

AGR-3 Rotary Actuator

Low Profile, Zero Backlash, Optional Rotary Manifold



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

Rotation Range: 0°-180° (Adj. +/- 5°)

Payload: 8 lbs central to axis of

rotation [3.6 Kg]

Torque:

@80 psi [5.5 BAR] 50 in/lb [5.6 Nm]

Bearing Load:

Dynamic 360 lbs [1600 N] Static 940 lbs [4180 N]

Rotation Time: No load .35 second

Pressure Range:

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

Temperature Range:

Low/High -20°/180°F [-28°/80°C]

Backlash: 7ero

Accuracy: .001 concentric and

perpendicular to axis

of rotation

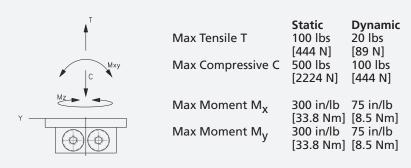
Material: High Strength, Hard Coated Aluminum Alloys, Steel

3.0 lb Weight: [1.4 kg]

Piston Diameter: (2x) 1.0 in [25.4 mm]

January 2009 - PATENTED Made in the USA

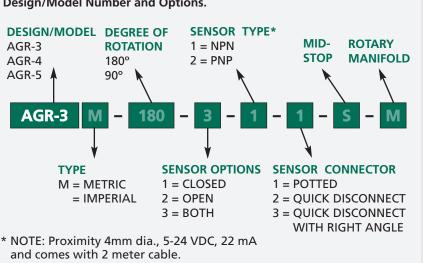
LOADING INFORMATION



WARNING! Do not exceed tooling jaw length.



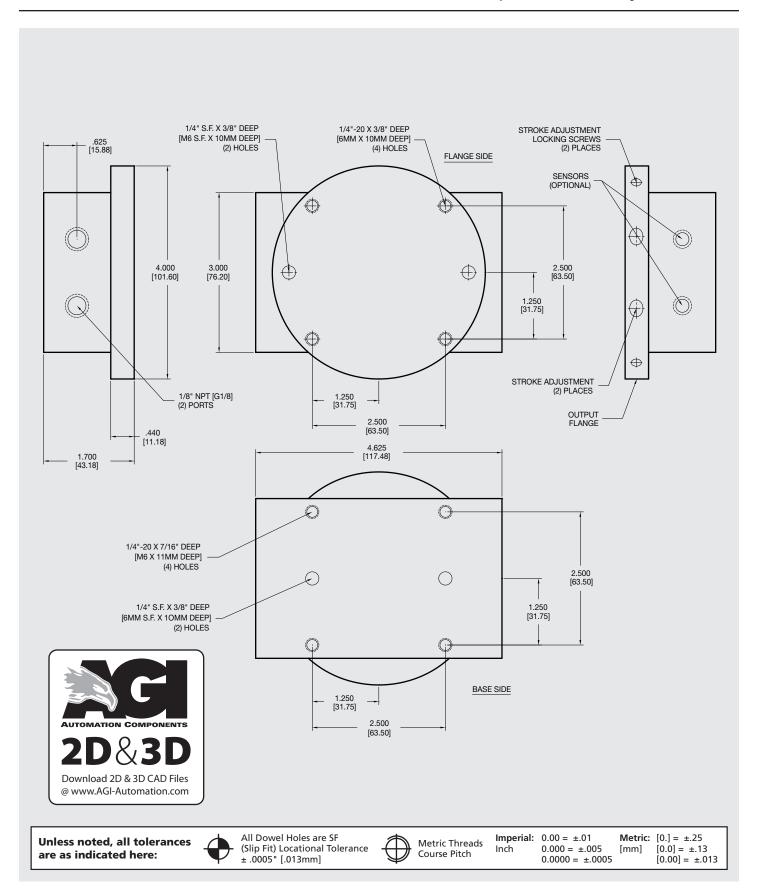
When ordering, please specify: Design/Model Number and Options.



Sensor Part # SPC05, SPQ05, SNC05, SNQ05

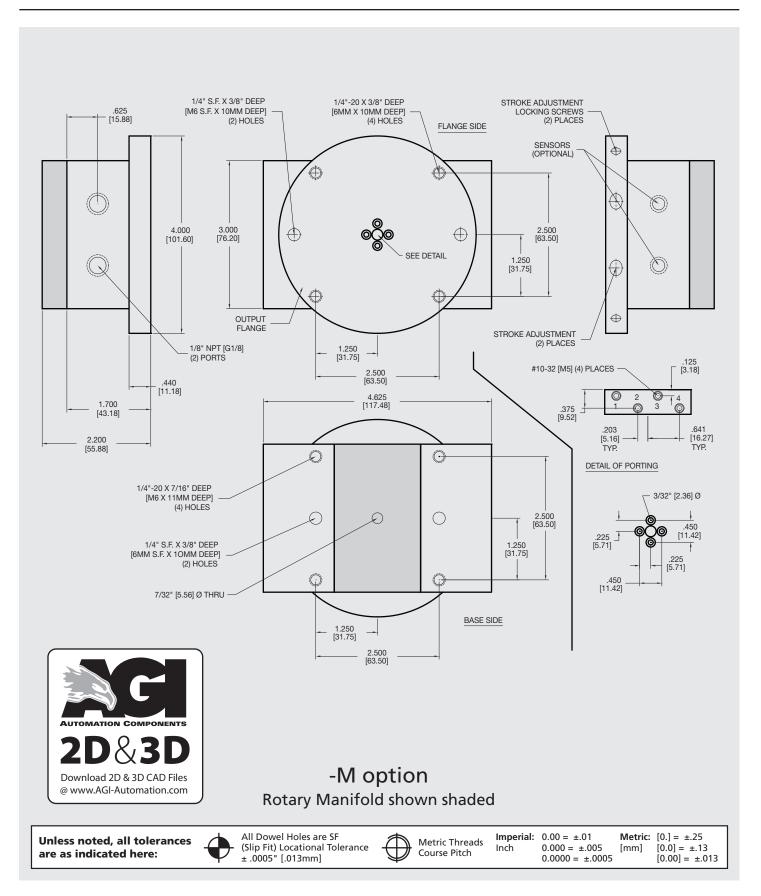


AGR-3 Rotary Actuator Low Profile, Zero Backlash, Optional Rotary Manifold



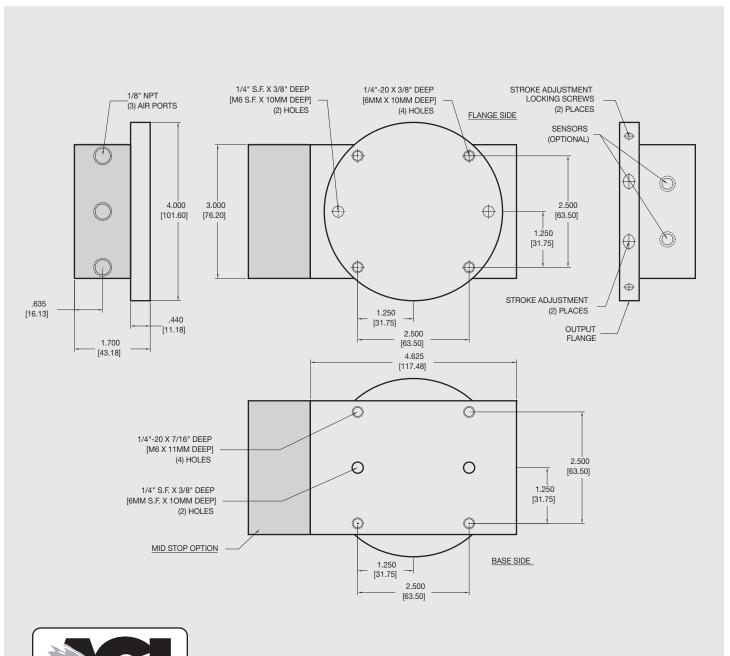


AGR-3 Rotary Actuator Low Profile, Zero Backlash, Optional Rotary Manifold





AGR-3 Rotary Actuator Low Profile, Zero Backlash, Optional Rotary Manifold





-S option Mid-Stop shown shaded

Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [.013mm]



Metric Threads Course Pitch

Imperial: $0.00 = \pm .01$ $0.000 = \pm .005$ Inch $0.0000 = \pm .0005$

Metric: $[0.] = \pm .25$ [mm] $[0.0] = \pm .13$ $[0.00] = \pm .013$