**AGW-625-2 Parallel Gripper**
Wide-Body, Synchronous/Non-Synchronous

### FEATURES AND BENEFITS
- Ultra high gripping force to weight ratio due to four opposing independent pistons that direct power to the jaws.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Pistons seals are quad ring type for long service life.
- Large jaw support shafts are guided through the full width of the main body.
- Proximity switches are available to monitor open and closed position of the jaws.
- The AGW Series is fully field repairable for cost savings and minimum down time.
- Non-synchronous versions allow the gripper’s jaws to comply to the part’s centerline versus the gripper’s centerline.

### SPECIFICATIONS
**Design:** Parallel, Double Acting, Synchronized Jaws

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stroke</td>
<td>2 in [50.8 mm]</td>
</tr>
<tr>
<td>Gripping Force @ 80 PSI Per Jaw [5.5 BAR]</td>
<td>130 lbs [578 N]</td>
</tr>
<tr>
<td>Closing</td>
<td>132 lbs [587 N]</td>
</tr>
<tr>
<td>Time</td>
<td></td>
</tr>
<tr>
<td>Close</td>
<td>0.3 sec [0.3 sec]</td>
</tr>
<tr>
<td>Open</td>
<td>0.3 sec [0.3 sec]</td>
</tr>
<tr>
<td>Pressure Range:</td>
<td></td>
</tr>
<tr>
<td>Low/High</td>
<td>20-120 PSI [1.7-8 BAR]</td>
</tr>
<tr>
<td>Temperature Range:</td>
<td></td>
</tr>
<tr>
<td>Low/High</td>
<td>-20˚/180˚F [-28˚/80˚C]</td>
</tr>
<tr>
<td>Side Play</td>
<td>± 0.001 [.03 mm]</td>
</tr>
<tr>
<td>Repeatability from Center:</td>
<td>± 0.002 [.06 mm]</td>
</tr>
<tr>
<td>Loading Capacity:</td>
<td></td>
</tr>
<tr>
<td>Max Tensile T</td>
<td>1300 lbs [5700 N]</td>
</tr>
<tr>
<td>Max Compressive C</td>
<td>1300 lbs [5700 N]</td>
</tr>
<tr>
<td>Max Moment MX</td>
<td>1100 in/lb [124 Nm]</td>
</tr>
<tr>
<td>Max Moment MY</td>
<td>1500 in/lb [170 Nm]</td>
</tr>
<tr>
<td>Max Moment MZ</td>
<td>1100 in/lb [124 Nm]</td>
</tr>
<tr>
<td>Material: High Strength, Hard Coated aluminum bronze alloys, Steel</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>6.3 lbs [2.9 kg]</td>
</tr>
<tr>
<td>Piston Diameter</td>
<td>1.625 in [41.3 mm]</td>
</tr>
</tbody>
</table>

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### HOLDING FORCES CHART

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

### LOADING INFORMATION

**LOADING INFORMATION**

**WARNING!** Do not exceed tooling jaw length.

**LOADING INFORMATION**

**LOOK!** More Technical specifications for sensors on “Sensors Accessories” page.

### HOW TO ORDER

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

**DESIGN/MODEL**
- AGW-250
- AGW-375-1
- AGW-375-2
- AGW-375-4
- AGW-500-1
- AGW-500-2
- AGW-500-4
- AGW-625-2
- AGW-625-4
- AGW-625-6

**SENSOR OPTIONS**
- 1 = CLOSED
- 2 = OPEN
- 3 = BOTH

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

**SENSOR TYPE**
- M = METRIC
- N = IMPERIAL

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

Sensor Part # SNQ04, SNC04, SPC04, SPQ04

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info@AGI-Automation.com  www.AGI-Automation.com
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 = ± .01
  0.000 = ± .005
  0.0000 = ± .0005
- Metric: [0.] = ± .25
  [0.0] = ± .13
  [0.00] = ± .013