FEATURES AND BENEFITS

• Grippers provide up to 180° of angular jaw travel allowing the jaws to completely retract from the work area eliminating another required axis of travel.

• High gripping force to weight ratio.

• Compact design with long, adjustable stroke.

• Jaw rotations can be adjusted from 0-90° to allow the gripper to be custom fit to each application.

• Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulation.

• Proximity sensors are available to monitor open and closed position of the jaws.

• AGA is fully field repairable for cost savings and minimum down time.

• The gripper body has two mounting surfaces with dowel pin holes to provide accurate mounting in a variety of positions.

SPECIFICATIONS

**Design:** 3-Jaw Angular

**Stroke:** 0-180° adjustable

**Gripping Force @ 80 PSI [5.5 BAR]**

<table>
<thead>
<tr>
<th>Time</th>
<th>Closing</th>
<th>Opening</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>60 lbs</td>
<td>55 lbs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>0.4 sec</th>
<th>0.4 sec</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Pressure Range:</th>
<th>Low/High</th>
<th>10-120 PSI [.7-.8 BAR]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low/High</td>
<td>-20˚/180˚F [-28˚/80˚C]</td>
<td></td>
</tr>
</tbody>
</table>

**Side Play:** ± 0.001 [.03 mm]

**Repeatability from Center:** ± 0.002 [.06 mm]

**Loading Capacity:**

<table>
<thead>
<tr>
<th>Material:</th>
<th>High Strength, Hard Coated aluminum bronze alloys, Steel</th>
</tr>
</thead>
</table>

**Weight:** 3.5 lbs [1.6 kg]

**Piston Diameter:** 1.5 in [38 mm]

January 2009 - PATENTED Made in the USA

LOADING INFORMATION

**TYPE**

M = METRIC

= IMPERIAL

**SENSOR TYPE**

1 = NPN

2 = PNP

**SENSOR CONNECTOR**

1 = POTTED

2 = QUICK DISCONNECT

3 = QUICK DISCONNECT WITH RIGHT ANGLE

**SIZE:**

23, 33, 43, 53

**SENSOR OPTIONS**

1 = CLOSED

2 = OPEN

3 = BOTH

**NOTE:** Hall Effect 4mm dia., 5-24 VDC, 22 mA and comes with 2 meter cable.

Sensor Part #: SNQ04, SNC02, SPC02, SPQ04
AGA-43  Angular Gripper
180° Three Jaw

Unless noted, all tolerances are as indicated here:

- All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [.013mm]
- Metric Threads
  - Course Pitch

<table>
<thead>
<tr>
<th>Imperial</th>
<th>Inch</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0000</td>
<td>± .005</td>
<td>± .005</td>
</tr>
<tr>
<td>0.0000</td>
<td>± .01</td>
<td>± .25</td>
</tr>
<tr>
<td>0.0000</td>
<td>± .013</td>
<td>± .013</td>
</tr>
</tbody>
</table>

AGI-43  Angular Gripper
180° Three Jaw

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