FEATURES AND BENEFITS

- Jaws are T-Slot bearing supported to prevent jaw breakage and offer superior load bearing performance.
- Rugged rack and pinion synchronizing.
- High gripping force to weight ratio.
- Compact design with long stroke.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Hall effect sensors are available to monitor open and closed position of the jaws.
- AGLP is fully field repairable for cost savings and minimum down time.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 0.25 in [6.4 mm]

Gripping Force @ 80 PSI [5.5 BAR]
Closing: 10 lbs [44 N]
Opening: 10 lbs [44 N]

Time:
Close: 0.12 sec [0.12 sec]
Open: 0.12 sec [0.12 sec]

Pressure Range:
Low/High 10-100 PSI [.7-.7 BAR]

Temperature Range:
Low/High -20˚/180˚F [-28˚/80˚C]

Side Play: ± 0.001 [.03 mm]

Loading Capacity:
Max Tensile T Static 65 lbs [289 N] Dynamic 20 lbs [89 N]
Max Compressive C Static 65 lbs [289 N] Dynamic 20 lbs [89 N]
Max Moment MX 60 in/lb [6.7 Nm] 15 in/lb [1.6 Nm]
Max Moment MY 60 in/lb [6.7 Nm] 20 in/lb [2.2 Nm]
Max Moment MZ 60 in/lb [6.7 Nm] 15 in/lb [1.6 Nm]

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

Weight: 2 oz [56 g]
Piston Diameter: .625 in [15.8 mm]

January 2009 - PATENTED  Made in the USA

HOLDING FORCES CHART

LOADING INFORMATION

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


HOW TO ORDER

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

SIZE: 1, 2, 3, 4

TYPE
M = METRIC
= IMPERIAL

SENSOR TYPE*
1 = NPN
2 = PNP

SENSOR CONNECTOR
1 = POTTED
2 = QUICK DISCONNECT

* NOTE: Hall Effect 4mm dia., 5-24 VDC, 22 mA and comes with 2 meter cable or quick disc.

Sensor Part #: SHN01, SHNQ3, SHP01, SHPQ3

SENSOR OPTIONS
1 = CLOSED
2 = OPEN
3 = BOTH

DESIGN/MODEL
AGLP 1 1 3 1 1

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
AGLP-1 Parallel Gripper
T-Slot Bearing Series, Low Profile

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
  - Inch: 0.000 = ±.005
  - Metric: [0.] = ±.13
  - [0.0] = ±.013

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