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.
- Standard built-in stroke adjustment and stroke lock for precise, repetitive operation.
- 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: 2 in  [50.8 mm]

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

Recommended Speed: 2-12 in/sec
[0.5-3 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 [0.03 mm]

Maximum Payload: 30 lbs  [13.6 kg]

Material: High Strength, Aluminum Alloys, Bronze

Weight: 8.4 oz  [240 g]

Piston Diameter: .750 in  [19 mm]

January 2009 - PATENTED   Made in the USA

MAXIMUM FORCES & MOMENTS

<table>
<thead>
<tr>
<th>Type</th>
<th>Static Force</th>
<th>Dynamic Force</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile T</td>
<td>250 lbs [1112 N]</td>
<td>108 lbs [800 N]</td>
</tr>
<tr>
<td>Compressive C</td>
<td>250 lbs [1112 N]</td>
<td>108 lbs [800 N]</td>
</tr>
<tr>
<td>Moment Mx</td>
<td>120 in/lb [8 Nm]</td>
<td>62 in/lb [7 Nm]</td>
</tr>
<tr>
<td>Moment My</td>
<td>120 in/lb [8 Nm]</td>
<td>62 in/lb [7 Nm]</td>
</tr>
<tr>
<td>Moment Mz</td>
<td>120 in/lb [8 Nm]</td>
<td>62 in/lb [7 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
3 = QUICK DISCONNECT WITH RIGHT ANGLE

**NOTE:** Hall Effect sensors are hard wired with 20" pigtail.
Sensor Part # SHN01, SHP01, SHNQ3, SHPQ3
AGMS-2-4  Mini Powered Slide
Built-In Air Cylinder

Unless noted, all tolerances are as indicated here:

- All Dowel Holes are SF
- Slip Fit Locational Tolerance ± .0005" [.013mm]

Metric Threads

- Course Pitch
- Metric: [0.0] = ±.25
  [0.0] = ±.13
  [0.00] = ±.013

Imperial:

- Inch 0.00 = ±.01
  0.000 = ±.005
  0.0000 = ±.0005

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