



# AGP-6-OR Parallel Gripper

## 6-Finger Gripper for Placing O-Rings, T-Slot Bearing Series



### FEATURES AND BENEFITS

- Jaws are T-Slot bearing supported to prevent jaw breakage and offer superior load bearing performance.
- Spreading jaws and Ejector jaws have independent pistons to provide exact timing of O-ring placement.
- Compact design with long adjustable stroke.
- True parallel jaw motion for easy tooling.
- Available in Metric only.

### SPECIFICATIONS

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

**Stroke:** Spread 0.6 in. adj. [15 mm]  
Ejecting 0.25 in [6.3 mm]

**Gripping Force Per Jaw @ 80 PSI [5.5 BAR]**  
Spreading Jaw: 62 lbs [275 N]  
Ejector Jaw: 80 lbs [355 N]

**Time:**  
Close: 0.2 sec [0.2 sec]  
Open: 0.2 sec [0.2 sec]

**Pressure Range:**  
Low/High 30-100 PSI [2-7 BAR]

**Temperature Range:**  
Low/High -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	60 lbs [260 N]	20 lbs [88 N]
Max Compressive C	60 lbs [260 N]	20 lbs [88 N]
Max Moment $M_x$	100 in/lb [11 Nm]	25 in/lb [2.7 Nm]
Max Moment $M_y$	120 in/lb [13 Nm]	30 in/lb [3.3 Nm]
Max Moment $M_z$	100 in/lb [11 Nm]	25 in/lb [2.7 Nm]

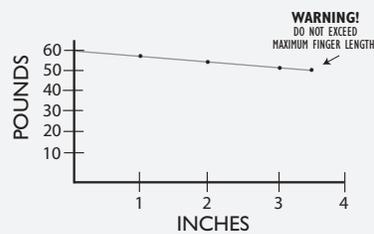
**Material:** High Strength, Hard Coated aluminum bronze alloys, Steel

**Weight:** 1.25 lbs [0.56 Kg]

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

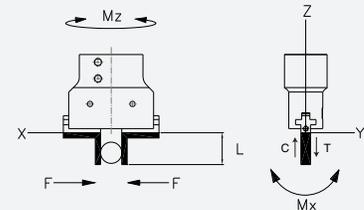
January 2009 - PATENTED Made in the USA

### HOLDING FORCES CHART



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

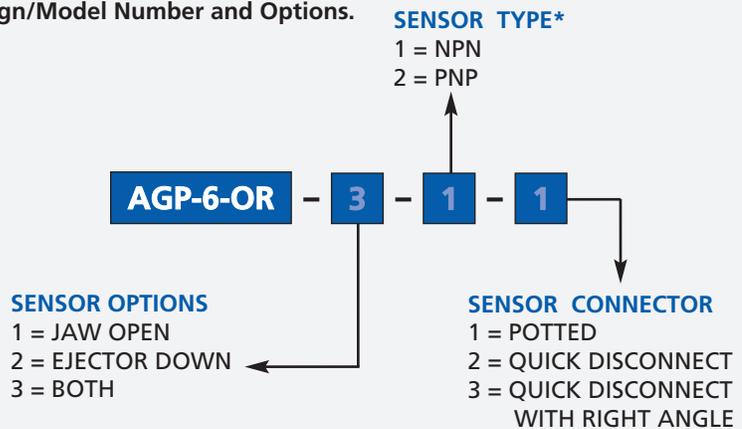
### LOADING INFORMATION



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

### HOW TO ORDER

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



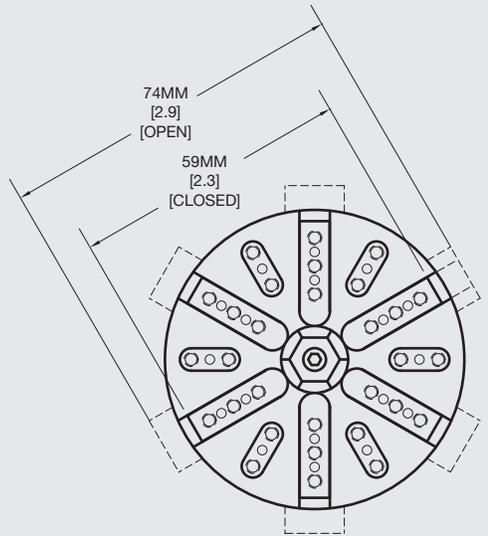
\* NOTE: Proximity sensors are 6.5 mm smooth barrel, 12-30 VDC, 50 mA and comes with 2 meter cable.

Sensor Part # SNC06, SNQ06, SPC06, SPQ06

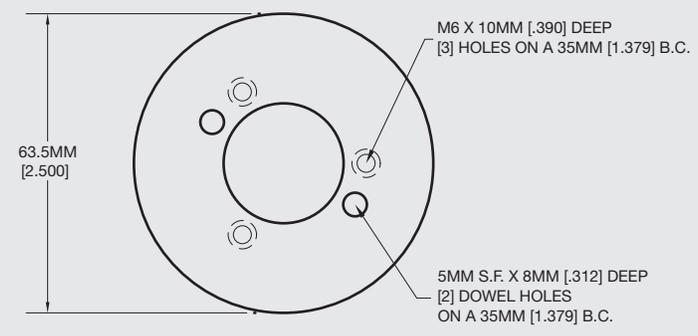
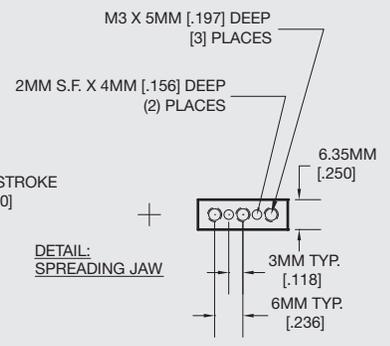
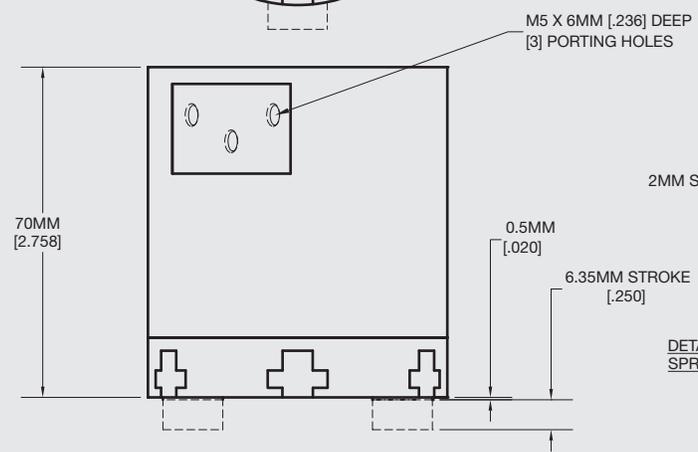
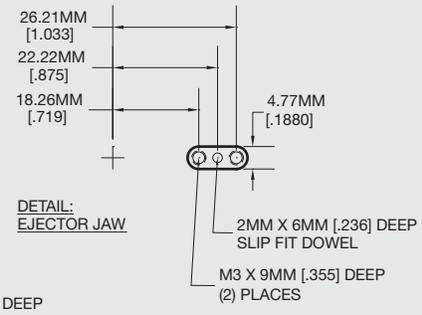


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### METRIC PROJECTION



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

	All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [.013mm]		Metric Threads Course Pitch	<b>Imperial:</b> Inch	0.00 = ±.01 0.000 = ±.005 0.0000 = ±.0005	<b>Metric:</b> [mm]	[0.] = ±.25 [0.0] = ±.13 [0.00] = ±.013
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## Basic Operating Instructions

- 1 Eject air port
- 2 Jaw close air port
- 3 Jaw open air port
- 4 Adjustment screw locknut
- 5 Stroke adjustment screw

To adjust stroke, first loosen adjustment screw locknut [marked #4].  
Next, drive adjustment screw [marked #5] down to shorten stroke or back out to lengthen.  
Complete the adjustment by locking adjustment screw lock.



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

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