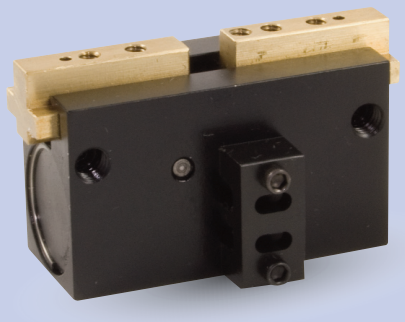
# AGLP-1 Parallel Gripper

## T-Slot Bearing Series, Low Profile



### FEATURES AND BENEFITS

- **Jaws are T-Slot bearing supported to prevent jaw breakage and offer superior load bearing performance.**
- Rugged rack and pinion synchronizing.
- High gripping force to weight ratio.
- Compact design with long stroke.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Hall effect sensors are available to monitor open and closed position of the jaws.
- AGLP is fully field repairable for cost savings and minimum down time

### SPECIFICATIONS

**Design:** Parallel, Double Acting, Synchronized Jaws

| | | |
|---|---|---|
| **Stroke:** | 0.25 in | [6.4 mm] |
| **Gripping Force @ 80 PSI [5.5 BAR]** | | |
| Closing: | 10 lbs | [44 N] |
| Opening: | 10 lbs | [44 N] |
| **Time:** | | |
| Close: | 0.12 sec | [0.12 sec] |
| Open: | 0.12 sec | [0.12 sec] |
| **Pressure Range:** | | |
| Low/High | 10-100 PSI | [.7-7 BAR] |
| **Temperature Range:** | | |
| Low/High | -20˚/180˚F | [-28˚/80˚C] |
| **Side Play:** | ± 0.001 | [.03 mm] |

**Loading Capacity:**

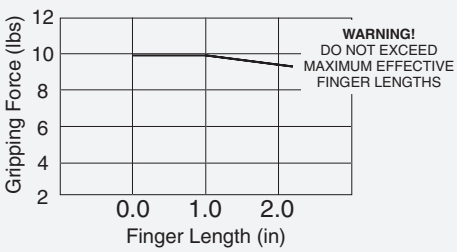
| | Static | Dynamic |
|---|---|---|
| Max Tensile **T** | 65 lbs [289 N] | 20 lbs [89 N] |
| Max Compressive **C** | 65 lbs [289 N] | 20 lbs [89 N] |
| Max Moment $M_x$ | 60 in/lb [6.7 Nm] | 15 in/lb [1.6 Nm] |
| Max Moment $M_y$ | 60 in/lb [6.7 Nm] | 20 in/lb [2.2 Nm] |
| Max Moment $M_z$ | 60 in/lb [6.7 Nm] | 15 in/lb [1.6 Nm] |

**Material:** High Strength,Hard Coated aluminum bronze alloys, Steel

| | | |
|---|---|---|
| **Weight:** | 2 oz | [56 g] |
| **Piston Diameter:** | .625 in | [15.8 mm] |

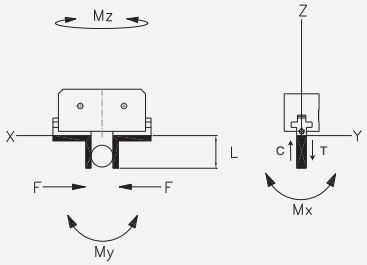
**January 2009 - PATENTED Made in the USA**

### HOLDING FORCES CHART




**WARNING!** Do not exceed tooling jaw length. See Chart above.

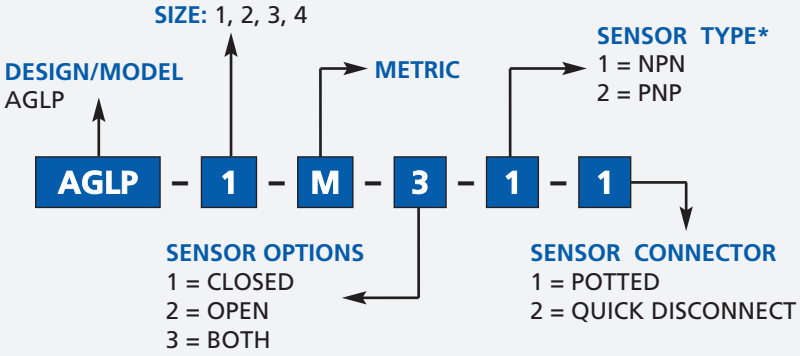
### LOADING INFORMATION




**LOOK!** More Technical specifications for sensors on "Sensors Accessories" page.

### HOW TO ORDER

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




* NOTE: Hall Effect 4mm dia., 5-24 VDC, 22 mA and comes with 2 meter cable or quick disc.

**Sensor Part # SHN01, SHNQ3, SHP01, SHPQ3**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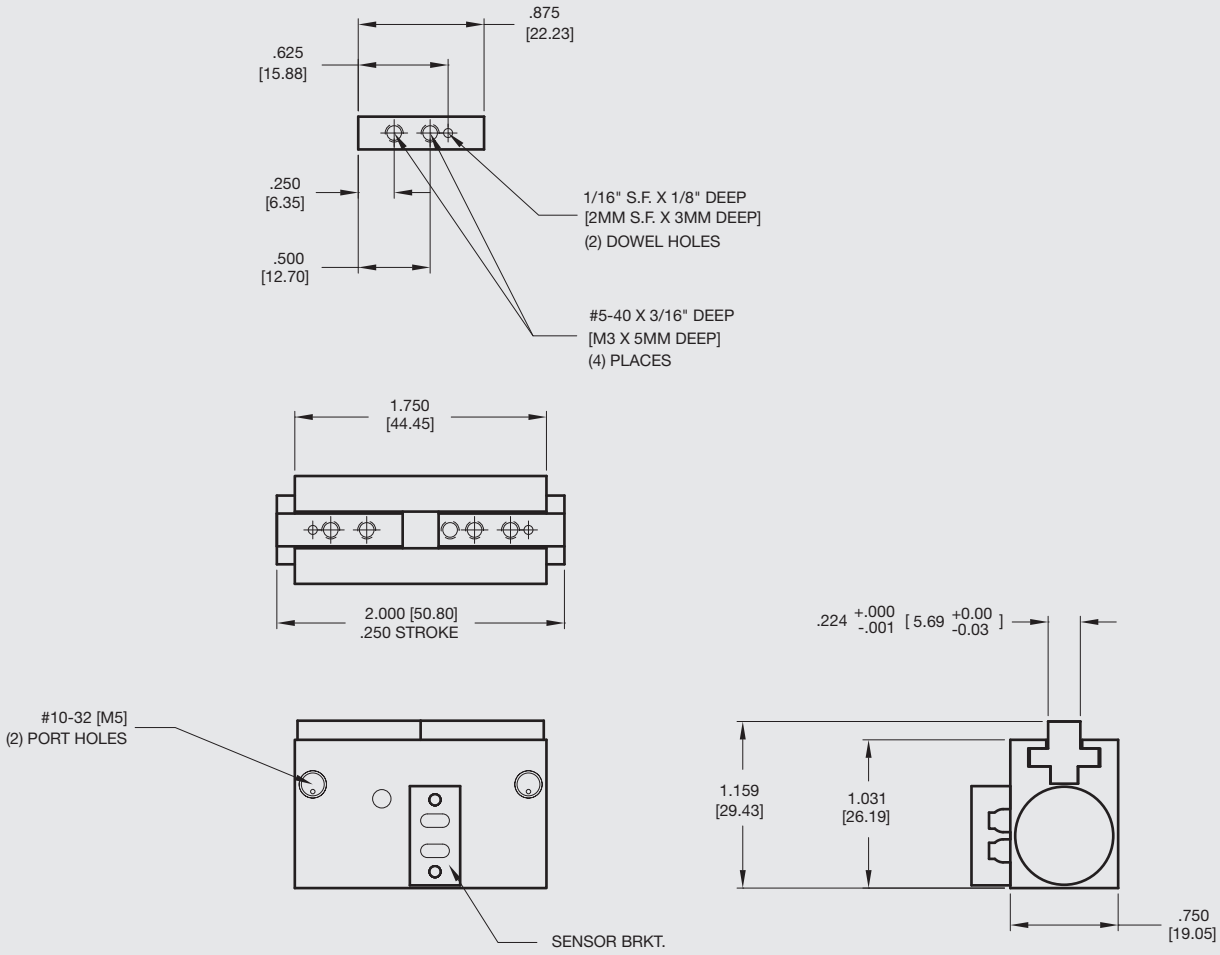


AUTOMATION COMPONENTS

**2D&3D**

Download 2D & 3D CAD Files
@ 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:** Inch | 0.00 = ±.01 | **Metric:** [mm] | [0.] = ±.25 |
| | 0.000 = ±.005 | | [0.0] = ±.13 |
| | 0.0000 = ±.0005 | | [0.00] = ±.013 |