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

| Stroke: | 6 in [152.4 mm] |
| Gripping Force @ 80 PSI Per Jaw [5.5 BAR] | |
| Closing: | 130 lbs [578 N] |
| Opening: | 132 lbs [587 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 [.03 mm] |
| Repeatability from Center: | ± 0.002 [.06 mm] |
| Loading Capacity: | |
| Max Tensile T | 1300 lbs [5700 N] |
| Max Compressive C | 1300 lbs [5700 N] |
| Max Moment Mx | 1100 in/lb [124 Nm] |
| Max Moment My | 1500 in/lb [170 Nm] |
| Max Moment Mz | 1100 in/lb [124 Nm] |
| Material: High Strength, Hard Coated aluminum bronze alloys, Steel |
| Weight: | 9.7 lbs [4.4 kg] |
| Piston Diameter: | 1.625 in [41.3 mm] |

HOLDING FORCES CHART

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

LOADING INFORMATION

LOADING INFORMATION

SENSOR OPTIONS

1 = CLOSED
2 = OPEN
3 = BOTH

SENSOR CONNECTOR

1 = POTTED
2 = QUICK DISCONNECT
3 = QUICK DISCONNECT WITH RIGHT ANGLE

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 TYPE*

1 = NPN
2 = PNP

SENSOR OPTIONS

1 = CLOSED
2 = OPEN
3 = BOTH

NON-SYNCHRONIZED OPTION

M = METRIC

= IMPERIAL

* 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

Imperial: 0.00 = ±.01
0.000 = ±.005
0.0000 = ±.0005

Metric: [0] = ±.25
[0.0] = ±.13
[0.00] = ±.013

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