



# AGA-50 Angular Gripper

## Double Guided, Low Profile



### FEATURES AND BENEFITS

- Grippers provide up to 180° of angular jaw travel allowing the jaws to completely retract from the work area eliminating another required axis of travel.
- High gripping force to weight ratio.
- Compact design with long stroke.
- Jaw rotations can be adjusted from 0-90° to allow the gripper to be custom fit to each application.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulation.
- Proximity sensors are available to monitor open and closed position of the jaws.
- AGA is fully field repairable for cost savings and minimum down time.
- The gripper body has two mounting surfaces with dowel pin holes to provide accurate mounting in a variety of positions.

### SPECIFICATIONS

**Design:** Angular

**Stroke:** 0-180° adj

#### Gripping Force @ 80 PSI [5.5 BAR]

Closing: 720 lbs [3200 N]  
Opening: 685 lbs [3050 N]

#### Time:

Close: 0.2 sec [0.2 sec]  
Open: 0.2 sec [0.2 sec]

#### Pressure Range:

Low/High 10-120 PSI [7-8 BAR]

#### Temperature Range:

Low/High -20°/180°F [-28°/80°C]

**Side Play:** ± 0.001 [.03 mm]

**Repeatability from Center:** ± 0.002 [.06 mm]

#### Loading Capacity:

	Static	Dynamic
Max Tensile T	1200 lbs [5330 N]	400 lbs [1780 N]
Max Compressive C	1200 lbs [5330 N]	400 lbs [1780 N]
Max Moment $M_x$	930 in/lb [105 Nm]	310 in/lb [35 Nm]
Max Moment $M_y$	880 in/lb [20.3 Nm]	276 in/lb [31.2 Nm]
Max Moment $M_z$	880 in/lb [99.5 Nm]	276 in/lb [31.2 Nm]

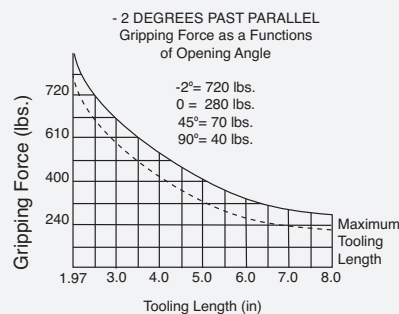
**Material:** High Strength, Hard Coated aluminum bronze alloys, Steel

**Weight:** 5.5 lbs [2.3 kg]

**Piston Diameter:** 2.25 in [57.2 mm]

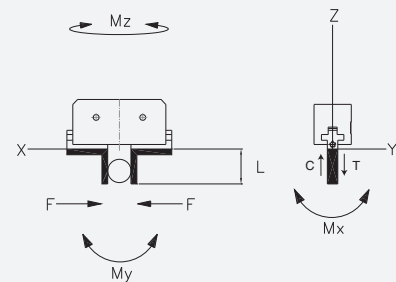
January 2009 - PATENTED Made in the USA

### HOLDING FORCES CHART



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

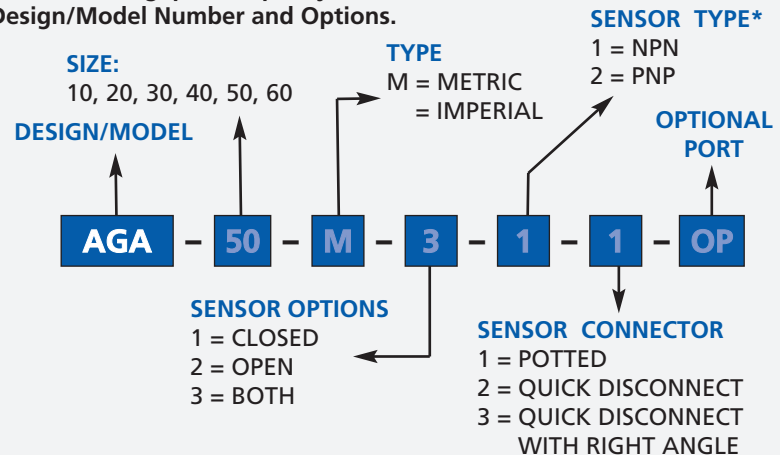
### LOADING INFORMATION



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

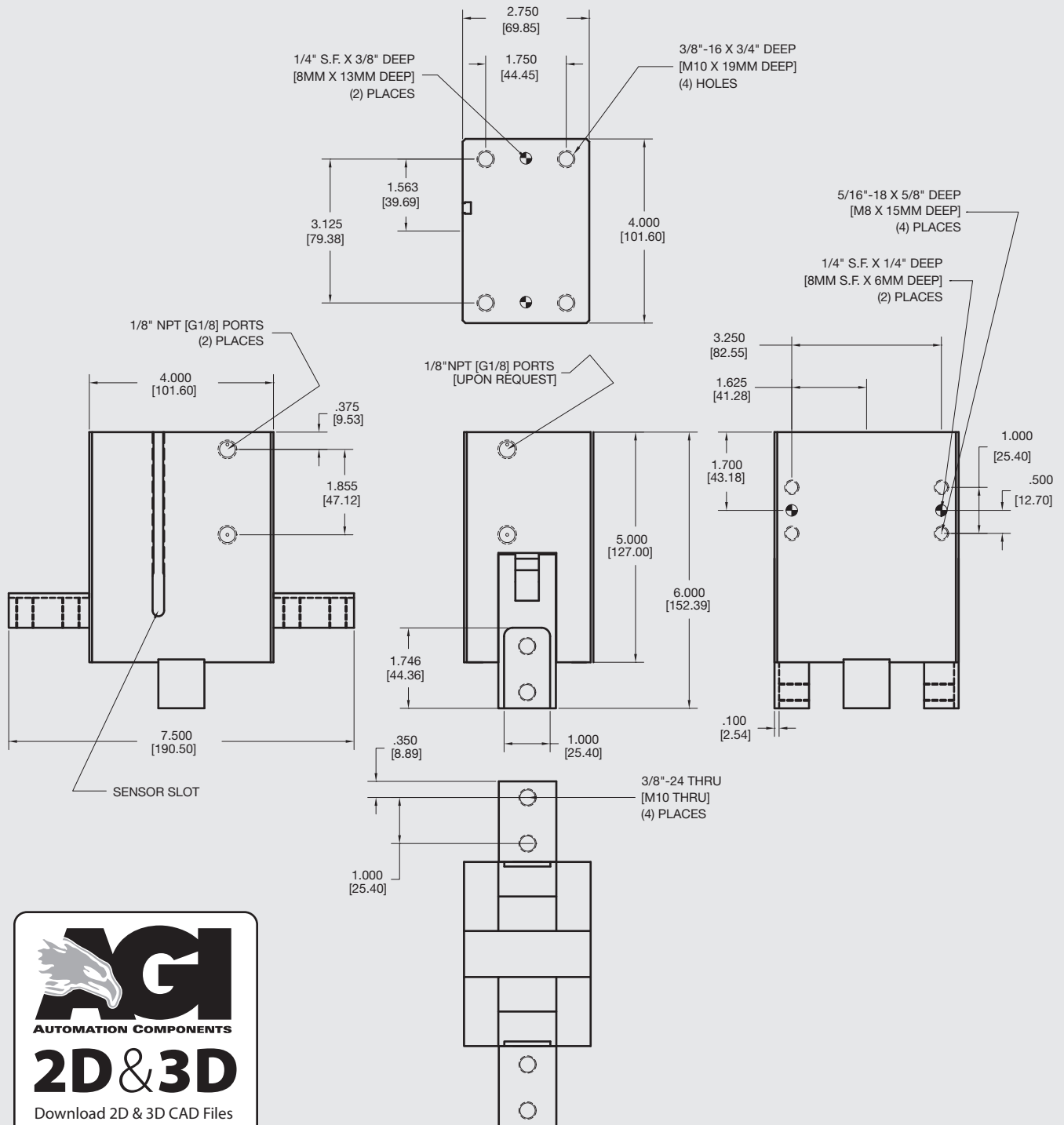
### HOW TO ORDER

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.

Sensor Part # **SNQ04, SNC02, SPC02, SPQ04**



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



All Dowel Holes are SF (Slip Fit) Locational Tolerance  $\pm .0005"$  [.013mm]



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] =  $\pm .013$