

AGW-250-1 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 -201 180 F [-281 80 ℃]

Side Play: ± 0.001 [.03 mm]

Repeatability

from Center: ± 0.002 [.06 mm]

Loading Capacity:

 Max Tensile T
 50 lbs
 10 lbs

 [230 N]
 [44.5 N]

 Max Compressive C
 50 lbs
 10 lbs

[230 N] [44.5 N]
Max Moment M_v 100 in/lb 20 in/lb

[11.3 Nm] [2.3 Nm]
Max Moment My

150 in/lb 30 in/lb
[17 Nm] [3.4Nm]
Max Moment Mz

100 in/lb 20 in/lb

[11.3 Nm] [2.3 Nm]

Material: High Strength, Hard Coated

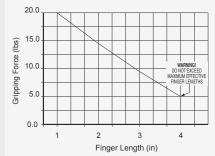
aluminum bronze alloys, Steel

 Weight:
 11 oz [311 g]

 Piston Diameter:
 .500 in x 4 [12.7 mm]

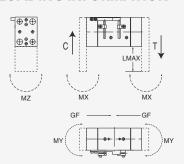
January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



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

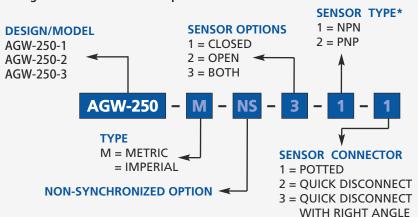
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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



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

Sensor Part # SNQ04, SNC04, SPC04, SPQ04



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