AGW-625-4 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.
- 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>4 in [101.6 mm]</td>
</tr>
<tr>
<td>Gripping Force @ 80 PSI Per Jaw [5.5 BAR]</td>
<td>130 lbs [578 N] Closing, 132 lbs [587 N] Opening</td>
</tr>
<tr>
<td>Time</td>
<td>Close: 0.3 sec [0.3 sec] Opening: 0.3 sec [0.3 sec]</td>
</tr>
<tr>
<td>Pressure Range:</td>
<td>Low/High 20-120 PSI [1.7-8 BAR]</td>
</tr>
<tr>
<td>Temperature Range:</td>
<td>Low/High -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>Static 1300 lbs [5700 N], Dynamic 150 lbs [667 N]</td>
</tr>
<tr>
<td>Max Compressive C</td>
<td>1300 lbs [5700 N], 150 lbs [667 N]</td>
</tr>
<tr>
<td>Max Moment M_x</td>
<td>1100 in/lb [124 Nm], 120 in/lb [13 Nm]</td>
</tr>
<tr>
<td>Max Moment M_y</td>
<td>1500 in/lb [170 Nm], 130 in/lb [14.7 Nm]</td>
</tr>
<tr>
<td>Max Moment M_z</td>
<td>1100 in/lb [124 Nm], 120 in/lb [13 Nm]</td>
</tr>
<tr>
<td>Material:</td>
<td>High Strength, Hard Coated aluminum bronze alloys, Steel</td>
</tr>
<tr>
<td>Weight</td>
<td>8 lbs [3.6 kg]</td>
</tr>
<tr>
<td>Piston Diameter</td>
<td>1.625 in [41.3 mm]</td>
</tr>
<tr>
<td>January 2009 - PATENTED</td>
<td>Made in the USA</td>
</tr>
</tbody>
</table>

LOADING INFORMATION

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

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WARNING! Do not exceed tooling jaw length.

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
1 = NPN
2 = PNP

NON-SYNCHRONIZED OPTION

SENSOR OPTIONS

SENSOR TYPE

SENSOR CONNECTOR

NON-SYNCHRONIZED OPTION

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

Sensor Part # SNQ04, SNC04, SPC04, SPQ04

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
Unless noted, all tolerances are as indicated here:

- All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [.013mm]
- Metric Threads:
  - Course Pitch: 0.000 = ±0.005
  - Imperial:
    - Inch: 0.00 = ±.01
    - Metric: [mm] 0.00 = ±.013

[View 2D & 3D CAD Files @ www.AGI-Automation.com]