

# **AGR-1** Rotary Actuator

Low Profile, Zero Backlash



# **FEATURES AND BENEFITS**

- Built in adjustable hardstops on output flange stops against a dowel pin imbedded in the body to prevent pinion breakage, and give accurate specific rotation requirements.
- Two large bearings, one on either side of the pinion, provides for steady output flange with high loading capacity.
- Ultra high torque to weight ratio for faster cycle times.
- Compact body design to fit into tight space applications.
- Units are permanently lubricated for non-lube air operation, allowing compliance with OSHA regulations.
- All rotary units have zero backlash at either end of rotation, this keeps the output flange against the hard stop.
- Built in adjustable flow controls allow for maximum cycle times and smooth deceleration.
- Proximity switches are available to monitor end of rotation.
- The AGR unit is fully repairable for cost savings and minimum down time.

## **SPECIFICATIONS**

Design: Rack and Pinion with Flange Hard Stop

0°-180° (Adi. +/- 5°) **Rotation Range:** Payload: 1 lb central to axis of rotation [.44 Kg]

**Torque:** 

@80 psi [5.5 BAR] 5 in/lb [.56 Nm]

**Bearing Load:** 

198 lbs [880 N] Dynamic Static 385 lbs [1620 N] **Rotation Time:** No load .1 second

**Pressure Range:** 

30-120 PSI [2-8 BAR] Low/High

**Temperature Range:** 

Low/High -20°/180°F [-28°/80°C]

Backlash: Zero

.001 concentric and **Accuracy:** 

perpendicular to axis

of rotation

Material: High Strength, Hard Coated Aluminum Alloys, Steel

7 oz Weight: [198 g]

Piston Diameter: (2x) .5 in [12.7 mm]

January 2009 - PATENTED Made in the USA

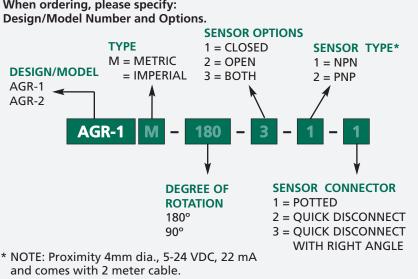
#### LOADING INFORMATION LOADING CAPACITY

Max Tensile T  Max Compressive C	<b>Static</b> 50 lbs [222 N] 250 lbs [1110 N]	<b>Dynamic</b> 12 lbs [53 N] 50 lbs [222 N]	T C Mxy
Max Moment M <sub>X</sub> Max Moment M <sub>y</sub>	100 in/lb [11.3 Nm] 100 in/lb [11.3 Nm]	[2.8 Nm] 25 in/lb	Y MZ

**LOOK!** More Technical specifications for sensors on "Sensors Accessories" page.

### **HOW TO ORDER**

When ordering, please specify: Design/Model Number and Options.



Sensor Part # SPC05, SPQ05, SNC05, SNQ05



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