**SPECIFICATIONS**

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

**Stroke:** 2.5 in [63.5 mm]

**Gripping Force @ 80 PSI Per Jaw [5.5 BAR]**
- Closing: 84 lbs [373 N]
- Opening: 86 lbs [383 N]

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

**Pressure Range:**
- Low/High: 20-120 PSI [1.7-8 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:**
- Static:
  - Max Tensile T: 500 lbs [2220 N]
  - Max Compressive C: 500 lbs [2220 N]
- Dynamic:
  - Max Moment \( M_x \): 500 in/lb [56.5 Nm]
  - Max Moment \( M_y \): 750 in/lb [85 Nm]
  - Max Moment \( M_z \): 500 in/lb [56.5 Nm]

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

**Weight:** 4 lbs [1.8 kg]

**Piston Diameter:** .875 in x 4 [22.3 mm]

**January 2009 - PATENTED** Made in the USA

---

**HOLDING FORCES CHART**

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

**LOADING INFORMATION**

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

---

**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.

---

**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

**SENSOR PART #:** SNQ04, SNC04, SPC04, SPQ04

*NOTE: Proximity 4mm dia., 5-24 VDC, 22 mA and comes with 2 meter cable.*
AGW-500-2 Parallel Gripper
Wide-Body, Synchronous/Non-Synchronous

Unless noted, all tolerances are as indicated here:

- All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [.013mm]
- Metric Threads
  - Course Pitch
  - Imperial: \[0.00 = \pm .01\]
  - Inch: \[0.000 = \pm .005\]
  - Metric: \[0.0 = \pm .13\]

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