AGA-10 Angular Gripper
Double Guided, Low Profile

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 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: Angular
Stroke: 0-180° adj

Gripping Force @ 80 PSI [5.5 BAR]
Closing: 20 lbs [88 N]
Opening: 22 lb [97 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 [0.3 mm]

Repeatability from Center:
± 0.002 [.06 mm]

Loading Capacity:
Max Tensile \( T \)
Static 22 lbs [100 N] 14 lbs [65 N]
Dynamic 22 lbs [100 N] 14 lbs [65 N]

Max Compressive \( C \)
22 lbs [100 N] 14 lbs [65 N]

Max Moment \( M_x \)
26 in/lb [3 Nm] 9 in/lb [1 Nm]

Max Moment \( M_y \)
26 in/lb [3 Nm] 9 in/lb [1 Nm]

Max Moment \( M_z \)
26 in/lb [3 Nm] 9 in/lb [1 Nm]

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

Weight:
XX oz [XX g]
Piston Diameter: 0.5 in [13 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

SENSOR OPTIONS
1 = CLOSED
2 = OPEN
3 = BOTH

SENSOR TYPE*
1 = NPN
2 = PNP

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

Metric: [0.] = ±.25 [0.0] = ±.13

American Grippers, Inc. 171 Spring Hill Road, Trumbull, CT 06611 Tel: 203-459-8345 Fax: 203-452-5943
info@AGI-Automation.com • www.AGI-Automation.com