwise Rotation, 12VDC, .32 in-lbs spring return
TBD	Counter Clockwise Rotation, 24VDC, .32 in-lbs spring return
9539-12	Clockwise Rotation, 12VDC, .42 in-lbs spring return
9539-24	Clockwise Rotation, 24VDC, .42 in-lbs spring return
9540-12	Counter Clockwise Rotation, 12VDC, .42 in-lbs spring return
9540-24	Counter Clockwise Rotation, 24VDC, .42 in-lbs spring return