AGMS-1-4 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: 2.0 in [50.8 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: 18 lbs [81.6 kg]

Material: High Strength, Aluminum Alloys, Bronze

Weight: 5 oz [142 g]

Piston Diameter: .50 in [12.7 mm]

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MAXIMUM FORCES & MOMENTS

Max Tensile T Static 130 lbs [578 N] Dynamic 55 lbs [244 N]
Max Compressive C 130 lbs [578 N] 55 lbs [244 N]
Max Moment M_x 110 in/lb [12.5 Nm] Max Moment M_y 110 in/lb [12.5 Nm] Max Moment M_z 110 in/lb [12.5 Nm]

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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

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Unless noted, all tolerances are as indicated here:

- Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [.013mm]
- Metric Threads Course Pitch
- Imperial: 0.00 = ±.01
  0.000 = ±.005
- Metric: [0.0] = ±.25
  [0.00] = ±.13
  [0.000] = ±.013

AGI Automation Components

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

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