AGW-375-4 Parallel Gripper
Wide-Body, Synchronous/Non-Synchronous

**SPECIFICATIONS**

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

**Stroke:** 4 in [101.6 mm]

**Gripping Force @ 80 PSI Per Jaw [5.5 BAR]**
- Closing: 36 lbs [160 N]
- Opening: 38 lbs [170 N]

**Time:**
- Close: 0.6 sec [0.6 sec]
- Open: 0.6 sec [0.6 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 [.03 mm]

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

**Loading Capacity:**
- Max Tensile $T$
  - Static: 100 lbs [445 N]
  - Dynamic: 20 lbs [89 N]
- Max Compressive $C$
  - Static: 100 lbs [445 N]
  - Dynamic: 20 lbs [89 N]
- Max Moment $M_x$
  - 175 in/lb [19.5 Nm]
  - 35 in/lb [4 Nm]
- Max Moment $M_y$
  - 250 in/lb [28 Nm]
  - 50 in/lb [5.6Nm]
- Max Moment $M_z$
  - 175 in/lb [19.5 Nm]
  - 35 in/lb [4 Nm]

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

**Weight:** 3.2 lbs [1.5 kg]

**Piston Diameter:** .625 in x 4 [15.8 mm]

January 2009 - PATENTED Made in the USA

**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.

**LOADING INFORMATION**

**HOLDING FORCES CHART**

**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**

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

Sensor Part # SNQ04, SNC04, SPC04, SPQ04
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: 0.0 = ± .25
  0.00 = ± .13
  0.000 = ± .013