FEATURES AND BENEFITS

- Floating piston rod coupling eliminates cylinder binding.
- Compact, lightweight unit with replaceable air-cylinder.
- Units are permanently lubricated.
- Optional stroke adjustment for precise, repetitive operation.
- Proximity switches are available to monitor end of stroke position of the body.
- Optional shock absorbers can be ordered for smooth operation.
- Aluminum body end blocks contain tapped holes and dowel pin holes for precision mounting or fixturing.
- Standard end plate to stop shaft vibrations.

SPECIFICATIONS

Design: Replaceable air cylinder, linear bearings on steel hardened shafts

Stroke: 4 in max. (1" increments) [100 mm] [25.4 mm]

Thrust Force @ 80 PSI [5.5 BAR] 30 lbs (multiply force factor by input pressure in PSI)

Extended: 20 lbs [89 N]
Retract: 19 lbs [85 N]

Recommended Speed: 1-40 in/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]

Deflection: See Chart

Maximum Payload: 5 lbs [2.2 kg]

Material: High Strength, Aluminum Alloys, Steel Components

Weight: 0.50 lbs + 0.05 lb/in [0.23 kg + 0.86 g/mm]

Shaft Diameter: 3/16 in [5 mm]

Piston Diameter: 9/16 in [14 mm]

January 2009 - PATENTED Made in the USA

PAYLOAD FORCES

WARNING! Do not exceed mounting screw depth.


HOW TO ORDER

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

DESIGN/MODEL AGT-2

SENSOR OPTIONS
1 = LEFT 2 = RIGHT 3 = BOTH

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

TYPE
M = METRIC = IMPERIAL

SENSOR TYPE*
1 = NPN 2 = PNP

* NOTE: Proximity sensors are 8 mm diam., 12-30 VDC, 50 mA and come with 2 meter cable.

Sensor Part # SNC08, SNQ08, SPC08, SPQ08
AGT-2 Powered Slide
Linear Thruster

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

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 0.0000 = ± .0005

Metric: [mm] [0.01] = ± .25 [0.001] = ± .13 [0.0001] = ± .013

Payload Data

<table>
<thead>
<tr>
<th>Stroke</th>
<th>Length</th>
<th>Load (lbs)</th>
<th>Maximum Deflection P1</th>
<th>Maximum Deflection P2</th>
<th>Maximum Moments P1</th>
<th>Maximum Moments P2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 [25.4 mm]</td>
<td>5 [2.3 kg]</td>
<td>14 [1.6 Nm]</td>
<td>.001 [0.03 mm]</td>
<td>.001 [0.03 mm]</td>
<td>.001 [0.03 mm]</td>
<td>.002 [0.05 mm]</td>
</tr>
<tr>
<td>2 [50.8 mm]</td>
<td>5 [2.3 kg]</td>
<td>10 [1.1 Nm]</td>
<td>.001 [0.03 mm]</td>
<td>.001 [0.03 mm]</td>
<td>.001 [0.03 mm]</td>
<td>.002 [0.05 mm]</td>
</tr>
<tr>
<td>3 [76.2 mm]</td>
<td>5 [2.3 kg]</td>
<td>8 [0.9 Nm]</td>
<td>.002 [0.05 mm]</td>
<td>.002 [0.05 mm]</td>
<td>.002 [0.05 mm]</td>
<td>.002 [0.05 mm]</td>
</tr>
<tr>
<td>4 [101.6 mm]</td>
<td>5 [2.3 kg]</td>
<td>6 [0.7 Nm]</td>
<td>.0025 [0.05 mm]</td>
<td>.0025 [0.05 mm]</td>
<td>.0025 [0.05 mm]</td>
<td>.0025 [0.05 mm]</td>
</tr>
</tbody>
</table>

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