AGPS-1-2 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: 1 inch [25.4 mm]

Thrust Force @ 80 PSI [5.5 BAR]
Extended: 15 lbs [66.7 N]
Retract: 13 lbs [57.8 N]

Recommended Speed: 2-12 in/sec [0.5-.3 m/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: 3.2 oz [90 g]

Piston Diameter: .50 in [12.7 mm]

January 2008 - PATENTED Made in the USA

MAXIMUM FORCES & MOMENTS

<table>
<thead>
<tr>
<th>Force Type</th>
<th>Static</th>
<th>Dynamic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Tensile T</td>
<td>75 lbs</td>
<td>32 lbs</td>
</tr>
<tr>
<td>Max Compressive C</td>
<td>75 lbs</td>
<td>32 lbs</td>
</tr>
<tr>
<td>Max Moment Mx</td>
<td>60 in/lb [6.7 Nm]</td>
<td>30 in/lb [3.4 Nm]</td>
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<tr>
<td>Max Moment My</td>
<td>60 in/lb [6.7 Nm]</td>
<td>30 in/lb [3.4 Nm]</td>
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<tr>
<td>Max Moment Mz</td>
<td>60 in/lb [6.7 Nm]</td>
<td>30 in/lb [3.4 Nm]</td>
</tr>
</tbody>
</table>

HOW TO ORDER

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

**DESIGN/MODEL**
- AGPS-1-1
- AGPS-1-2
- AGPS-1-3
- AGPS-1-4

**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 – Potted or Quick disconnect.
Sensor Part #: SHN01, SHP01, SHNQ3, SHPQ3
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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 = ±0.01 0.000 = ±0.005
Metric: [mm] [0,] = ±0.25 [0,0] = ±0.13
                                      [0,00] = ±0.013