AGMS-2-3 Mini Powered Slide
Built-In Air Cylinder

FEATURES AND BENEFITS

- T-Slot bearing support for the carriage and end plate offers superior load bearing performance throughout the stroke.
- 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.

SPECIFICATIONS

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

**Stroke:** 1.5 in [38.1 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:** 24 lbs [10.8 kg]

**Material:** High Strength, Aluminum Alloys, Bronze

**Weight:** 6.8 oz [193 g]

**Piston Diameter:** .750 in [19 mm]

January 2009 - PATENTED Made in the USA

MAXIMUM FORCES & MOMENTS

<table>
<thead>
<tr>
<th></th>
<th>Static</th>
<th>Dynamic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Tensile T</td>
<td>180 lbs [800 N]</td>
<td>77 lbs [342 N]</td>
</tr>
<tr>
<td>Max Compressive C</td>
<td>180 lbs [800 N]</td>
<td>77 lbs [342 N]</td>
</tr>
<tr>
<td>Max Moment M_x</td>
<td>70 in/lb [8 Nm]</td>
<td>34 in/lb [3.8 Nm]</td>
</tr>
<tr>
<td>Max Moment M_y</td>
<td>70 in/lb [8 Nm]</td>
<td>34 in/lb [3.8 Nm]</td>
</tr>
<tr>
<td>Max Moment M_z</td>
<td>70 in/lb [8 Nm]</td>
<td>34 in/lb [3.8 Nm]</td>
</tr>
</tbody>
</table>

HOW TO ORDER

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

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

**TYPE**
- M = METRIC
- = IMPERIAL

**SENSOR TYPE**
- 1 = NPN
- 2 = PNP

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

**SENSOR CONNECTOR**
- 1 = POTTED
- 2 = 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
AGMS-2-3  Mini Powered Slide
Built-In Air Cylinder

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 ± .005" [.013mm]

Metric Threads
Course Pitch

Imperial: 0.00 = ±.01
0.000 = ±.005
0.0000 = ±.0005

Metric: [0.] = ±.25
[0.0] = ±.13
[0.00] = ±.013