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.

LOADING INFORMATION

* NOTE: Proximity 4mm dia., 5-24 VDC, 22 mA and comes with 2 meter cable.
Sensor Part # SPC05, SPQ05, SNC05, SNQ05

LOADING CAPACITY

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Static</th>
<th>Dynamic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Tensile T</td>
<td>75 lbs [333 N]</td>
<td>20 lbs [88 N]</td>
</tr>
<tr>
<td>Max Compressive C</td>
<td>350 lbs [1550 N]</td>
<td>75 lbs [333 N]</td>
</tr>
<tr>
<td>Max Moment M_x</td>
<td>200 in/lb [22.6 Nm]</td>
<td>50 in/lb [5.6 Nm]</td>
</tr>
<tr>
<td>Max Moment M_y</td>
<td>200 in/lb [22.6 Nm]</td>
<td>50 in/lb [5.6 Nm]</td>
</tr>
</tbody>
</table>

SENSOR OPTIONS

1 = CLOSED
2 = OPEN
3 = BOTH

SENSOR TYPE

1 = NPN
2 = PNP

SENSOR CONNECTOR

1 = POTTED
2 = QUICK DISCONNECT
3 = QUICK DISCONNECT WITH RIGHT ANGLE

HOW TO ORDER

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

DESIGN/MODEL

- AGR-1
- AGR-2

SENSOR OPTIONS

1 = CLOSED
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SENSOR TYPE

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Sensor Part # SPC05, SPQ05, SNC05, SNQ05

SPECIFICATIONS

Design: Rack and Pinion with Flange Hard Stop
Rotation Range: 0°-180° (Adj. +/- 5°)
Payload: 3 lbs central to axis of rotation [1.4 Kg]
Torque: @80 psi [5.5 BAR] 17 in/lb [1.9 Nm]
Bearing Load: Dynamic 198 lbs [880 N] Static 385 lbs [1620 N]
Rotation Time: No load .2 second
Pressure Range: Low/High 30-120 PSI [2-8 BAR]
Temperature Range: Low/High -20˚/180˚F [-28˚/80˚C]
Backlash: Zero
Accuracy: .001 concentric and perpendicular to axis of rotation
Material: High Strength, Hard Coated Aluminum Alloys, Steel
Weight: 1.2 lb [1.2 kg]
Piston Diameter: (2x) .75 in [19 mm]

January 2009 - PATENTED Made in the USA
Unless noted, all tolerances are as indicated here:

| All Dowel Holes are SF (Slip Fit) Locational Tolerance | [Imperial] | [Metric] |
| - ± .005" [.013mm] | ± .01 | ± .25 |
| - ± .005 | ± .005 | ± .13 |
| - ± .0005 | ± .0005 | ± .013 |

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