AGA-23  Angular Gripper
180° Three Jaw

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, adjustable 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: 3-Jaw Angular
Stroke: 0-180° adjustable

Gripping Force @ 80 PSI [5.5 BAR]
Closing: 17 lbs [75 N]
Opening: 20 lb [89 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:
Max Tensile T
50 lbs [222 N]
Max Compressive C
50 lbs [222 N]
Max Moment M_x
60 in/lb [6.8 Nm]
Max Moment M_y
120 in/lb [13.6 Nm]
Max Moment M_z
60 in/lb [6.8 Nm]

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

Weight: 1.0 lb [0.45 kg]
Piston Diameter: 0.787 in [20 mm]

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LOADING INFORMATION

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

LOADING INFORMATION


HOW TO ORDER

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

- SIZE: 23, 33, 43, 53
- TYPE M = METRIC
  = IMPERIAL
- SENSOR TYPE*
  1 = NPN
  2 = PNP
- SENSOR OPTIONS
  1 = CLOSED
  2 = OPEN
  3 = BOTH
- SENSOR CONNECTOR
  1 = POTTED
  2 = QUICK DISCONNECT
  3 = QUICK DISCONNECT WITH RIGHT ANGLE

* 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 ± .0005" [.013mm]
- Metric Threads
  - Course Pitch
  - Imperial: 0.00 = ± .01
  - 0.000 = ± .005
  - 0.0000 = ± .0005
  - Metric: [0.] = ± .25
  - [0.0] = ± .13
  - [0.00] = ± .013