AGPS-2-1 Parallel Gripper
Single Finger, One Fixed Jaw

FEATURES AND BENEFITS
- T-Slot bearing support for the carriage and end plate offers superior load bearing performance throughout the stoke.
- Standard built-in stroke adjustment and stroke lock for precise, repetitive operation.
- Compact, lightweight unit with built-in cylinder.
- Piston seals are U-CUP type for long service life.
- Hall Effect sensors are available to monitor stroke position.
- Multiple mounting surfaces on the body and endplate with threaded and counterbored holes for easy mounting choices.
- Adjustable stoke on extend and retract.

SPECIFICATIONS
Design: Built-in air cylinder
T-slot slide

Stroke: 0.5 in [12.7 mm]

Thrust Force @ 80 PSI [5.5 BAR]
Extended: 35 lbs [155 N]
Retract: 33 lbs [146 N]

Recommended Speed: 2-12 in/sec [0.5-.3m/sec]

Pressure Range: Low/High 20-120 PSI [1.4-8 BAR]

Temperature Range: Low/High -20˚/150˚F [-28˚/80˚C]

Side Play: ± 0.001 [.03 mm]

Maximum Payload: 7 lbs [3.2 kg]

Material: High Strength, Aluminum Alloys, Bronze

Weight: 4.2 oz [120 g]
Piston Diameter: .750 in [19 mm]

January 2008 - PATENTED Made in the USA

MAXIMUM FORCES & MOMENTS

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<thead>
<tr>
<th></th>
<th>Static</th>
<th>Dynamic</th>
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<tbody>
<tr>
<td>Max Tensile T</td>
<td>80 lbs</td>
<td>34 lbs</td>
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<tr>
<td>Max Compressive C</td>
<td>80 lbs</td>
<td>34 lbs</td>
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<tr>
<td>Max Moment M_x</td>
<td>35 in/lb</td>
<td>19 in/lb</td>
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<tr>
<td>Max Moment M_y</td>
<td>35 in/lb</td>
<td>19 in/lb</td>
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<tr>
<td>Max Moment M_z</td>
<td>35 in/lb</td>
<td>19 in/lb</td>
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HOW TO ORDER
When ordering, please specify: Design/Model Number and Options.

SENSOR TYPE
1 = NPN
2 = PNP

SENSOR OPTIONS*
1 = LEFT
2 = RIGHT
3 = BOTH

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

* NOTE: Hall Effect sensors are hard wired with 20" pigtail.
Sensor Part # SHN01, SHP01, SHNQ3, SHPQ3

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
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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
  - Imperial: 0.00 = ± .01 0.000 = ± .005
  - Metric: [0.] = ± .25 [0.0] = ± .13

AGPS-2-1 NOTES:
1) STROKE = .500
2) ALL DIMENSIONS TYPICAL EACH END PLATE

AGI Automation Components
Download 2D & 3D CAD Files @ www.AGI-Automation.com

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