AGMS-1-1  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: .5 in adj [12.7 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-.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: 3 lbs [1.3 kg]

Material: High Strength, Aluminum Alloys, Bronze

Weight: 2.5 oz [70.1 g]

Piston Diameter: .50 in [12.7 mm]

January 2009 - PATENTED  Made in the USA

MAXIMUM FORCES & MOMENTS

Static  Dynamic
Max Tensile T 50 lbs [222 N] 20 lbs [89 N]
Max Compressive C 50 lbs [222 N] 20 lbs [89 N]
Max Moment M_x 25 in/lb [2.8 Nm] 15 in/lb [1.7Nm]
Max Moment M_y 30 in/lb [3.4 Nm] 15 in/lb [1.7Nm]
Max Moment M_z 30 in/lb [3.4 Nm] 15 in/lb [1.7Nm]

HOW TO ORDER

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

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

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 – Potted or Quick disconnect.
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
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
    - Inch: 0.000 = ±.005
    - Metric: [0.] = ±.25
    - [0.0] = ±.13
    - [0.00] = ±.013