AGP-43 Three Jaw Parallel Gripper
T-Slot Bearing Series

FEATURES AND BENEFITS

- Jaws are T-Slot bearing supported to prevent jaw breakage and offer superior load bearing performance.
- 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.
- AGP is fully field repairable for cost savings and minimum down time.
- Multiple mounting surfaces on jaw for easy tooling.
- Optional stripper plate ensures part preload in location upon release.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: .40 in [10.2 mm]

Gripping Force @ 80 PSI [5.5 BAR]
Closing: 80 lbs [355 N]
Opening: 86 lbs [382 N]

Time:
Close: 0.22 sec [0.22 sec]
Open: 0.22 sec [0.22 sec]

Pressure Range:
Low/High 30-120 PSI [2-8 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:

Max Tensile $T_x$: 760 lbs [3380 N]
Max Compressive $C$: 760 lbs [3380 N]
Max Moment $M_x$: 760 in/lb [85.8 Nm]
Max Moment $M_y$: 760 in/lb [85.8 Nm]
Max Moment $M_z$: 300 in/lb [43 Nm]

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

Weight: 1.0 lbs [.5 kg]

Piston Diameter: 2.0 in. [50.8 mm]

January 2009 - PATENTED Made in the USA

LOADING INFORMATION

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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 # SHN02, SHNQ4, SHP02, SHPQ4
Unless noted, all tolerances are as indicated here:

- All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [.013mm]
- Metric Threads: Course Pitch
  - Imperial: 0.000 = ±.01
  - Metric: [0,] = ±.25
  - 0.0000 = ±.0005
  - [0,0] = ±.13
  - [0,0,0] = ±.013

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