

# AGP-250 Parallel Gripper

## Double Guided Wedge



### FEATURES AND BENEFITS

- Jaws machined from S7 tool steel to prevent jaw breakage.
- Ultra high gripping force to weight ratio.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, this allowing for compliance with OSHA regulations.
- Additional side mounting holes and side air ports for optional mounting and porting available.
- Proximity switches are available to monitor open and closed position of the jaws.
- Fully field repairable for cost savings and minimum down time.

### SPECIFICATIONS

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

**Stroke:** 0.25 in [6.3 mm]

**Gripping Force @ 80 PSI [5.5 bar]:**

Close: 20 lbs [89 N]

Opening: 22 lbs [97 N]

**Time:**

Close: 0.2 sec [0.2 sec]

Open: 0.2 sec [0.2 sec]

**Pressure Range:** 30-120 PSI [2-8 bar]

**Temperature Range:** -20°-180°F [-28°-80°C]

**Side Play:** ± 0.001 [0.03 mm]

**Repeatability from center:**  
±.002 [0.06 mm]

**Loading Capacity:**

	Static	Dynamic
Max Tensile T	100 lbs [444 N]	15 lbs [66.7 N]
Max Compressive C	150 lbs [667 N]	25 lbs [111 N]

	90 in/lb [10 Nm]	15 in/lb [1.7 Nm]
Max Moment Mx	90 in/lb [10 Nm]	15 in/lb [1.7 Nm]
Max Moment My	90 in/lb [10 Nm]	15 in/lb [1.7 Nm]
Max Moment Mz	90 in/lb [10 Nm]	15 in/lb [1.7 Nm]

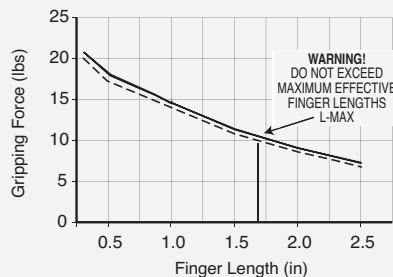
**Material:** High Strength, Hard Coated aluminum bronze alloys, Steel

**Weight:** 4 oz. [113 g]

**Piston Diameter:** 1.00 in [25.4 mm]

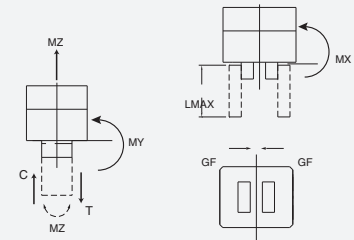
January 2009 - PATENTED Made in the USA

### 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.

**DESIGN/MODEL**  
AGP-250

**TYPE**  
M = METRIC  
= IMPERIAL

**SENSOR TYPE\***

1 = NPN  
2 = PNP

**OPTIONAL PORT**

**AGP-250** - **M** - **3** - **1** - **1** - **OP**

**SENSOR OPTIONS**

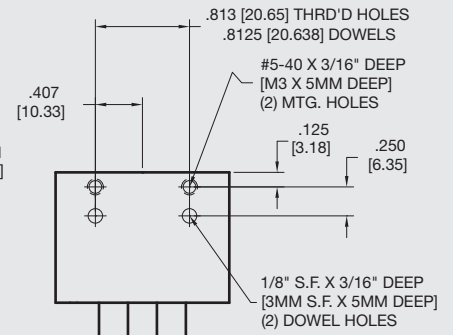
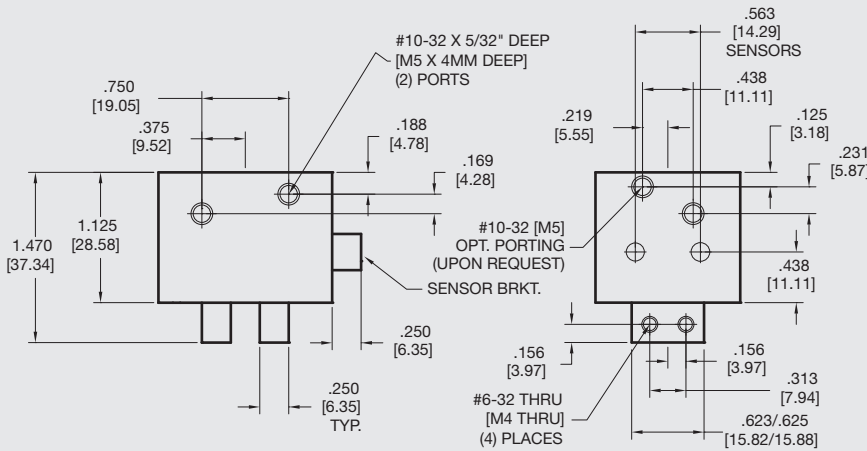
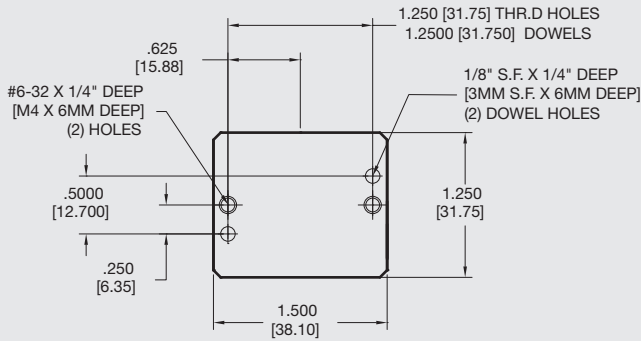
1 = CLOSED  
2 = OPEN  
3 = BOTH

**SENSOR CONNECTOR**

1 = POTTED  
2 = QUICK DISCONNECT  
3 = QUICK DISCONNECT WITH RIGHT ANGLE

\* NOTE: Proximity sensors are 4 mm dia., 12-30 VDC, 50 mA and comes with 2 meter cable or quick disc.

Sensor Part # SNC04, SNQ04, SPC04, SPQ04



**Unless noted, all tolerances are as indicated here:**



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



Metric Threads Course Pitch

**Imperial:**  
Inch 0.00 =  $\pm .01$   
0.000 =  $\pm .005$   
0.0000 =  $\pm .0005$

**Metric:** [0.] =  $\pm .25$   
[mm] [0.0] =  $\pm .13$   
[0.00] =  $\pm .013$