**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]
- Closing: 26 lbs [115 N]
- Opening: 22 lbs [97 N]

Time:
- Close: 0.3 sec [0.3 sec]
- Open: 0.3 sec [0.3 sec]

Pressure Range:
- Low/High 10-120 PSI [.7-8 BAR]

Temperature Range:
- Low/High -20˚/180˚F [-28˚/80˚C]

Side Play:
- ± 0.001 [.03 mm]

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

Loading Capacity:
- Max Tensile T: 60 lbs [266 N] Static
- Max Compressive C: 60 lbs [266 N] Dynamic
- Max Moment M_x: 90 in/lb [10 Nm] Static
- Max Moment M_y: 140 in/lb [15.8 Nm] Dynamic
- Max Moment M_z: 90 in/lb [10 Nm] Static

Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 2 lbs [1 kg]

Piston Diameter: 1.125 in [28.5 mm]

January 2009 - PATENTED Made in the USA

**HOLDING FORCES CHART**

**LOADING INFORMATION**

**HOW TO ORDER**

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

**SIZE:**

- 23, 33, 43, 53

**TYPE**

- M = METRIC
- = IMPERIAL

**SENSOR OPTIONS**

- 1 = CLOSED
- 2 = OPEN
- 3 = BOTH

**SENSOR CONNECTOR**

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

SENSOR Part #: SNQ04, SNC02, SPC02, SPQ04

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

American Grippers, Inc.
171 Spring Hill Road, Trumbull, CT 06611
Tel: 203-459-8345 • Fax: 203-452-5943
info@Agi-Automation.com • www.Agi-Automation.com
AGA-33 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

<table>
<thead>
<tr>
<th>Course Pitch</th>
<th>Imperial:</th>
<th>Metric:</th>
</tr>
</thead>
<tbody>
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<td></td>
<td>0.00 = ± .01</td>
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<tr>
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<td>0.000 = ± .005</td>
<td>[0.000] = ±.013</td>
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</tbody>
</table>

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