AGPT-1000 Parallel Gripper
T-Slot Bearing Series

FEATURES AND BENEFITS

- Jaws are T-Slot bearing supported to prevent jaw breakage and offer superior load bearing performance.
- High gripping force to weight ratio.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Proximity switches are available to monitor open and closed position of the jaws.
- AGPT is fully field repairable for cost savings and minimum down time.
- Linkage is guided in the body for precise center repeatability.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 1.0 in [25.4 mm]

Gripping Force Per Jaw @ 80 PSI [5.5 BAR]
Closing: 15 PSI [67 N]
Opening: 17 PSI [75 N]

Time:
Close: 0.20 sec [0.20 sec]
Open: 0.20 sec [0.20 sec]

Pressure Range:
Low/High: 10-120 PSI [-7-8 BAR]

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

Side Play: ± 0.001 [.03 mm]
Repeatability from Center: ± 0.001 [.03 mm]

Loading Capacity:
Max Tensile T
Static 60 lbs [266 N]
Dynamic 20 lbs [88.9 N]
Max Compressive C
Static 60 lbs [266 N]
Dynamic 20 lbs [88.9 N]
Max Moment Mx
100 in/lb [11.3 Nm]
Max Moment My
120 in/lb [13.5 Nm]
Max Moment Mz
100 in/lb [11.3 Nm]

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

Weight: 8 oz [226 g]
Piston Diameter: 0.75 in [19 mm]

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LOADING INFORMATION

HOLDING FORCES CHART

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

LOADING INFORMATION


HOW TO ORDER

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

DESIGN/MODEL
AGPT-500
AGPT-1000
AGPT-1125

SENSOR TYPE*
1 = NPN
2 = PNP

SENSOR OPTIONS
1 = CLOSED
2 = OPEN
3 = BOTH

AGPT-1000

SENSOR TYPE

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

Sensor Part # SNC04, SPC04
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  0.000 = ±.005
Metric: [0] = ±.25  [0.0] = ±.13

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