AGW-250 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
Stroke: .75 in [19 mm]
Thrust Force @ 80 PSI [5.5 BAR]
Closing: 20 lbs [89 N]
Opening: 26 lbs [115 N]
Time:
Close: 0.2 sec [0.2 sec]
Open: 0.2 sec [0.2 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 50 lbs [230 N]
Dynamic 10 lbs [44.5 N]
Max Compressive C
Static 50 lbs [230 N]
Dynamic 10 lbs [44.5 N]
Max Moment Mx 100 in/lb [11.3 Nm]
Max Moment My 150 in/lb [17 Nm]
Max Moment Mz 100 in/lb [11.3 Nm]
Material: High Strength, Hard Coated aluminum bronze alloys, Steel
Weight: 11 oz [311 g]
Piston Diameter: .500 in x 4 [12.7 mm]

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

LOADING INFORMATION

SENSOR OPTIONS
1 = CLOSED
2 = OPEN
3 = BOTH

SENSOR TYPE*
1 = NPN
2 = PNP

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

SENSOR PART #
SNQ04, SNC04, SPC04, SPQ04

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

LOADING FORCES CHART

HOLDING FORCES CHART

FEATURES AND BENEFITS

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

Sensor Part # SNQ04, SNC04, SPC04, SPQ04

Non-Synchronized Option

Type
M = METRIC

Type
M = IMPERIAL

Non-Synchronized Option

Type
M = METRIC

Type
M = IMPERIAL
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Unless noted, all tolerances are as indicated here:

**All Dowel Holes are SF** (Slip Fit) Locational Tolerance ± .0005" [.013mm]

**Metric Threads**
Course Pitch

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<th>Imperial (Inch)</th>
<th>Metric (mm)</th>
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**2D & 3D**
Download 2D & 3D CAD Files
@ www.AGI-Automation.com