AGLP-4 Parallel Gripper
T-Slot Bearing Series, Low Profile

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: 1.00 in [25.4 mm]
Gripping Force @ 80 PSI [5.5 BAR]
Closing: 14 lbs [62 N]
Opening: 14 lbs [62 N]
Time:
Close: 0.12 sec [0.12 sec]
Open: 0.12 sec [0.12 sec]
Pressure Range:
Low/High 10-120 PSI [0.7-7 BAR]
Temperature Range:
Low/High -20˚/180˚F [-28˚/80˚C]
Side Play: ± 0.001 [0.3 mm]
Loading Capacity:
Max Tensile T [Static]
120 lbs [533 N]
Max Compressive C [Dynamic]
120 lbs [533 N]
Max Moment Mx
75 in/lb [8.5 Nm]
Max Moment My
100 in/lb [11.3 Nm]
Max Moment Mz
75 in/lb [8.5 Nm]
Material: High Strength, Hard Coated aluminum bronze alloys, Steel
Weight: 5 oz [142 g]
Piston Diameter: 0.700 in [17.7 mm]

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HOLDING FORCES CHART

LOADING INFORMATION

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

SENSOR OPTIONS
1 = CLOSED
2 = OPEN
3 = BOTH

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

SPECS

DESIGN/MODEL
AGLP

SIZE: 1, 2, 3, 4

TYPE
M = METRIC
= IMPERIAL

SENSOR TYPE*
1 = NPN
2 = PNP
Unless noted, all tolerances are as indicated here:

- All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [.013mm]
- Metric Threads
  - Course Pitch
  - Inch: 0.00 = ±.01
  - 0.000 = ±.005
  - Metric: [mm]: [0.] = ±.25

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