AGP-6-OR Parallel Gripper
6-Finger Gripper for Placing O-Rings, T-Slot Bearing Series

FEATURES AND BENEFITS
- Jaws are T-Slot bearing supported to prevent jaw breakage and offer superior load bearing performance.
- Spreading jaws and Ejector jaws have independent pistons to provide exact timing of O-ring placement.
- Compact design with long adjustable stroke.
- True parallel jaw motion for easy tooling.
- Available in Metric only.

SPECIFICATIONS
Design: Parallel, Double Acting, Synchronized Sealed Jaws
Stroke: Spread 0.6 in. adj. [15 mm]
Ejecting 0.25 in [6.3 mm]
Gripping Force Per Jaw @ 80 PSI [5.5 BAR]
Spreading Jaw: 62 lbs [275 N]
Ejector Jaw: 80 lbs [355 N]
Time:
Close: 0.2 sec [0.2 sec]
Open: 0.2 sec [0.2 sec]
Pressure Range:
Low/High 30-100 PSI [2-7 BAR]
Temperature Range:
Low/High -20˚/180˚F [-28˚/80˚C]
Side Play:
± 0.001 [.03 mm]
Repeatability from center:
±.002 [.06 mm]
Loading Capacity:
Max Tensile T
Static 60 lbs [260 N]
Dynamic 20 lbs [88 N]
Max Compressive C
Static 60 lbs [260 N]
Dynamic 20 lbs [88 N]
Max Moment Mx 100 in/lb [11 Nm] 25 in/lb [2.7 Nm]
My 120 in/lb [13 Nm] 30 in/lb [3.3 Nm]
Mz 100 in/lb [11 Nm] 25 in/lb [2.7 Nm]
Material: High Strength, Hard Coated aluminum bronze alloys, Steel
Weight: 1.25 lbs [.56 Kg]
Piston Diameter: 1.00 in [25.4 mm]

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

SENSOR  TYPE*
1 = NPN
2 = PNP

SENSOR OPTIONS
1 = JAW OPEN
2 = EJECTOR DOWN
3 = BOTH

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

* NOTE: Proximity sensors are 6.5 mm smooth barrel, 12-30 VDC, 50 mA and comes with 2 meter cable.

Sensor Part # SNC06, SNQ06, SPC06, SPQ06

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
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Unless noted, all tolerances are as indicated here:

All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [.013mm]

Metric Threads
Imperial: 0.01 = ±.01
Metric: [0.] = ±.25
0.005 = ±.005
0.00 = ±.13
0.0000 = ±.0005
[0.0] = ±.013

Download 2D & 3D CAD Files @ www.AGI-Automation.com
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Basic Operating Instructions

1 Eject air port
2 Jaw close air port
3 Jaw open air port
4 Adjustment screw locknut
5 Stroke adjustment screw

To adjust stroke, first loosen adjustment screw locknut [marked #4]. Next, drive adjustment screw [marked #5] down to shorten stroke or back out to lengthen. Complete the adjustment by locking adjustment screw lock.