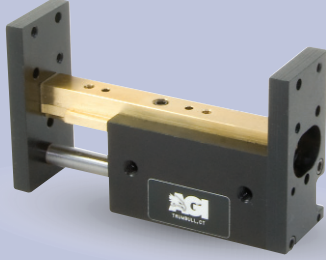




AGPS-1-2 Parallel Gripper

Single Finger, One Fixed Jaw



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.
- Adjustable stroke on extend and retract.

SPECIFICATIONS

Design: Built-in air cylinder
T-slot slide

Stroke: 1 inch [25.4 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: 7 lbs [3.2 kg]

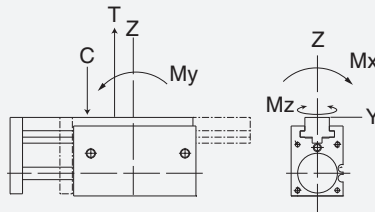
Material: High Strength, Aluminum Alloys, Bronze

Weight: 3.2 oz [90 g]

Piston Diameter: .50 in [12.7 mm]

January 2008 - PATENTED Made in the USA

MAXIMUM FORCES & MOMENTS



	Static	Dynamic
Max Tensile T	75 lbs [333 N]	32 lbs [142 N]
Max Compressive C	75 lbs [333 N]	32 lbs [142 N]
Max Moment M_x	60 in/lb [6.7 Nm]	30 in/lb [3.4 Nm]
Max Moment M_y	60 in/lb [6.7 Nm]	30 in/lb [3.4 Nm]
Max Moment M_z	60 in/lb [6.7 Nm]	30 in/lb [3.4 Nm]

HOW TO ORDER

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

DESIGN/MODEL

- AGPS-1-1
- AGPS-1-2
- AGPS-1-3
- AGPS-1-4

METRIC

AGPS-1-2

SENSOR OPTIONS*

- 1 = LEFT
- 2 = RIGHT
- 3 = BOTH

SENSOR TYPE

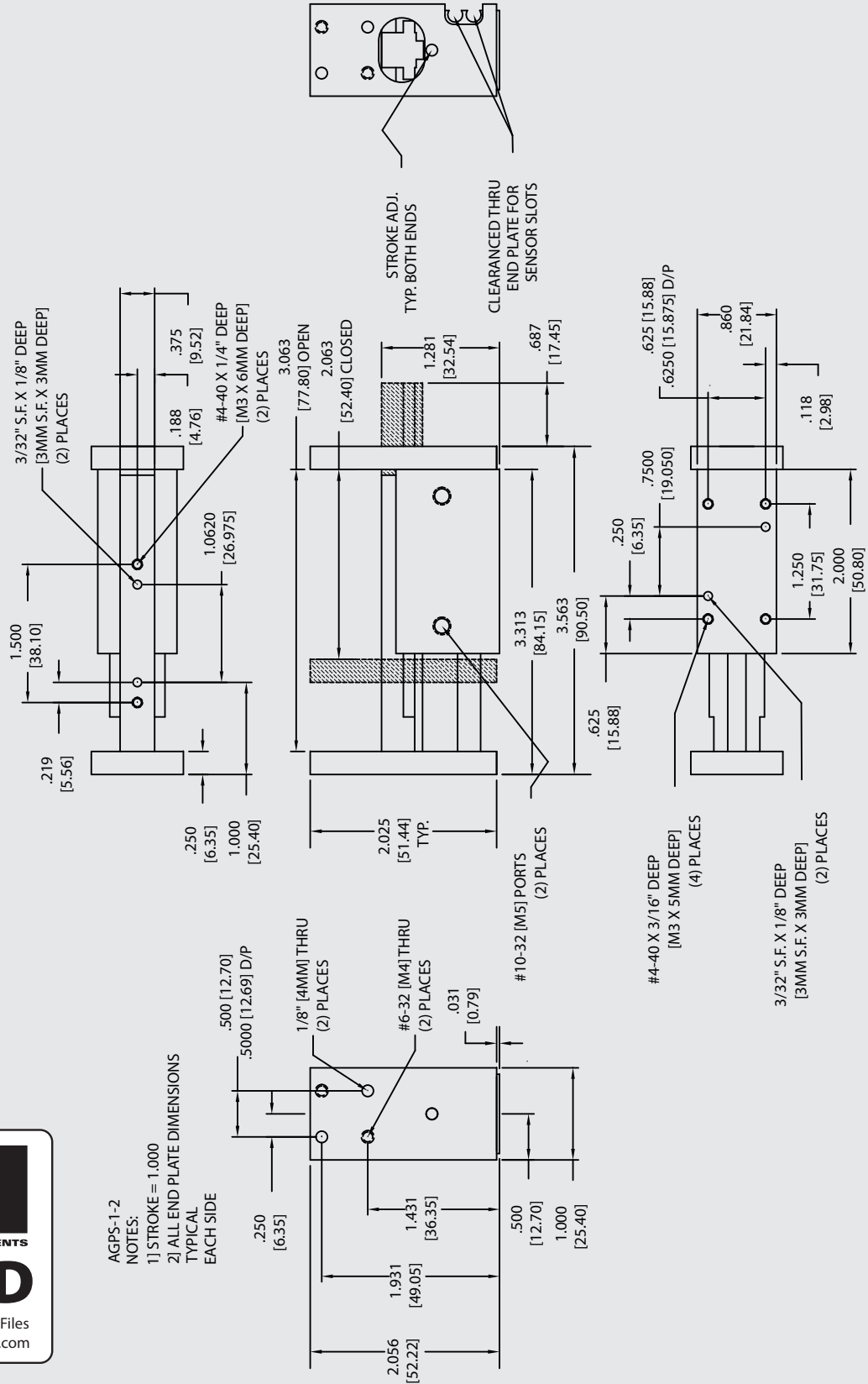
- 1 = NPN
- 2 = PNP

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



AGPS-1-2
NOTES:
1) STROKE = 1.000
2) ALL END PLATE DIMENSIONS
TYPICAL
EACH SIDE



Unless noted, all tolerances are as indicated here:

All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]

Metric Threads Course Pitch

Imperial: 0.00 = ±.01
Inch 0.000 = ±.005
0.0000 = ±.0005
Metric: [0.] = ±.25
[mm] [0.0] = ±.13
[0.00] = ±.013