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: 200 lbs [888 N]
Opening: 170 lbs [758 N]

Time:
Close: 0.4 sec [0.4 sec]
Open: 0.4 sec [0.4 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 [0.03 mm]

Repeatability from Center:
± 0.002 [0.06 mm]

Loading Capacity:
Max Tensile $T_x$: 1200 lbs [5330 N]
Max Compressive $C_x$: 1200 lbs [5330 N]
Max Moment $M_x$: 930 in/lb [105 Nm]
Max Moment $M_y$: 880 in/lb [99.5 Nm]
Max Moment $M_z$: 880 in/lb [99.5 Nm]

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

Weight: 8 lbs [3.6 kg]

Piston Diameter: 2.25 in [57.2 mm]

January 2009 - PATENTED Made in the USA

LOADING INFORMATION

LOADING INFORMATION

HOLDING FORCES CHART

WARNING! Do not exceed tooling jaw length. See Chart above.

LOADING INFORMATION

HOW TO ORDER

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

SIZE:
23, 33, 43, 53

TYPE:
M = METRIC
1 = NPN
2 = PNP

SENSOR OPTIONS:
1 = CLOSED
2 = OPEN
3 = BOTH

SENSOR CONNECTOR:
1 = POTTED
2 = QUICK DISCONNECT
3 = QUICK DISCONNECT WITH RIGHT ANGLE

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

Sensor Part #: SNQ04, SNC02, SPC02, SPQ04
AGA-53 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>Imperial</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>[mm]</td>
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<tr>
<td>0.00 = ± .01</td>
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</tr>
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<td>0.000 = ± .005</td>
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<td>0.0000 = ± .0005</td>
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</tbody>
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info@Agi-Automation.com  www.Agi-Automation.com