AGLP-12 T-SLOT BEARING SERIES PARALLEL GRIPPER

PRODUCT SPECIFICATIONS

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

**Stroke:** 1.00 in [25.4 mm] 1.50 in [38.1 mm] 2.00 in [50.8 mm]

**Gripping Force @ 80 PSI [5.5 BAR]**
Closing: 80 lbs [355 N]
Opening: 80 lbs [355 N]

**Time:**
Close: 0.25 sec [0.2 sec]
Open: 0.25 sec [0.2 sec]

**Pressure Range:**
Low/High 10-120 PSI [0.7-7 BAR]

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

**Side Play:** ± 0.001 [.03 mm]

**Loading Capacity:** Static – Dynamic

- Max Tensile T
  - 225lbs [1000 N]
  - 75 lbs [333 N]

- 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, this allowing for compliance with OSHA regulations.
- Piston seals are quad ring type for long service life.
- Hall effect sensors are available to monitor open and closed positions of the jaws.
- AGLP is fully field repairable for cost savings and minimum down time.
- Gripper can be ordered with 3 different stroke on the same size body.
Max Compressive $C$
225 lbs  
[1000 N]  
75 lbs  
[333 N]

Max Moment $M_x$
570 in/lb  
[64.4 Nm]  
190 in/lb  
[21.4 Nm]

Max Moment $M_y$
685 in/lb  
[77.4 Nm]  
228 in/lb  
[25.1 Nm]

Max Moment $M_z$
570 in/lb  
[64.4 Nm]  
190 in/lb  
[21.4 Nm]

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

Weight: 5 lb [2.26 kg]

Piston Diameter: 1.625 in [41.2 mm]