AGA-20 Angular Gripper
Double Guided, Low Profile

FEATURES AND BENEFITS
- Grippers provide up to 180º 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 0-90º 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: 0-180º adj

Gripping Force @ 80 PSI [5.5 BAR]
Closing: 52 lbs [231 N]
Opening: 55 lb [245 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: Static 50 lbs [222 N] Dynamic 20 lbs [89 N]
Max Compressive C: Static 50 lbs [222 N] Dynamic 20 lbs [89 N]
Max Moment Mx: 60 in/lb [6.8 Nm] 20 in/lb [2.3 Nm]
Max Moment My: 120 in/lb [13.6 Nm] 40 in/lb [4.5Nm]
Max Moment Mz: 60 in/lb [6.8 Nm] 20 in/lb [2.3 Nm]

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

Weight: 7 oz [198 g]
Piston Diameter: 0.787 in [20 mm]

January 2009 - PATENTED Made in the USA

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

SIZE:
10, 20, 30, 40, 50, 60

TYPE:
M = METRIC
= IMPERIAL

OPTIONAL PORT

SENSOR CONNECTOR
1 = POTTED
2 = QUICK DISCONNECT
3 = QUICK DISCONNECT WITH RIGHT ANGLE

SENSOR OPTIONS
1 = CLOSED
2 = OPEN
3 = BOTH

SENSOR TYPE*
1 = NPN
2 = PNP

* NOTE: Hall Effect 4mm dia., 5-24 VDC, 22 mA and comes with 2 meter cable.

Sensor Part # SNQ04, SNC02, SPC02, SPQ04

LOADING INFORMATION

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

LOADING INFORMATION

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 = ±0.01 0.000 = ±0.005 0.0000 = ±0.0005
  - Metric: [0.] = ±0.25 [0.0] = ±0.13 [0.00] = ±0.013