AGMS-1-3  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 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.

SPECIFICATIONS

Design: Built-in air cylinder
T-slot slide

Stroke: 1.5 in [38.1 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: 12 lbs [5.4 kg]

Material: High Strength, Aluminum Alloys, Bronze

Weight: 4 oz [113 g]

Piston Diameter: .50 in [12.7 mm]

January 2009 - PATENTED Made in the USA

MAXIMUM FORCES & MOMENTS

Max Tensile T 100 lbs [444 N] 42 lbs [186 N]
Max Compressive C 100 lbs [444 N] 42 lbs [186 N]
Max Moment Mx 80 in/lb [9 Nm] 40 in/lb [4.5 Nm]
Max Moment My 80 in/lb [9 Nm] 40 in/lb [4.5 Nm]
Max Moment Mz 80 in/lb [9 Nm] 40 in/lb [4.5 Nm]

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

Sensor Part # SHN01, SHP01, SHNQ3, SHPQ3

* NOTE: Hall Effect sensors – Potted or Quick disconnect.
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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
      - 0.0000 = ±.0005
    - Metric: [mm] [0.0] = ±.25
      - [0.00] = ±.13

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