

Parallel Grippers

- AGP-OR Series**
- AGPM Series**
- AGLP Series**
- AGP Series**
- AGPT Series**
- AGW Series**
- AGM Series**





Dual Motion Grippers

Pick and Seat

Innovative tools for automated 'O'-ring and/or seal installation

Available in the following sizes:

AGP-6-OR. A six jaw/six ejector, multi-motion unit, that handles up to 3.000" i.d. seals and/or 'O'-rings. This unit has independent spreading and ejector movements.

AGP-8-OR. An eight jaw/eight ejector, multi-motion, thru-hole unit, that handles up to 12.000" i.d. seals and/or 'O'-rings. This unit has the same independent spreading and ejector movements of the AGP-6-OR, but offers both the capacity for larger diameter 'O'-rings as listed and a 1.500" diameter thru-hole for requirements that deal with long shaft installations/assemblies.

Both the AGP-6-OR & the AGP-8-OR are designed to facilitate part ejection and part seating, which may become necessary after 'O'-ring/seal placement.

Function:

These tools have two independent pneumatic pistons; the parallel jaws, or spreading jaws, which are double acting, and the ejector jaws, which are single acting. In 'O'-ring installation applications, the air pressure is applied to the first piston which facilitates the spreading jaws' expansion of the 'O'-ring in either a hexagonal or octagonal shape. [An 'O'-ring expanded in this manner offers considerably less deformation during the assembly insertion process.] Once the 'O'-ring is expanded and over the target, air pressure is applied to the second piston. This causes the ejector jaws to push the 'O'-ring away from the spreading jaws, and thus into or onto the assembly.

These 'O'-ring-installing units can be tooled to accommodate all types of rings/seals, ranging from the minute to 12.000" in diameter. The opening stroke of the spreading jaws can also be adjusted via a set-screw to prevent over-expansion. End of stroke sensing is available for both spreading and ejector jaws.

Dimensions:

AGP-6-OR - 2.500" diameter x 2.700" length.

Spreading jaws - 62 lbs. of force.

Ejector jaws - 80 lbs. of force.

AGP-8-OR - 5.000" diameter x 5.000" length.

Spreading jaws - 200 lbs. of force.

Ejector jaws - 320 lbs. of force.

[Note: Forces given @80 psi.]

Two and 3D CAD drawings available on our web site, www.agi-automation.com

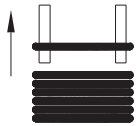
AGP-6-OR



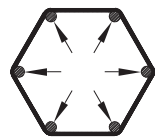
AGP-8-OR



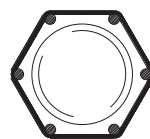
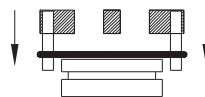
Typical Placement Example



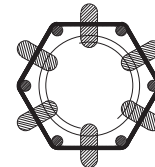
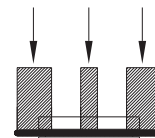
1.) O-rings are located in a nest or fixture and tooling jaws enter I.D.



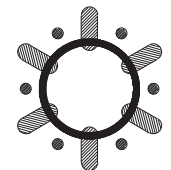
2.) Parallel tooling jaws spread o-ring to the need diameter.



3.) Passing over the part, the ring can be brought to the groove.



4.) Ejector jaws move forward pushing o-ring from jaws onto part.



5.) O-ring seal installed on part.

Detailed product specifications and CAD drawings on following pages.

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 [0.03 mm]

Repeatability from center:

±.002 [0.06 mm]

Loading Capacity:

	Static	Dynamic
Max Tensile T	60 lbs [260 N]	20 lbs [88 N]
Max Compressive C	60 lbs [260 N]	20 lbs [88 N]

Max Moment M_x 100 in/lb [11 Nm] 25 in/lb [2.7 Nm]

Max Moment M_y 120 in/lb [13 Nm] 30 in/lb [3.3 Nm]

Max Moment M_z 100 in/lb [11 Nm] 25 in/lb [2.7 Nm]

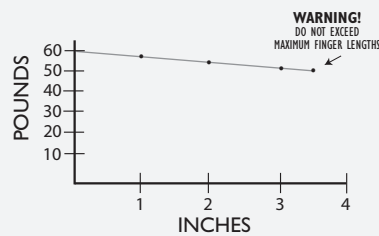
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 1.25 lbs [.56 Kg]

Piston Diameter: 1.00 in [25.4 mm]

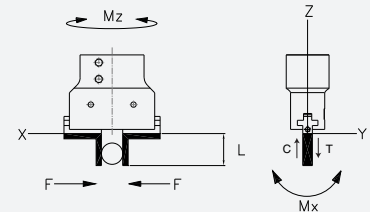
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HOLDING FORCES CHART



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

LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

DESIGN/MODEL

AGP-6-OR

SENSOR TYPE*

1 = NPN

2 = PNP

AGP-6-OR - 3 - 1 - 1

SENSOR OPTIONS

1 = JAW OPEN

2 = EJECTOR DOWN

3 = BOTH

SENSOR CONNECTOR

1 = POTTED

2 = QUICK DISCONNECT

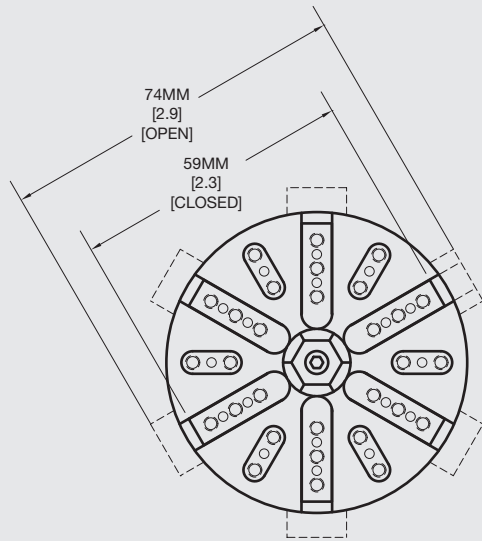
3 = QUICK DISCONNECT WITH RIGHT ANGLE

* NOTE: Proximity sensors are 4 mm dia., 12-30 VDC, 50 mA and comes with 2 meter cable.

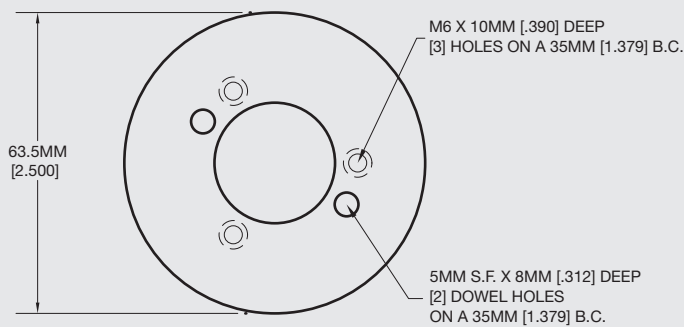
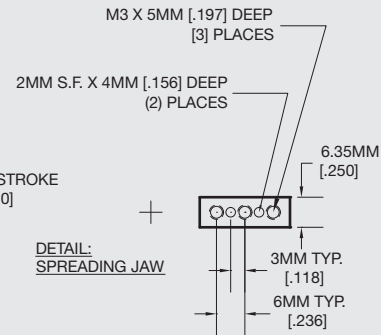
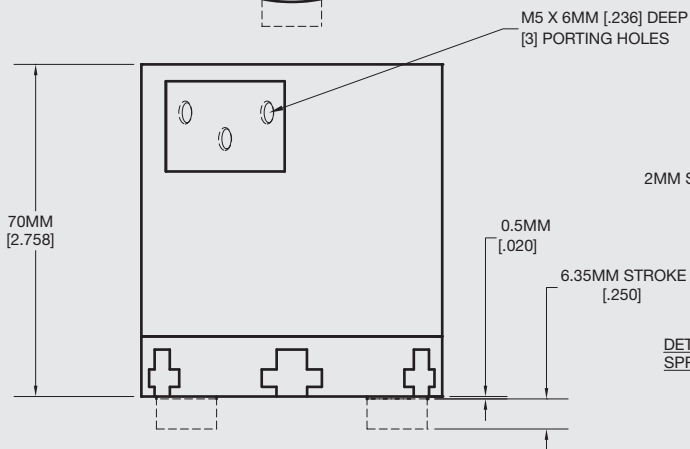
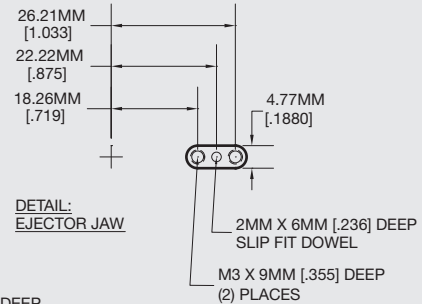
Sensor Part # SNC06, SNQ06, SPC06, SPQ06

AGP-6-OR Parallel Gripper

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



METRIC PROJECTION



Unless noted, all tolerances are as indicated here:



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



Metric Threads Course Pitch

Imperial:
Inch 0.00 = $\pm .01$
0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
[mm] [0.0] = $\pm .13$
[0.00] = $\pm .013$



AGP-8-OR Parallel Gripper

8-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.
- Hole through center facilitates part seating and ejection.
- Available in Imperial only.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Sealed Jaws

Stroke: Spread 1.10 in. adj. [27.9 mm]
Ejecting 0.55 in [13.9 mm]

Gripping Force Per Jaw @ 80 PSI [5.5 BAR]

Spreading Jaw: 200 lbs [889 N]
Ejector Jaw: 310 lbs [1378 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:

	Static	Dynamic
Max Tensile T	100 lbs [445 N]	30 lbs [130 N]
Max Compressive C	100 lbs [445 N]	30 lbs [130 N]

Max Moment M_x 200 in/lb [22 Nm] 50 in/lb [6 Nm]

Max Moment M_y 230 in/lb [23 Nm] 60 in/lb [6 Nm]

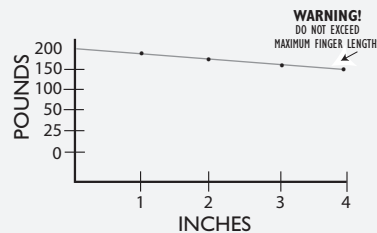
Max Moment M_z 200 in/lb [22 Nm] 50 in/lb [6 Nm]

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

Weight: 8 lbs [3.6 Kg]

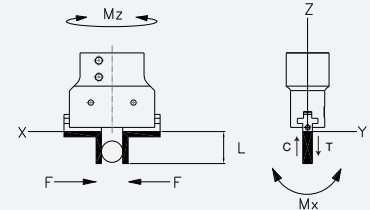
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HOLDING FORCES CHART



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

LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

DESIGN/MODEL

AGP-6-OR
AGP-8-OR

SENSOR TYPE*

1 = NPN
2 = PNP

AGP-8-OR - 3 - 1 - 1

SENSOR OPTIONS

1 = JAW OPEN
2 = EJECTOR DOWN
3 = BOTH

SENSOR CONNECTOR

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

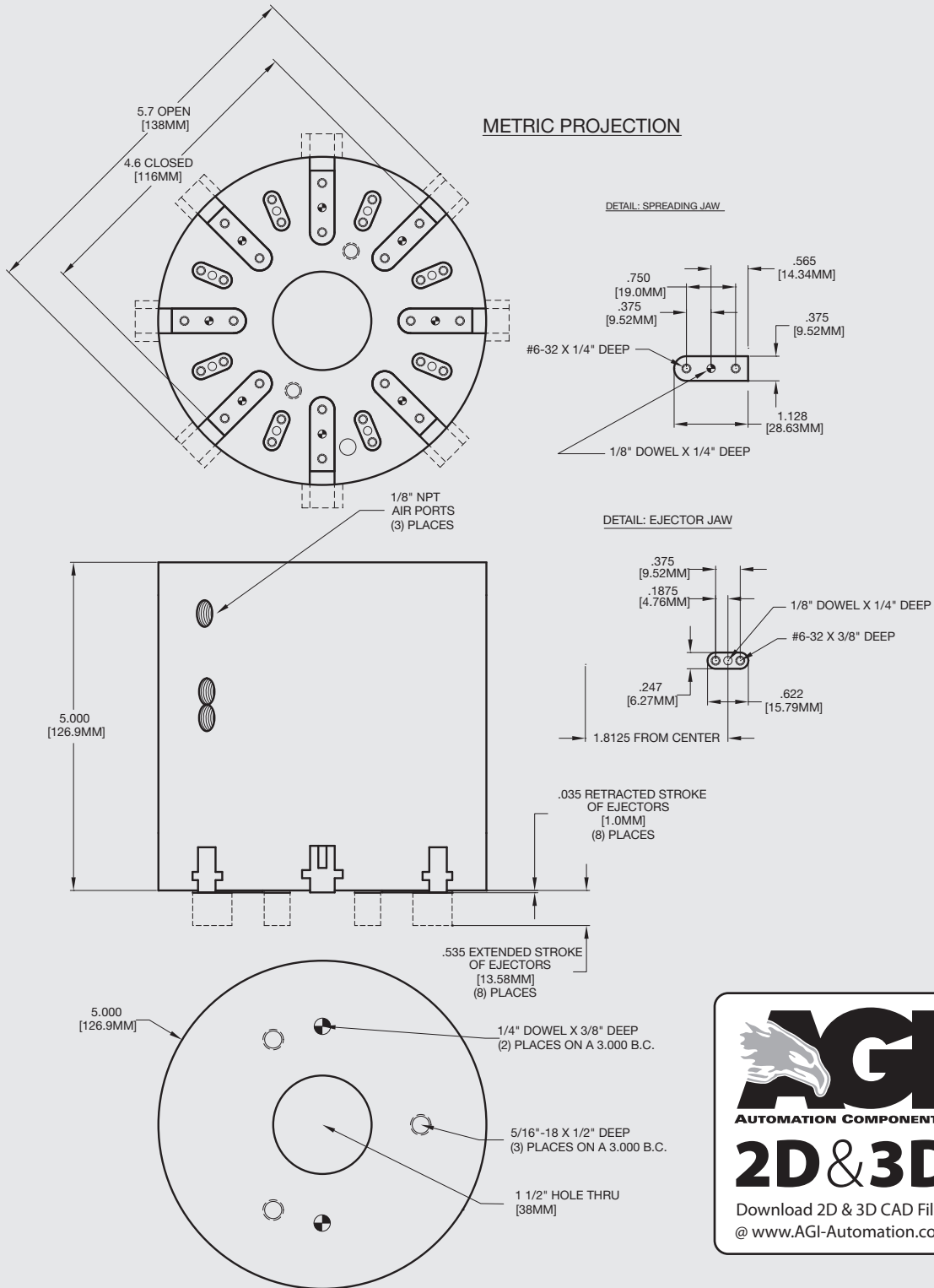
* NOTE: Proximity sensors are 4 mm dia., 12-30 VDC, 50 mA and comes with 2 meter cable.

Sensor Part # SNC06, SNQ06, SPC06, SPQ06



AGP-8-OR Parallel Gripper

8-Finger Gripper for Placing O-Rings, T-Slot Bearing Series



Unless noted, all tolerances are as indicated here:



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



Metric Threads Course Pitch

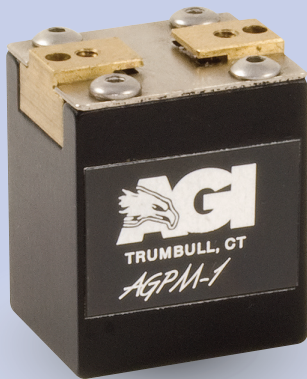
Imperial:
 Inch 0.00 = $\pm .01$
 0.000 = $\pm .005$
 0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
 [mm] [0.0] = $\pm .13$
 [0.00] = $\pm .013$



AGPM-1 Parallel Gripper

Miniature 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.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- AGPM-1 is fully field repairable for cost savings and minimum down time.
- Wedge is guided in the body for precise center repeatability.
- Shielded design for long service life.
- Top porting allows unit to be manifolded, eliminating air fittings.
- Purge port on side of unit to evacuate any contaminants from inside for a clean room environment.
- Available in metric only.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 0.190 in [4.8 mm]

Gripping Force @ 80 PSI [5.5 BAR]

Closing: 9 lbs [40 N]

Opening: 9 lbs [40 N]

Time:

Close: 0.10 sec [0.10 sec]

Open: 0.10 sec [0.10 sec]

Pressure Range:

Low/High 10-100 PSI [7-7 BAR]

Temperature Range:

Low/High -20°/180°F [-28°/80°C]

Side Play: ± 0.001 [0.03 mm]

Repeatability from center:

±.002 [0.06 mm]

Loading Capacity:

	Static	Dynamic
Max Tensile T	20 lbs	7 lbs
	[88 N]	[31 N]

Max Compressive C	20 lbs	7 lbs
	[88 N]	[31 N]

Max Moment M_x	12 in/lb	4 in/lb
	[1 Nm]	[.5 Nm]

Max Moment M_y	15 in/lb	5 in/lb
	[2 Nm]	[.6 Nm]

Max Moment M_z	12 in/lb	4 in/lb
	[1 Nm]	[.5 Nm]

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

Weight: 1.7 oz. [48.1 g]

Piston Diameter: .437 in [11 mm]

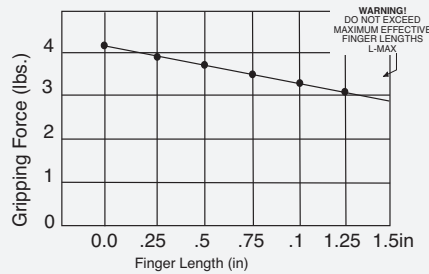
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 1.7 oz. [48.1 g]

Piston Diameter: .437 in [11 mm]

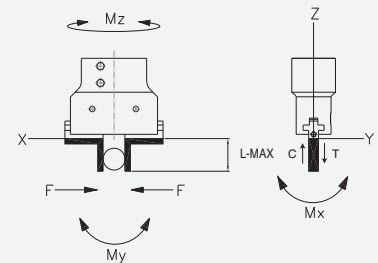
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HOLDING FORCES CHART



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

LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

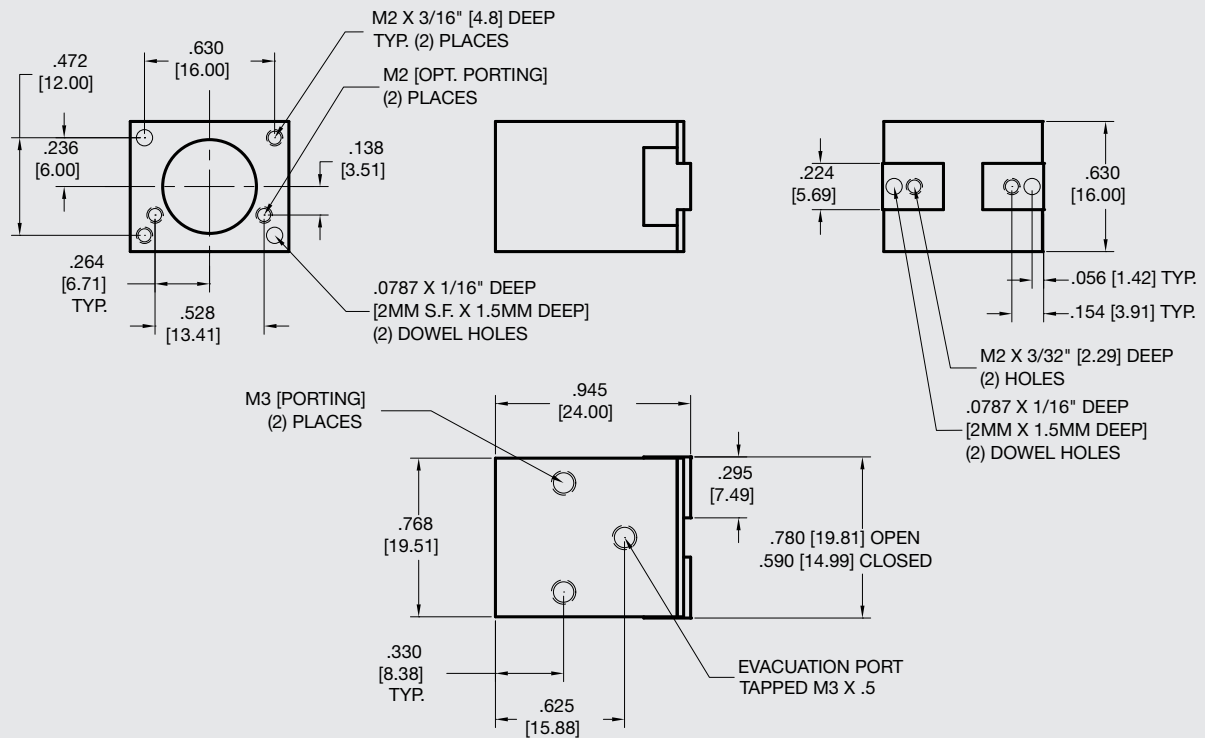
HOW TO ORDER

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

DESIGN/MODEL

AGPM-1

AGPM-1



Unless noted, all tolerances are as indicated here:



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



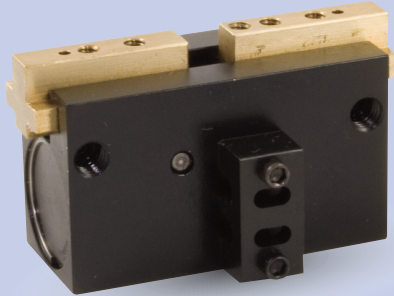
Metric Threads Course Pitch

Imperial:
Inch 0.00 = ± 0.01
0.000 = ± 0.005
0.0000 = ± 0.0005

Metric: [0.] = ± 0.25
[mm] [0.0] = ± 0.13
[0.00] = ± 0.13

AGLP-1 Parallel Gripper

T-Slot Bearing Series, Low Profile



FEATURES AND BENEFITS

- Jaws are T-Slot bearing supported to prevent jaw breakage and offer superior load bearing performance.
- Rugged rack and pinion synchronizing.
- 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.
- AGLP is fully field repairable for cost savings and minimum down time

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 0.25 in [6.4 mm]

Gripping Force @ 80 PSI [5.5 BAR]

Closing: 10 lbs [44 N]
Opening: 10 lbs [44 N]

Time:

Close: 0.12 sec [0.12 sec]
Open: 0.12 sec [0.12 sec]

Pressure Range:

Low/High 10-100 PSI [.7-7 BAR]

Temperature Range:

Low/High -20°/180°F [-28°/80°C]

Side Play: ± 0.001 [.03 mm]

Loading Capacity:

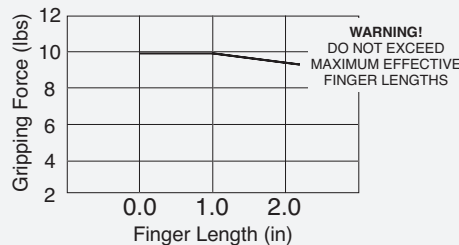
	Static	Dynamic
Max Tensile T	65 lbs [289 N]	20 lbs [89 N]
Max Compressive C	65 lbs [289 N]	20 lbs [89 N]
Max Moment M_x	60 in/lb [6.7 Nm]	15 in/lb [1.6 Nm]
Max Moment M_y	60 in/lb [6.7 Nm]	20 in/lb [2.2 Nm]
Max Moment M_z	60 in/lb [6.7 Nm]	15 in/lb [1.6 Nm]

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

Weight: 2 oz [56 g]

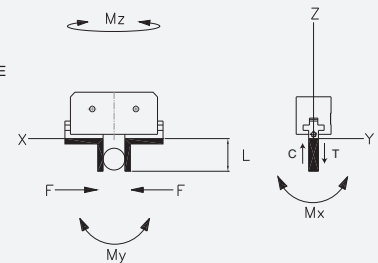
Piston Diameter: .625 in [15.8 mm]

HOLDING FORCES CHART



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

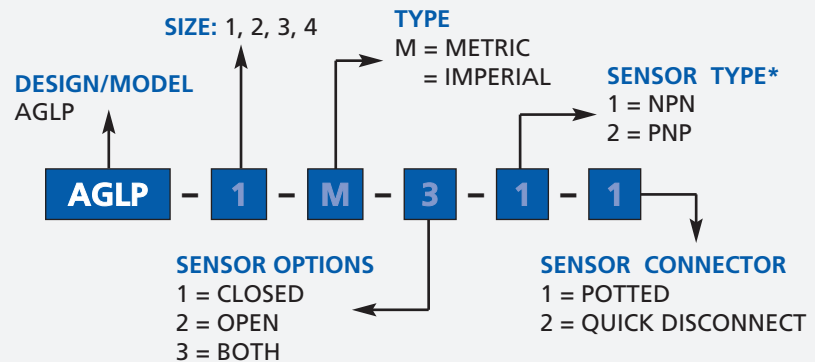
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

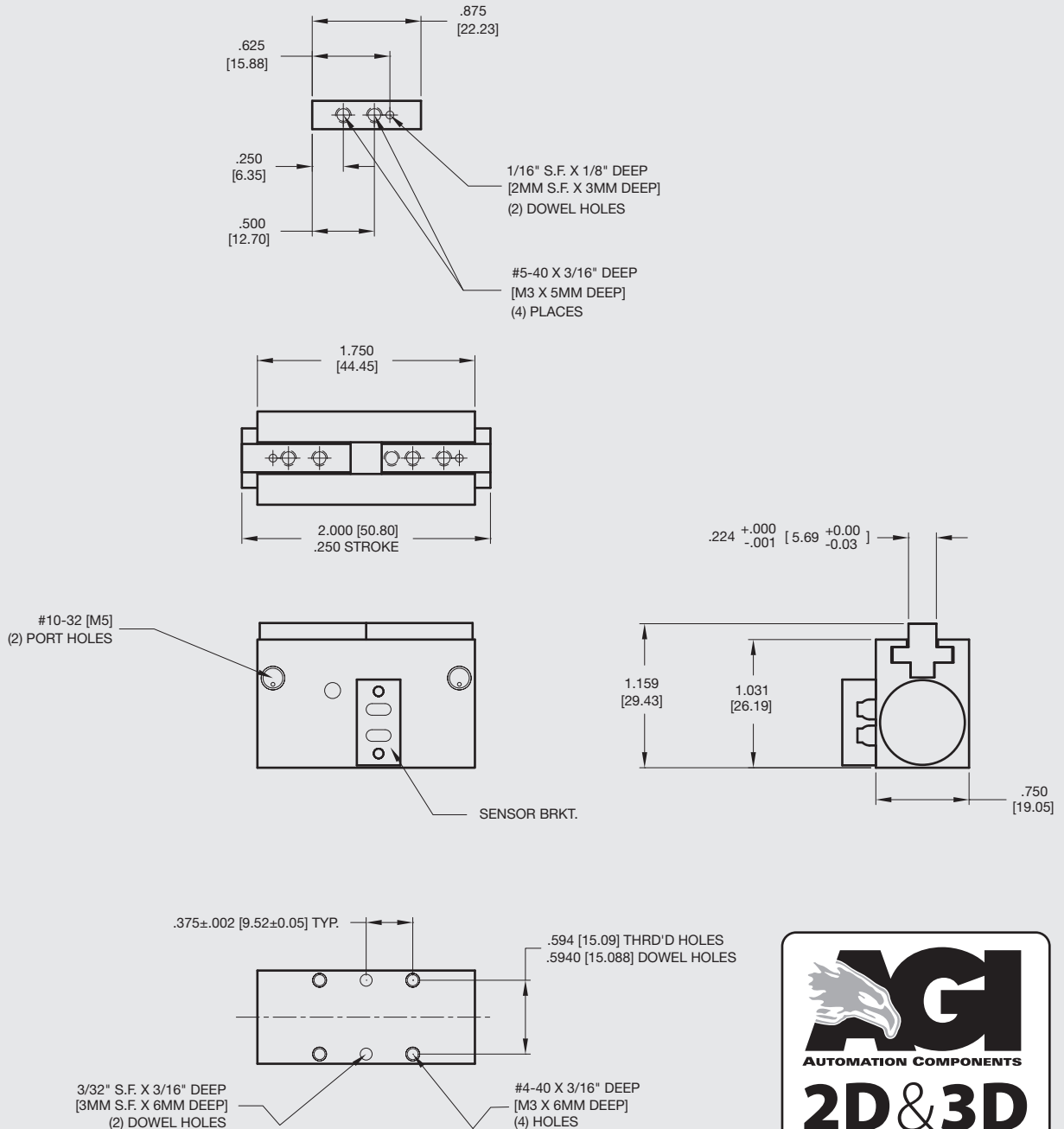
When ordering, please specify: Design/Model Number and Options.



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

Sensor Part # SHN01, SHN03, SHP01, SHP03

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Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]



Metric Threads Course Pitch

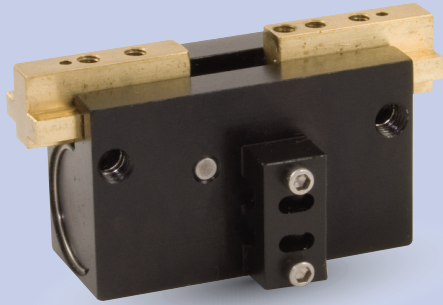
Imperial:
Inch 0.00 = ±.01
0.000 = ±.005
0.0000 = ±.0005

Metric: [0.] = ±.25
[mm] [0.0] = ±.13
[0.00] = ±.013



AGLP-2 Parallel Gripper

T-Slot Bearing Series, Low Profile



FEATURES AND BENEFITS

- Jaws are T-Slot bearing supported to prevent jaw breakage and offer superior load bearing performance.
- Rugged rack and pinion synchronizing.
- 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.
- AGLP is fully field repairable for cost savings and minimum down time

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 0.50 in [12.7 mm]

Gripping Force @ 80 PSI [5.5 BAR]

Closing: 10 lbs [44 N]
 Opening: 10 lbs [44 N]

Time:

Close: 0.12 sec [0.12 sec]
 Open: 0.12 sec [0.12 sec]

Pressure Range:

Low/High 10-100 PSI [.7-7 BAR]

Temperature Range:

Low/High -20°/180°F [-28°/80°C]

Side Play: ± 0.001 [.03 mm]

Loading Capacity:

	Static	Dynamic
Max Tensile T	65 lbs [289 N]	20 lbs [89 N]
Max Compressive C	65 lbs [289 N]	20 lbs [89 N]

Max Moment M_x 60 in/lb [6.7 Nm] 15 in/lb [1.6 Nm]

Max Moment M_y 60 in/lb [6.7 Nm] 20 in/lb [2.2 Nm]

Max Moment M_z 60 in/lb [6.7 Nm] 15 in/lb [1.6 Nm]

Max Moment M_z 60 in/lb [6.7 Nm] 15 in/lb [1.6 Nm]

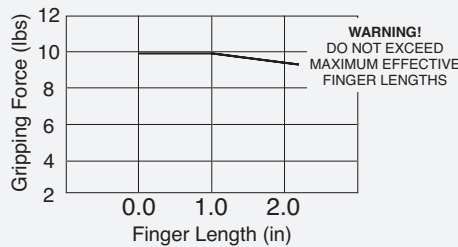
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 2 oz [56 g]

Piston Diameter: .625 in [15.8 mm]

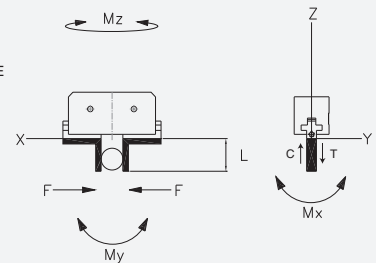
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HOLDING FORCES CHART



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

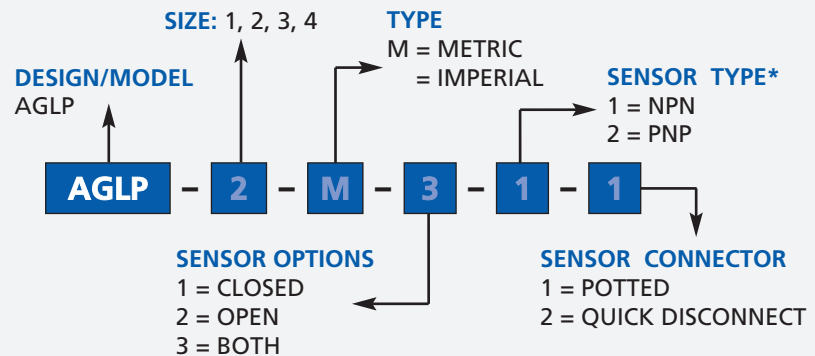
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

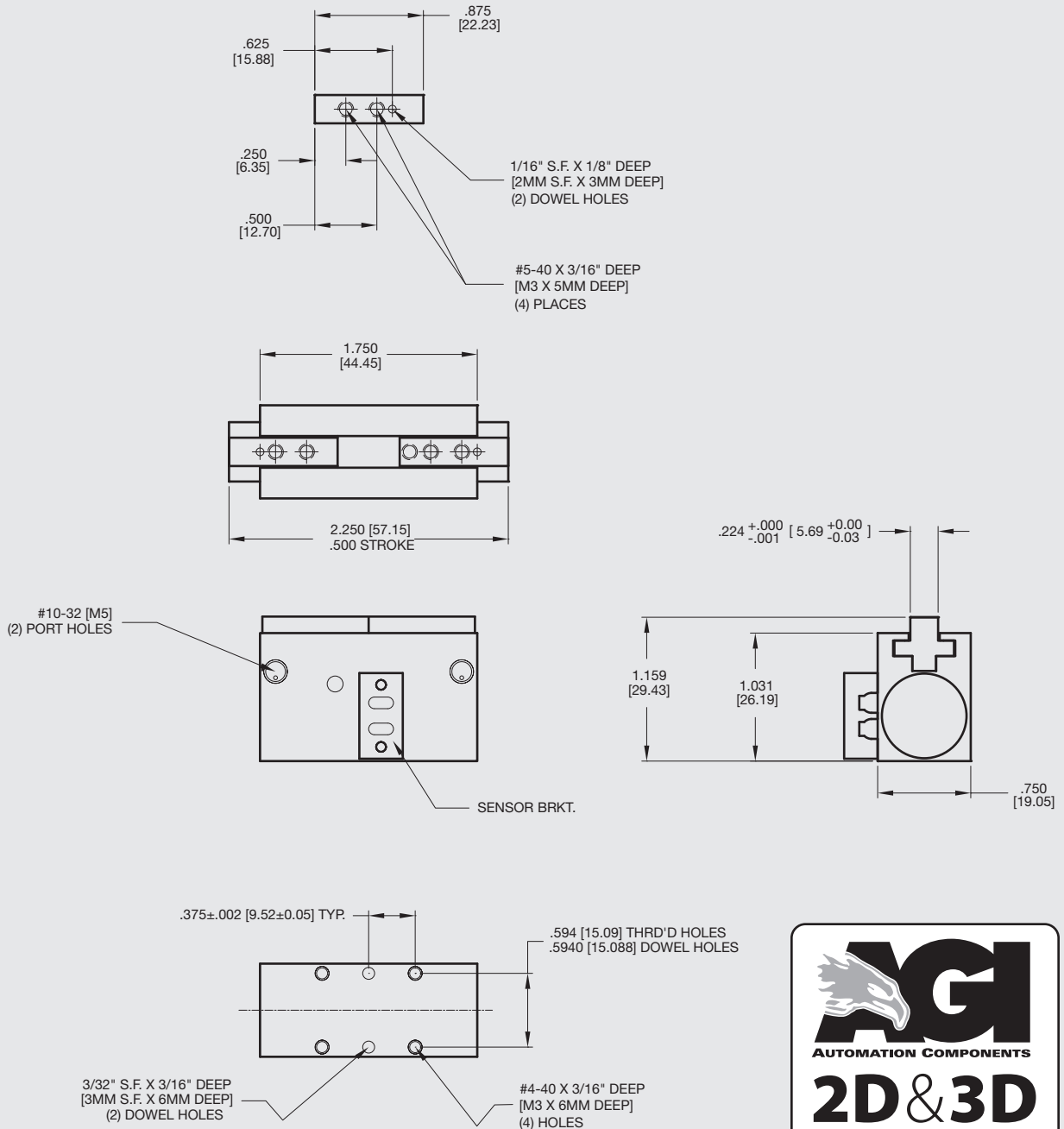
HOW TO ORDER

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 or quick disc.

Sensor Part # SHN01, SHNQ3, SHP01, SHPQ3



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]



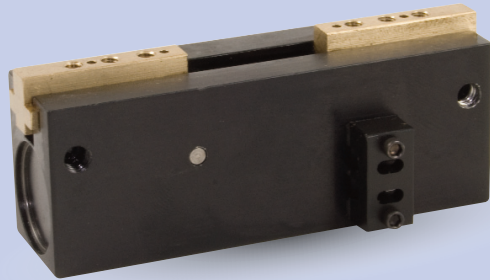
Metric Threads Course Pitch

Imperial:
Inch 0.00 = ±.01
0.000 = ±.005
0.0000 = ±.0005

Metric: [0.] = ±.25
[0.0] = ±.13
[0.00] = ±.013

AGLP-3 Parallel Gripper

T-Slot Bearing Series, Low Profile



FEATURES AND BENEFITS

- Jaws are T-Slot bearing supported to prevent jaw breakage and offer superior load bearing performance.
- Rugged rack and pinion synchronizing.
- 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.
- AGLP is fully field repairable for cost savings and minimum down time.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 0.75 in [19 mm]

Gripping Force @ 80 PSI [5.5 BAR]

Closing: 14 lbs [62 N]
Opening: 14 lbs [62 N]

Time:

Close: 0.12 sec [0.12 sec]
Open: 0.12 sec [0.12 sec]

Pressure Range:

Low/High 10-100 PSI [.7-7 BAR]

Temperature Range:

Low/High -20°/180°F [-28°/80°C]

Side Play: ± 0.001 [.03 mm]

Loading Capacity:

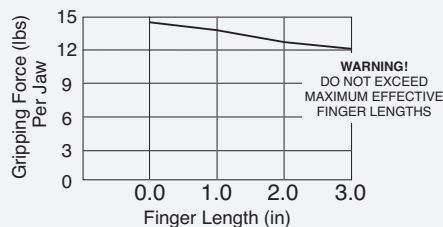
	Static	Dynamic
Max Tensile T	120 lbs [533 N]	40 lbs [177 N]
Max Compressive C	120 lbs [533 N]	40 lbs [177 N]
Max Moment M_x	75 in/lb [8.5 Nm]	25 in/lb [2.8 Nm]
Max Moment M_y	100 in/lb [11.3 Nm]	35 in/lb [3.9 Nm]
Max Moment M_z	75 in/lb [8.5 Nm]	25 in/lb [2.8 Nm]

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

Weight: 5 oz [142 g]

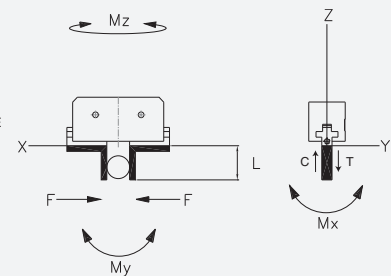
Piston Diameter: 0.700 in [17.7 mm]

HOLDING FORCES CHART



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

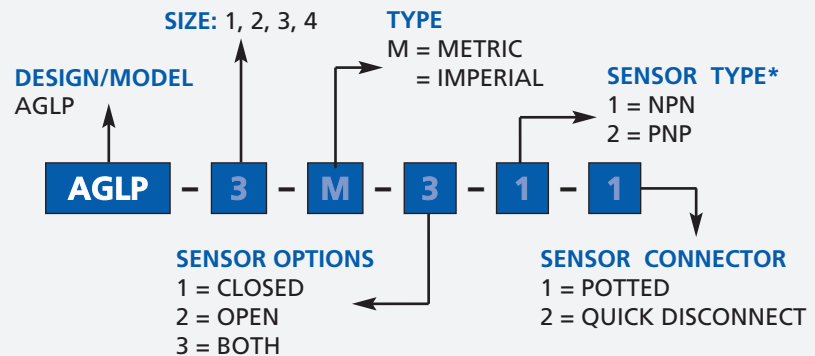
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

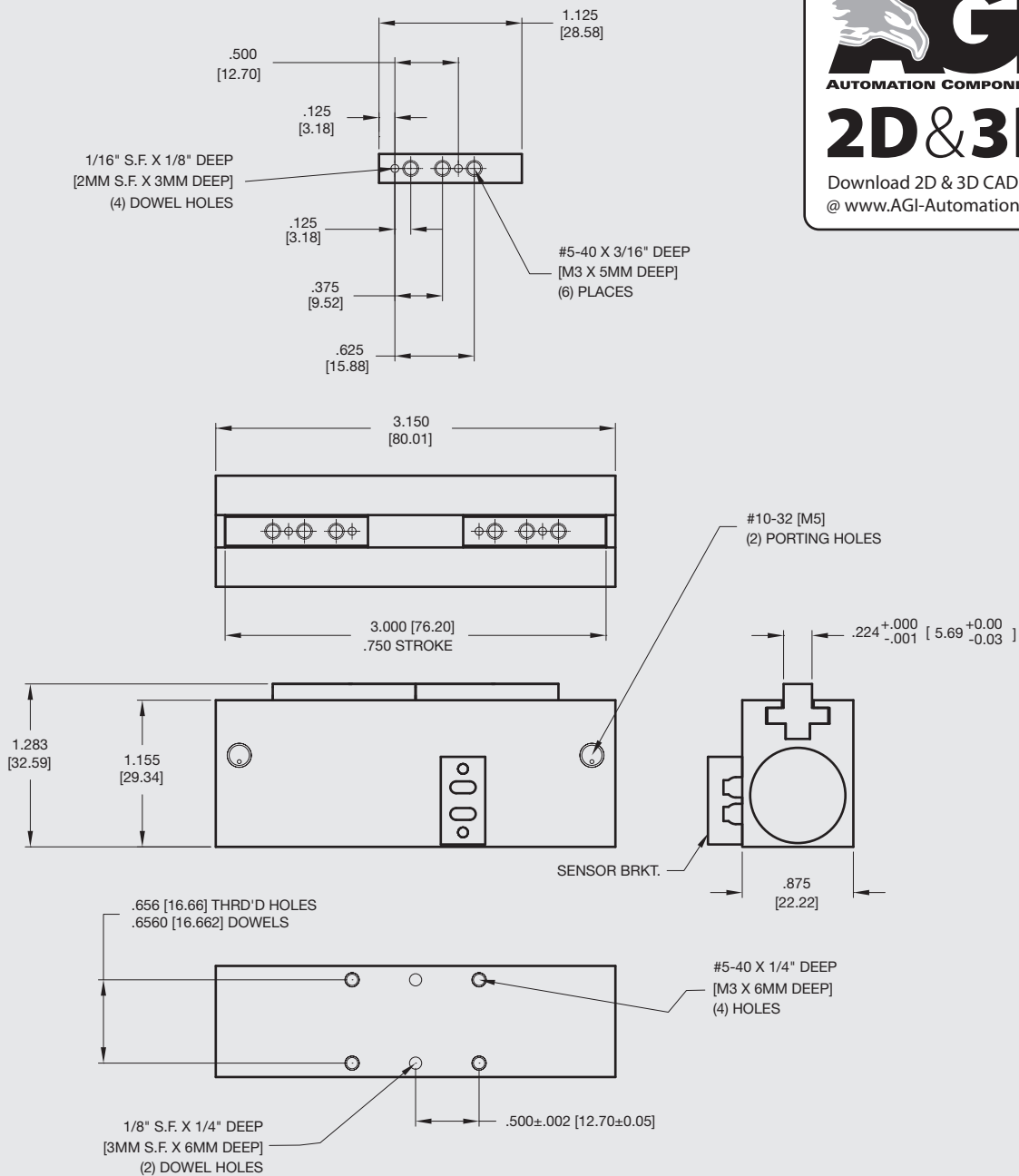
When ordering, please specify: Design/Model Number and Options.



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

Sensor Part # SHN01, SHNQ3, SHP01, SHPQ3

January 2009 - PATENTED Made in the USA



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.013mm]



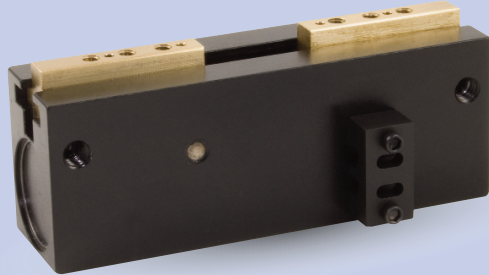
Metric Threads Course Pitch

Imperial:
Inch 0.00 = ±.01
0.000 = ±.005
0.0000 = ±.0005

Metric: [0.] = ±.25
[0.0] = ±.13
[0.00] = ±.013

AGLP-4 Parallel Gripper

T-Slot Bearing Series, Low Profile



FEATURES AND BENEFITS

- Jaws are T-Slot bearing supported to prevent jaw breakage and offer superior load bearing performance.
- Rugged rack and pinion synchronizing.
- 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.
- AGLP is fully field repairable for cost savings and minimum down time

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 1.00 in [25.4 mm]

Gripping Force @ 80 PSI [5.5 BAR]

Closing: 14 lbs [62 N]
Opening: 14 lbs [62 N]

Time:

Close: 0.12 sec [0.12 sec]
Open: 0.12 sec [0.12 sec]

Pressure Range:

Low/High 10-120 PSI [.7-7 BAR]

Temperature Range:

Low/High -20°/180°F [-28°/80°C]

Side Play: ± 0.001 [.03 mm]

Loading Capacity:

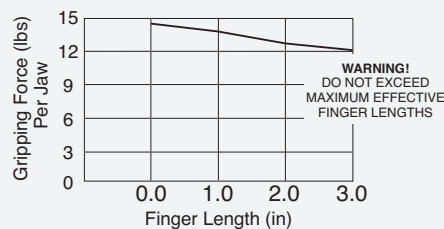
	Static	Dynamic
Max Tensile T	120 lbs [533 N]	40 lbs [177 N]
Max Compressive C	120 lbs [533 N]	40 lbs [177 N]
Max Moment M_x	75 in/lb [8.5 Nm]	25 in/lb [2.8 Nm]
Max Moment M_y	100 in/lb [11.3 Nm]	35 in/lb [3.9 Nm]
Max Moment M_z	75 in/lb [8.5 Nm]	25 in/lb [2.8 Nm]

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

Weight: 5 oz [142 g]

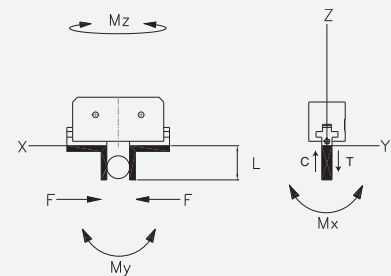
Piston Diameter: 0.700 in [17.7 mm]

HOLDING FORCES CHART



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

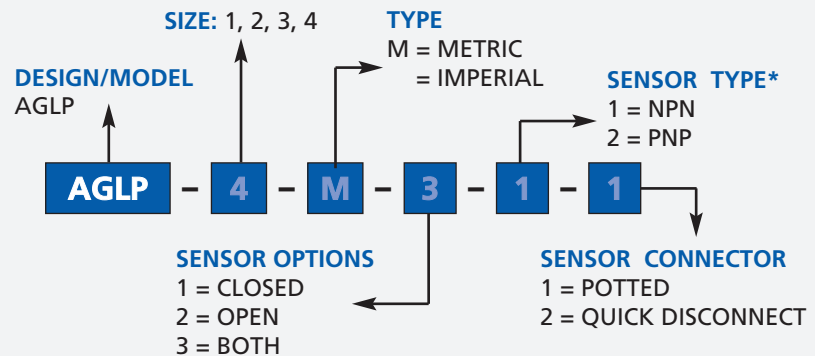
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

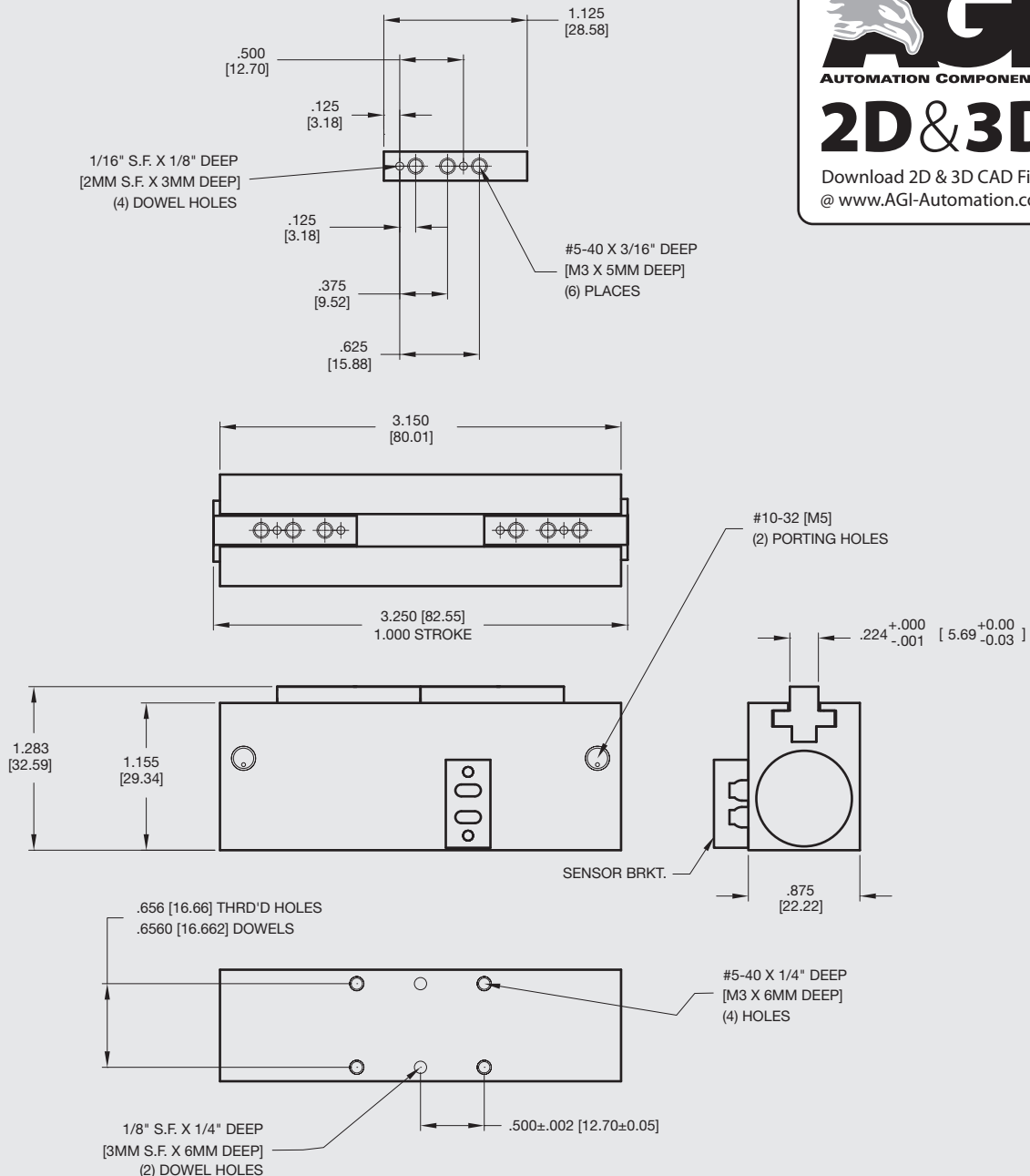
When ordering, please specify: Design/Model Number and Options.



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

Sensor Part # SHN01, SHNQ3, SHP01, SHPQ3

January 2009 - PATENTED Made in the USA



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]



Metric Threads Course Pitch

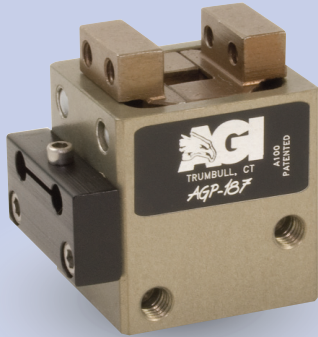
Imperial:
Inch 0.00 = ±.01
0.000 = ±.005
0.0000 = ±.0005

Metric: [0.] = ±.25
[0.0] = ±.13
[0.00] = ±.013



AGP-187 Parallel Gripper

Double Guided Wedge



FEATURES AND BENEFITS

- Jaws machined from S7 tool steel to prevent jaw breakage.
- Ultra high gripping force to weight ratio.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, this allowing for compliance with OSHA regulations.
- Additional side mounting holes and side air ports for optional mounting and porting available.
- Proximity switches are available to monitor open and closed position of the jaws.
- Fully field repairable for cost savings and minimum down time.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 0.16 in [4 mm]

Gripping Force @ 80 PSI [5.5 bar]:

Close: 15 lbs [66 N]

Opening: 16 lbs [71 N]

Time:

Close: 0.15 sec [0.15 sec]

Open: 0.15 sec [0.15 sec]

Pressure Range: 20-120 PSI [1.3-8 bar]

Temperature Range: -20°-180°F [-28°-80°C]

Side Play: ± 0.001 [0.03 mm]

Repeatability from center:
±.002 [0.06 mm]

Loading Capacity:

	Static	Dynamic
Max Tensile T	50 lbs [222 N]	7 lbs [31 N]
Max Compressive C	75 lbs [333 N]	12 lbs [53 N]

	Static	Dynamic
Max Moment Mx	30 in/lb [3.4 Nm]	5 in/lb [0.6 Nm]
Max Moment My	30 in/lb [3.4 Nm]	5 in/lb [0.6 Nm]
Max Moment Mz	30 in/lb [3.4 Nm]	5 in/lb [0.6 Nm]

	Static	Dynamic
Max Moment Mx	30 in/lb [3.4 Nm]	5 in/lb [0.6 Nm]
Max Moment My	30 in/lb [3.4 Nm]	5 in/lb [0.6 Nm]
Max Moment Mz	30 in/lb [3.4 Nm]	5 in/lb [0.6 Nm]

	Static	Dynamic
Max Moment My	30 in/lb [3.4 Nm]	5 in/lb [0.6 Nm]
Max Moment Mz	30 in/lb [3.4 Nm]	5 in/lb [0.6 Nm]

	Static	Dynamic
Max Moment Mz	30 in/lb [3.4 Nm]	5 in/lb [0.6 Nm]

	Static	Dynamic
Max Moment Mz	30 in/lb [3.4 Nm]	5 in/lb [0.6 Nm]

	Static	Dynamic
Max Moment Mz	30 in/lb [3.4 Nm]	5 in/lb [0.6 Nm]

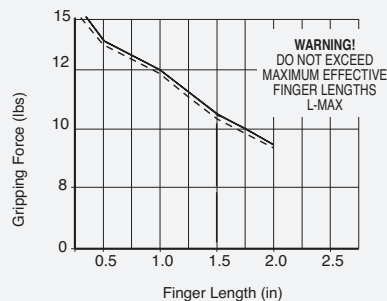
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 3 oz. [85 g]

Piston Diameter: 0.75 in [19 mm]

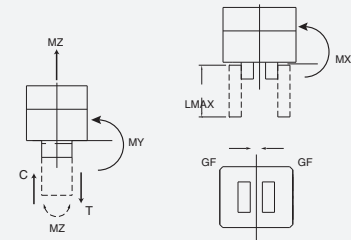
January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



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

LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

DESIGN/MODEL
AGP-250

TYPE
M = METRIC
= IMPERIAL

SENSOR TYPE*
1 = NPN
2 = PNP

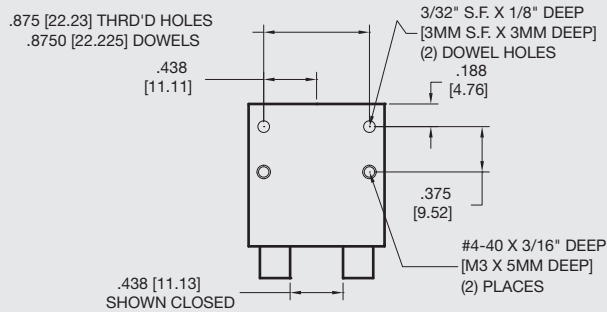
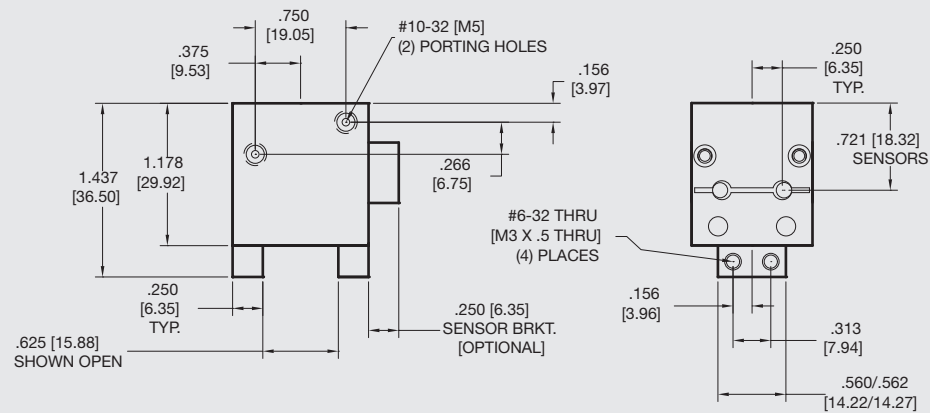
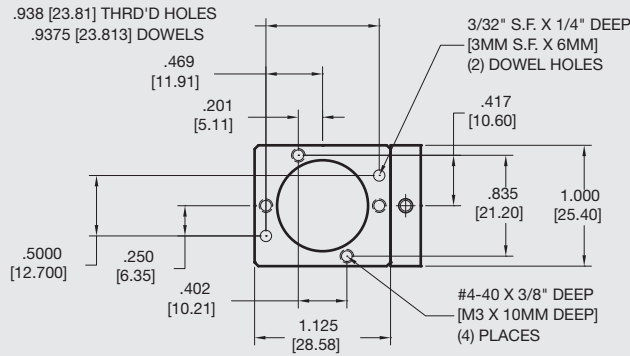
AGP-187 - M - 3 - 1 - 1

SENSOR OPTIONS
1 = CLOSED
2 = OPEN
3 = BOTH

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

* NOTE: Proximity sensors are 4 mm dia., 12-30 VDC, 50 mA and comes with 2 meter cable or quick disc.

Sensor Part # SNC04, SNQ04, SPC04, SPQ04



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]



Metric Threads Course Pitch

Imperial: Inch

0.00 = ±.01
0.000 = ±.005
0.0000 = ±.0005

Metric: [0.] = ±.25
[0.0] = ±.13
[0.00] = ±.013

AGP-250 Parallel Gripper

Double Guided Wedge



FEATURES AND BENEFITS

- Jaws machined from S7 tool steel to prevent jaw breakage.
- Ultra high gripping force to weight ratio.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, this allowing for compliance with OSHA regulations.
- Additional side mounting holes and side air ports for optional mounting and porting available.
- Proximity switches are available to monitor open and closed position of the jaws.
- Fully field repairable for cost savings and minimum down time.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 0.25 in [6.3 mm]

Gripping Force @ 80 PSI [5.5 bar]:

Close: 20 lbs [89 N]

Opening: 22 lbs [97 N]

Time:

Close: 0.2 sec [0.2 sec]

Open: 0.2 sec [0.2 sec]

Pressure Range: 30-120 PSI [2-8 bar]

Temperature Range: -20°-180°F [-28°-80°C]

Side Play: ± 0.001 [0.03 mm]

Repeatability from center:
±.002 [0.06 mm]

Loading Capacity:

	Static	Dynamic
Max Tensile T	100 lbs [444 N]	15 lbs [66.7 N]
Max Compressive C	150 lbs [667 N]	25 lbs [111 N]

	90 in/lb [10 Nm]	15 in/lb [1.7 Nm]
Max Moment Mx	90 in/lb [10 Nm]	15 in/lb [1.7 Nm]
Max Moment My	90 in/lb [10 Nm]	15 in/lb [1.7 Nm]
Max Moment Mz	90 in/lb [10 Nm]	15 in/lb [1.7 Nm]

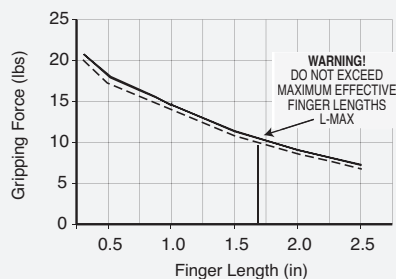
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 4 oz. [113 g]

Piston Diameter: 1.00 in [25.4 mm]

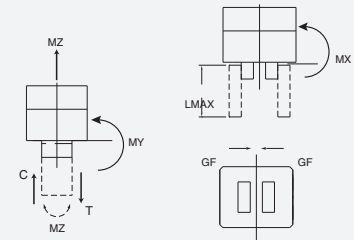
January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



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

LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

DESIGN/MODEL
AGP-250

TYPE
M = METRIC
= IMPERIAL

SENSOR TYPE*

1 = NPN

2 = PNP

OPTIONAL PORT

AGP-250 - **M** - **3** - **1** - **1** - **OP**

SENSOR OPTIONS

1 = CLOSED

2 = OPEN

3 = BOTH

SENSOR CONNECTOR

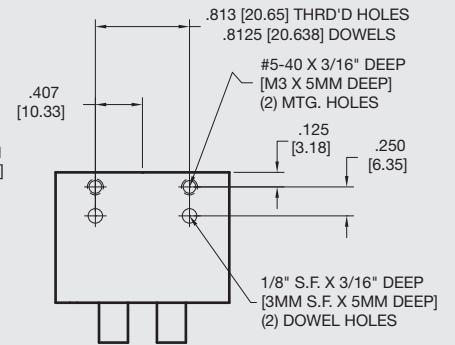
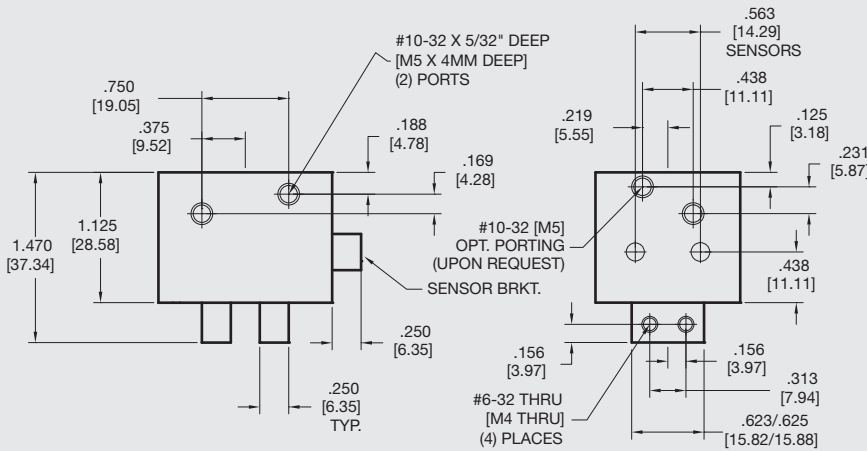
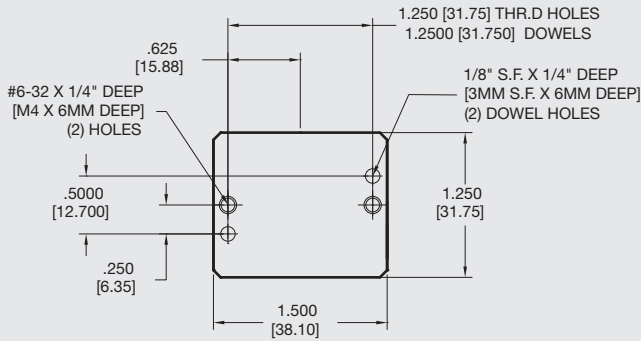
1 = POTTED

2 = QUICK DISCONNECT

3 = QUICK DISCONNECT WITH RIGHT ANGLE

* NOTE: Proximity sensors are 4 mm dia., 12-30 VDC, 50 mA and comes with 2 meter cable or quick disc.

Sensor Part # SNC04, SNQ04, SPC04, SPQ04



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance $\pm .0005"$ [0.13mm]



Metric Threads Course Pitch

Imperial:
Inch

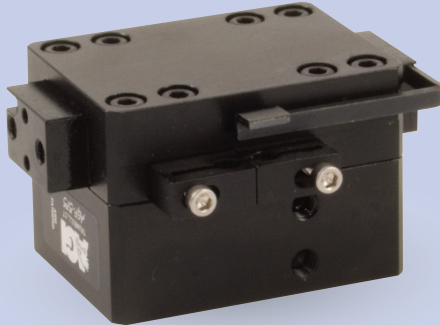
0.00 = $\pm .01$
0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric:
[0.] = $\pm .25$
[mm] [0.0] = $\pm .13$
[0.00] = $\pm .013$



AGP-375 Parallel Gripper

Double Guided Wedge



FEATURES AND BENEFITS

- Ultra high gripping force to weight ratio.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, this allowing for compliance with OSHA regulations.
- Additional side mounting holes and side air ports for optional mounting and porting available.
- Proximity switches are available to monitor open and closed position of the jaws.
- Fully field repairable for cost savings and minimum down time.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 0.375 in [9.5 mm]

Gripping Force @ 80 PSI [5.5 bar]:

Closing: 20 lbs [89 N]

Opening: 22 lbs [97 N]

Time:

Close: 0.2 sec [0.2 sec]

Open: 0.2 sec [0.2 sec]

Pressure Range: 30-120 PSI [2-8 bar]

Temperature Range: -20°-180°F [-28°-80°C]

Side Play: ± 0.001 [0.03 mm]

Repeatability from center: ±.002 [0.06 mm]

Loading Capacity:

	Static	Dynamic
Max Tensile T	200 lbs [889 N]	25 lbs [111 N]
Max Compressive C	400 lbs [1780 N]	25 lbs [111 N]

Max Moment Mx 150 in/lb [17 Nm] 25 in/lb [2.8 Nm]

Max Moment My 150 in/lb [17 Nm] 25 in/lb [2.8 Nm]

Max Moment Mz 150 in/lb [17 Nm] 25 in/lb [2.8 Nm]

Max Moment Mz 150 in/lb [17 Nm] 25 in/lb [2.8 Nm]

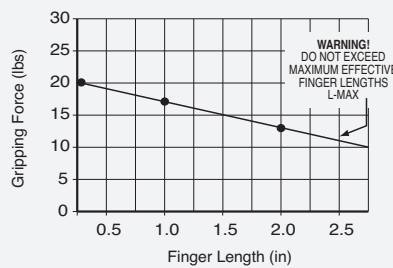
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 7 oz. [198 g]

Piston Diameter: 1.00 in [25.4 mm]

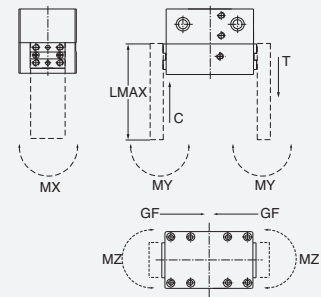
January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



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

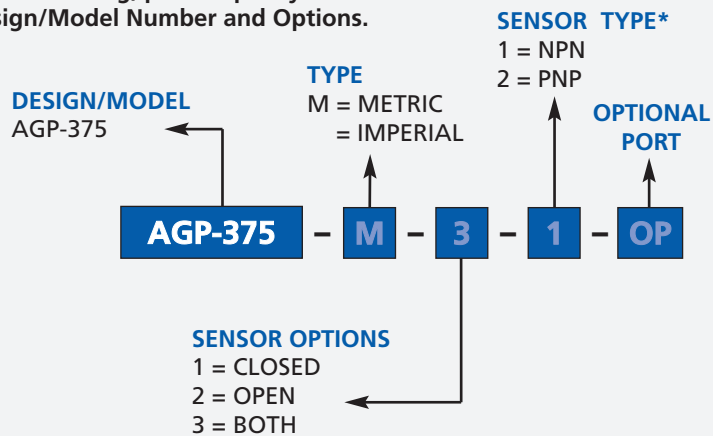
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

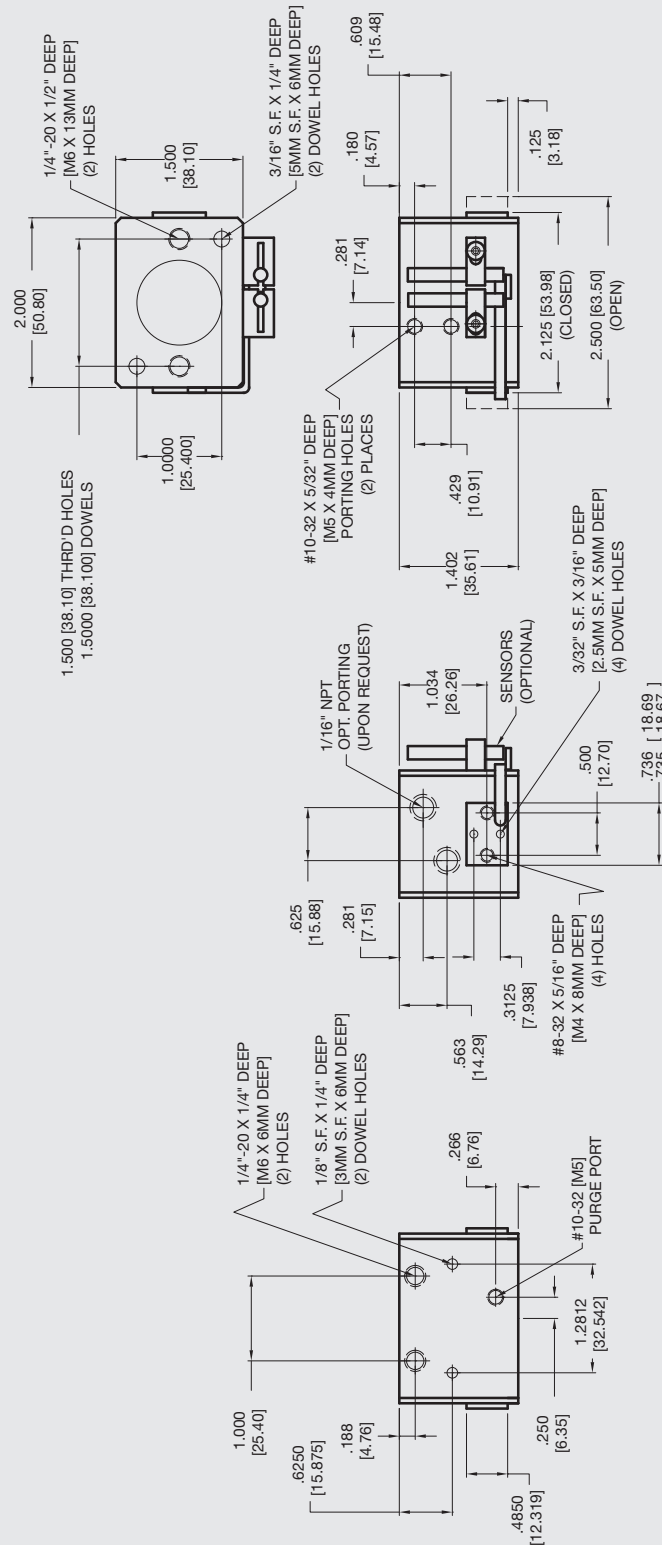


* NOTE: Proximity sensors are 4 mm dia., 12-30 VDC, 50 mA and comes with 2 meter cable or quick disc.

Sensor Part # SNC04, SPC04

AGP-375 Parallel Gripper

Double Guided Wedge



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance $\pm .0005"$ [0.13mm]



Metric Threads Course Pitch

Imperial:
Inch 0.00 = $\pm .01$
0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
[0.0] = $\pm .13$
[0.00] = $\pm .013$



AGP-500 Parallel Gripper

Double Guided Wedge



FEATURES AND BENEFITS

- Ultra high gripping force to weight ratio.
- True parallel jaw motion for easy tooling.
- Totally sealed unit with air purge:
 - (i) can be slightly pressurized to prevent debris or coolant from entering.
 - (ii) a vacuum can be applied to evacuate any contaminants from inside the unit in a clean room environment.
- Units are permanently lubricated for non-lube air operation, this allowing for compliance with OSHA regulations.
 - Additional side mounting holes & air ports for optional mounting/porting are available.
- Proximity switches are available to monitor open/closed position of the jaws.
- Fully field repairable for cost savings and minimum down time.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 0.50 in [12.7 mm]

Gripping Force @ 80 PSI [5.5 bar]:

Close: 37 lbs [164 N]

Open: 40 lbs [178 N]

Time:

Close: 0.2 sec [0.2 sec]

Open: 0.2 sec [0.2 sec]

Pressure Range: 30-120 PSI [2-8 bar]

Temperature Range: -20°-180°F [-28°-80°C]

Side Play: ± 0.001 [0.03 mm]

Repeatability from center: ±.002 [0.06 mm]

Loading Capacity:

	Static	Dynamic
Max Tensile T	400 lbs [1780 N]	50 lbs [222 N]
Max Compressive C	750 lbs [3336 N]	50 lbs [222 N]

	Static	Dynamic
Max Moment Mx	300 in/lb [34 Nm]	50 in/lb [5.6 Nm]
Max Moment My	300 in/lb [34 Nm]	50 in/lb [5.6 Nm]
Max Moment Mz	300 in/lb [34 Nm]	50 in/lb [5.6 Nm]

	Static	Dynamic
Max Moment Mx	300 in/lb [34 Nm]	50 in/lb [5.6 Nm]
Max Moment My	300 in/lb [34 Nm]	50 in/lb [5.6 Nm]
Max Moment Mz	300 in/lb [34 Nm]	50 in/lb [5.6 Nm]

	Static	Dynamic
Max Moment My	300 in/lb [34 Nm]	50 in/lb [5.6 Nm]
Max Moment Mz	300 in/lb [34 Nm]	50 in/lb [5.6 Nm]

	Static	Dynamic
Max Moment Mz	300 in/lb [34 Nm]	50 in/lb [5.6 Nm]

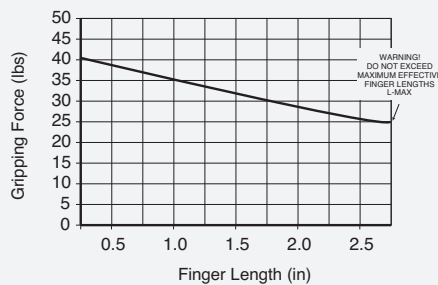
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 11 oz. [311 g]

Piston Diameter: 1.25 in [31.75 mm]

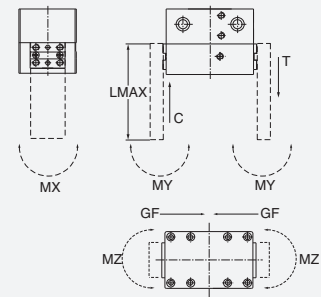
January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



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

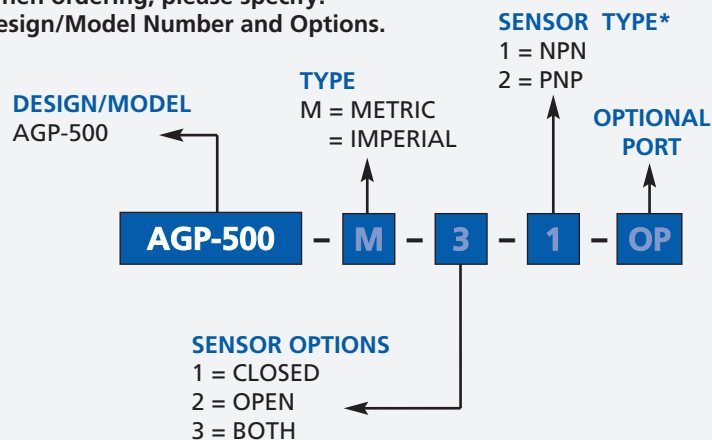
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

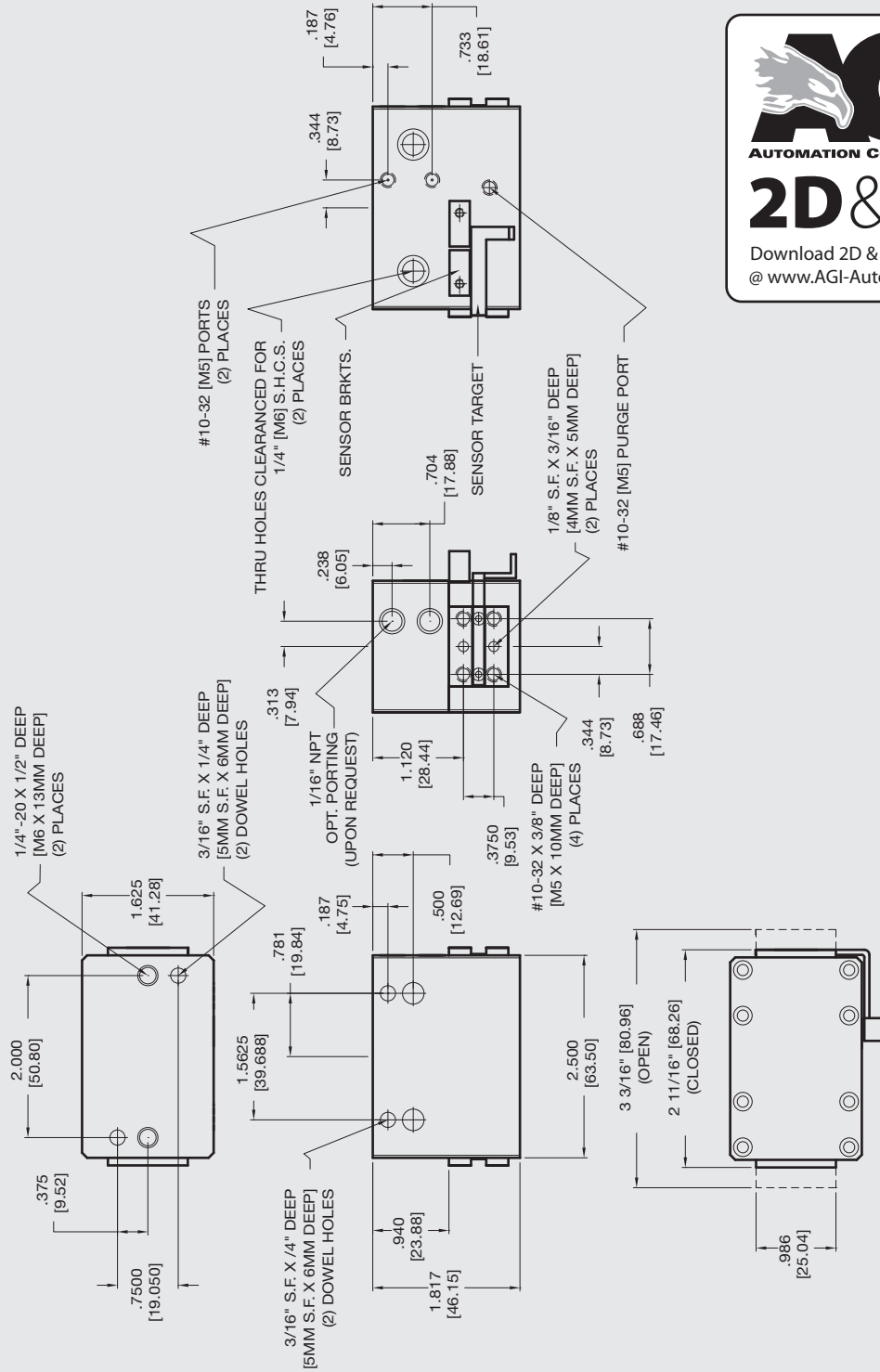
HOW TO ORDER

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



* NOTE: Proximity sensors are 4 mm dia., 12-30 VDC, 50 mA and comes with 2 meter cable or quick disc.

Sensor Part # SNC04, SPC04



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance $\pm .0005"$ [0.13mm]



Metric Threads Course Pitch

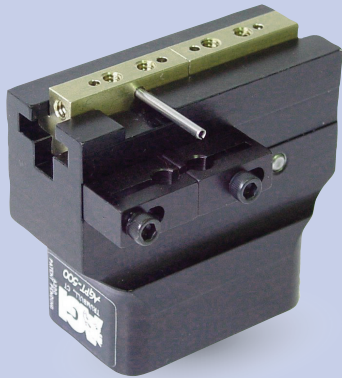
Imperial:
Inch 0.00 = $\pm .01$
0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
[0.0] = $\pm .13$
[0.00] = $\pm .013$



AGPT-500 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.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Proximity switches are available to monitor open and closed position of the jaws.
- AGPT is fully field repairable for cost savings and minimum down time.
- Linkage is guided in the body for precise center repeatability.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 0.50 in [12.7 mm]

Gripping Force Per Jaw @ 80 PSI [5.5 BAR]

Closing: 10 PSI [44 N]

Opening: 12 PSI [53 N]

Time:

Close: 0.12 sec [0.12 sec]

Open: 0.12 sec [0.12 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:

	Static	Dynamic
Max Tensile T	50 lbs [222 N]	15 lbs [66.7 N]
Max Compressive C	50 lbs [222 N]	15 lbs [66.7 N]

Max Moment M_x 50 in/lb [5.6 Nm] 12 in/lb [1.3 Nm]

Max Moment M_y 60 in/lb [6.7 Nm] 15 in/lb [1.7 Nm]

Max Moment M_z 50 in/lb [5.6 Nm] 12 in/lb [1.3 Nm]

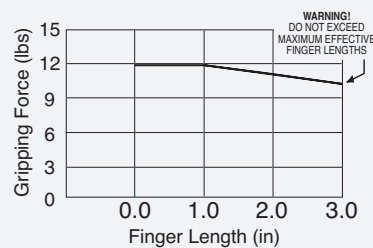
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 5 oz [142 g]

Piston Diameter: 0.625 in [15.8 mm]

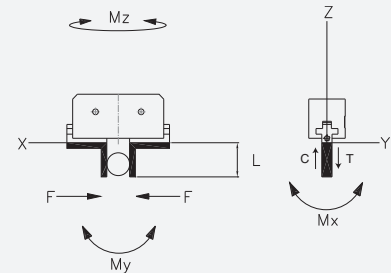
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HOLDING FORCES CHART



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

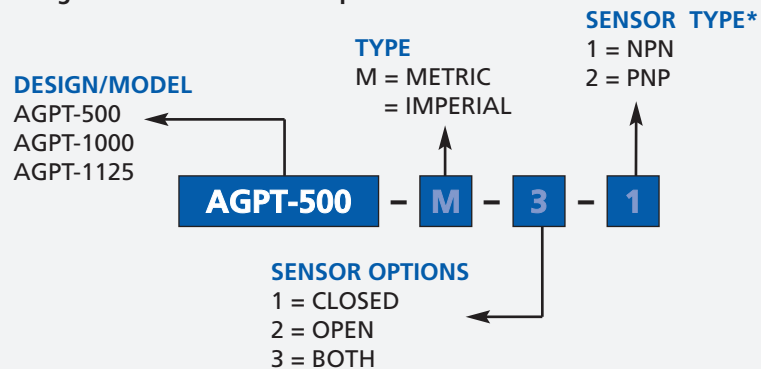
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

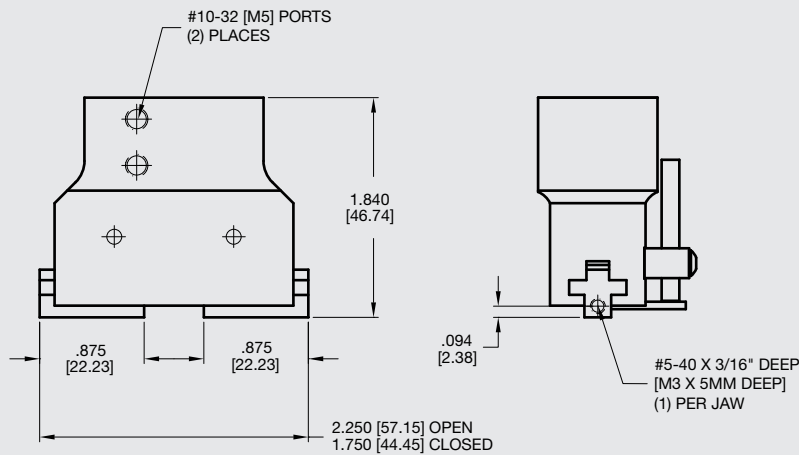
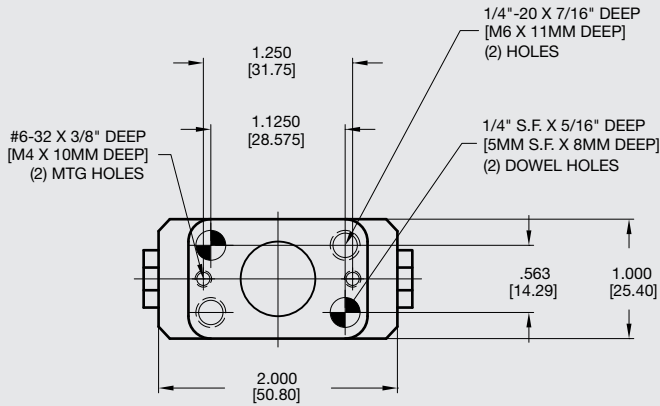
HOW TO ORDER

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

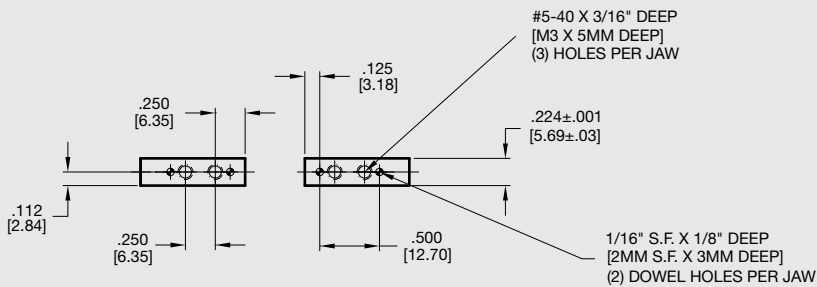
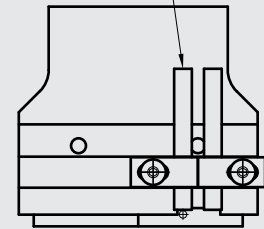


* NOTE: Proximity 4mm dia., 5-24 VDC, 22 mA and comes with 2 meter cable.

Sensor Part # SNC04, SPC04



SENSORS (OPTIONAL)



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.013mm]



Metric Threads Course Pitch

Imperial: Inch

0.00 = ±.01
0.000 = ±.005
0.0000 = ±.0005

Metric: [0.] = ±.25
[0.0] = ±.13
[0.00] = ±.013

AGPT-1000 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.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Proximity switches are available to monitor open and closed position of the jaws.
- AGPT is fully field repairable for cost savings and minimum down time.
- Linkage is guided in the body for precise center repeatability.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 1.0 in [25.4 mm]

Gripping Force Per Jaw @ 80 PSI [5.5 BAR]

Close: 15 PSI [67 N]

Opening: 17 PSI [75 N]

Time:

Close: 0.20 sec [0.20 sec]

Open: 0.20 sec [0.20 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 [0.03 mm]

Repeatability

from Center: ± 0.001 [0.03 mm]

Loading Capacity:

	Static	Dynamic
Max Tensile T	60 lbs [266 N]	20 lbs [88.9 N]
Max Compressive C	60 lbs [266 N]	20 lbs [88.9 N]

Max Moment M_x 100 in/lb [11.3 Nm] 25 in/lb [2.8 Nm]

Max Moment M_y 120 in/lb [13.5 Nm] 30 in/lb [3.4 Nm]

Max Moment M_z 100 in/lb [11.3 Nm] 25 in/lb [2.8 Nm]

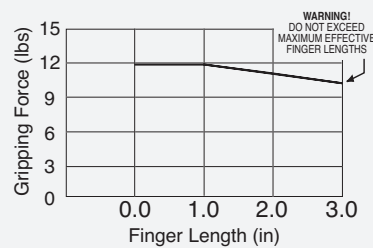
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 8 oz [226 g]

Piston Diameter: 0.75 in [19 mm]

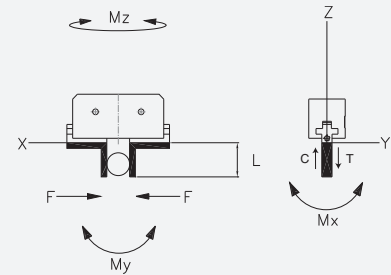
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HOLDING FORCES CHART



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

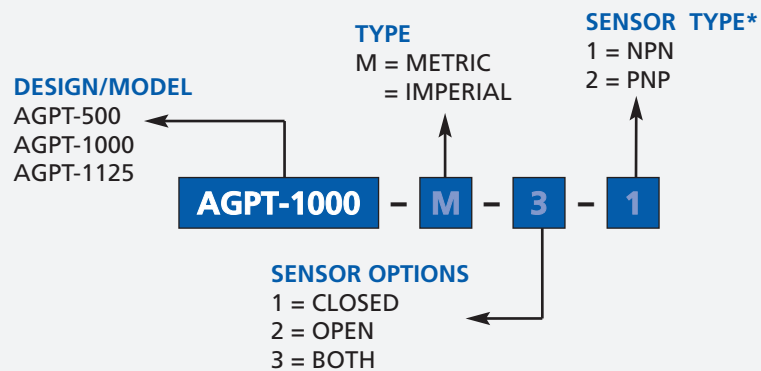
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

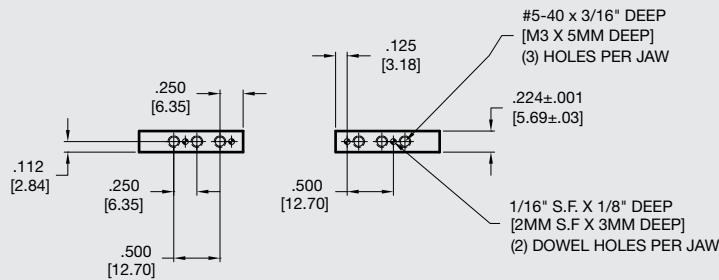
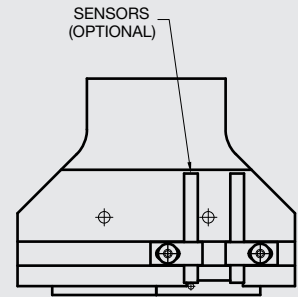
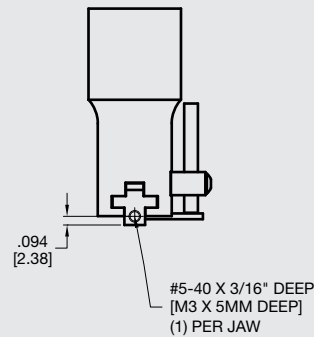
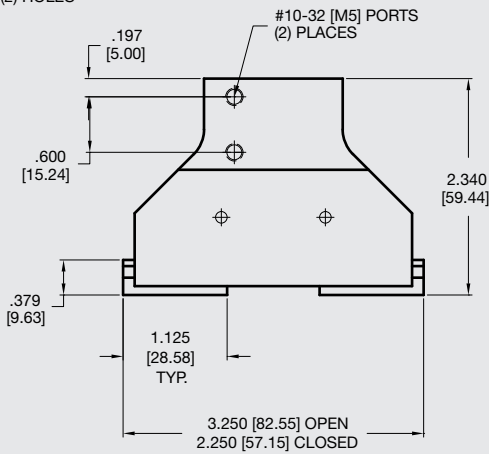
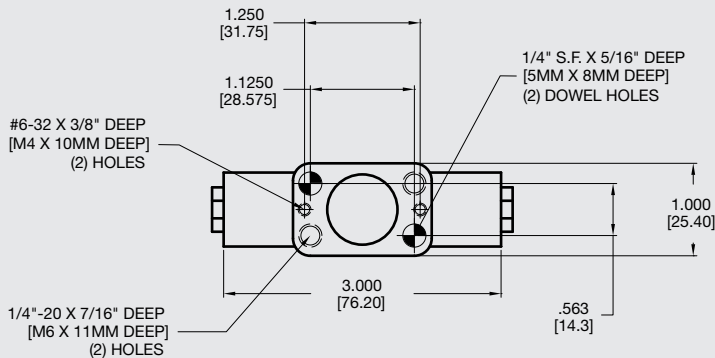
HOW TO ORDER

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



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

Sensor Part # SNC04, SPC04



Unless noted, all tolerances are as indicated here:



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



Metric Threads Course Pitch

Imperial:
Inch

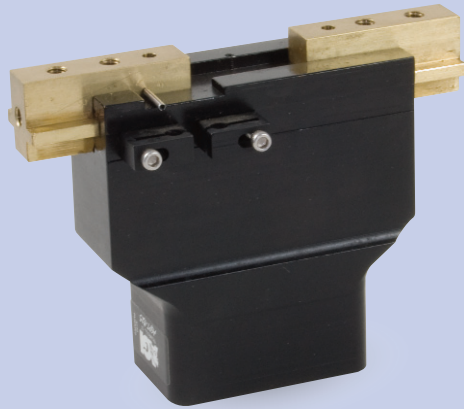
0.00 = ±.01
0.000 = ±.005
0.0000 = ±.0005

Metric:
[0.] = ±.25
[0.0] = ±.13
[0.00] = ±.013



AGPT-1125 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.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Proximity switches are available to monitor open and closed position of the jaws.
- AGPT is fully field repairable for cost savings and minimum down time.
- Linkage is guided in the body for precise center repeatability.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 1.125 in [28.6 mm]

Gripping Force Per Jaw @ 80 PSI [5.5 BAR]

Closing: 30 PSI [133 N]

Opening: 27 PSI [120 N]

Time:

Close: 0.20 sec [0.20 sec]

Open: 0.20 sec [0.20 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 [0.03 mm]

Repeatability from Center:

± 0.001 [0.03 mm]

Loading Capacity:

	Static	Dynamic
Max Tensile T	100 lbs [444 N]	30 lbs [133 N]
Max Compressive C	100 lbs [444 N]	30 lbs [133 N]
Max Moment M_x	200 in/lb [22.6 Nm]	25 in/lb [5.6 Nm]
Max Moment M_y	250 in/lb [28 Nm]	30 in/lb [6.7 Nm]
Max Moment M_z	200 in/lb [22.6 Nm]	25 in/lb [5.6 Nm]

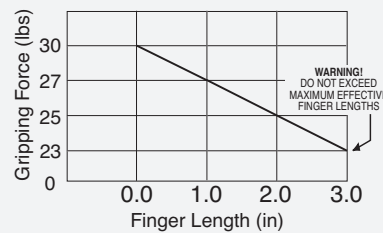
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 1 lb. [5 kg]

Piston Diameter: 1.00 in [25.4 mm]

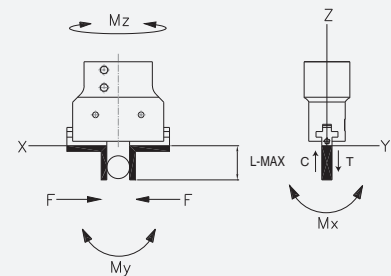
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HOLDING FORCES CHART



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

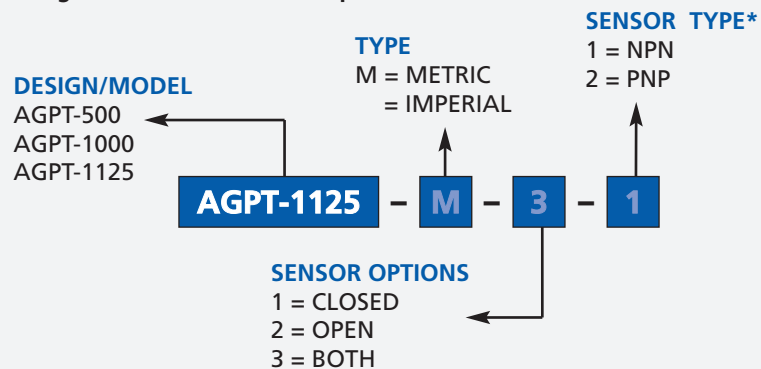
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

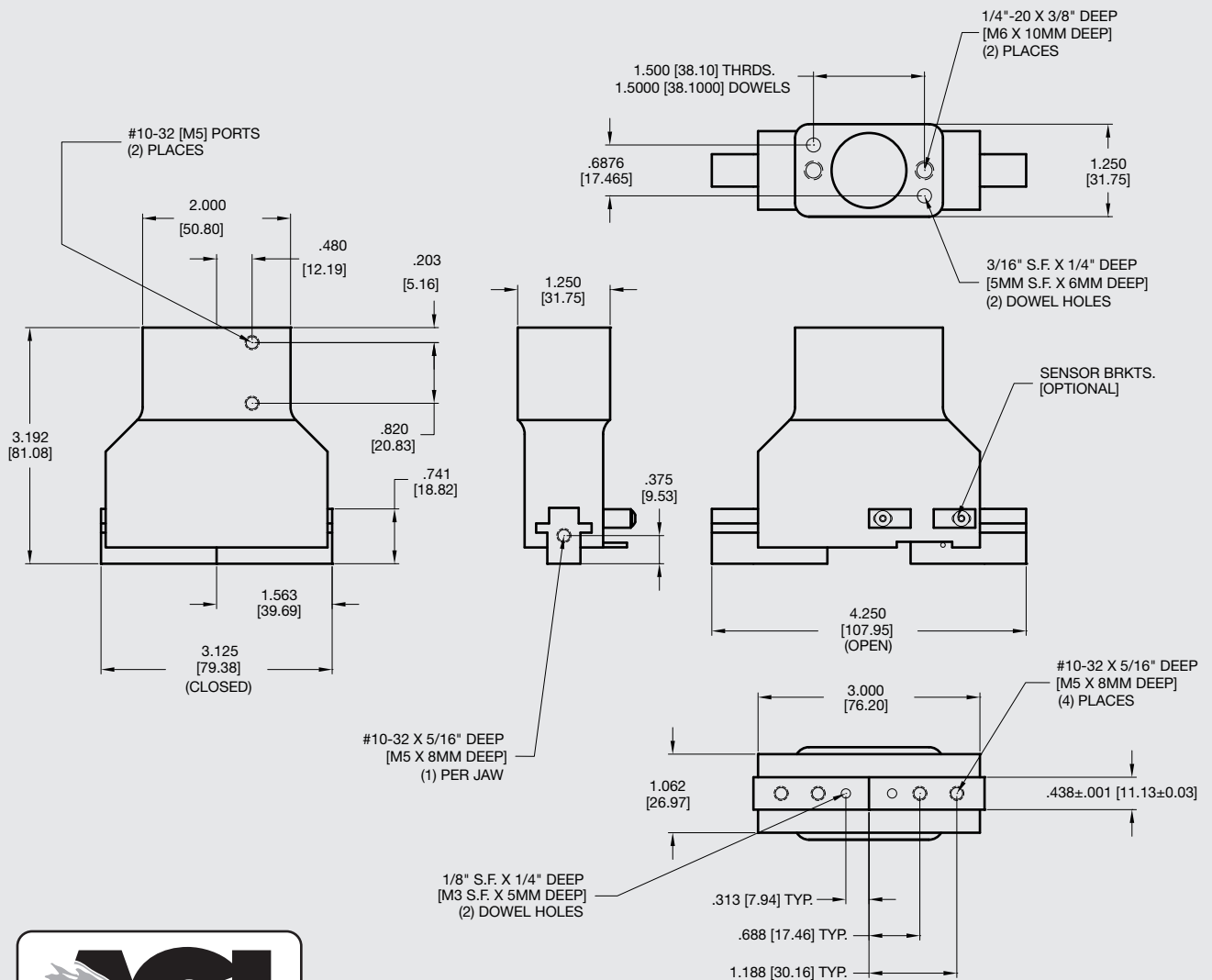
HOW TO ORDER

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



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

Sensor Part # SNC04, SPC04



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]



Metric Threads Course Pitch

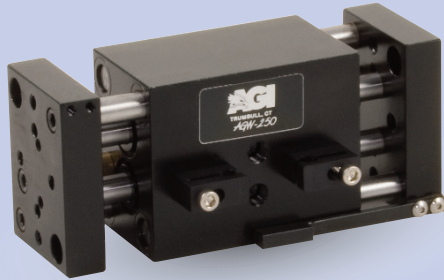
Imperial:
Inch 0.00 = ±.01
0.000 = ±.005
0.0000 = ±.0005

Metric:
[0.] = ±.25
[mm] [0.0] = ±.13
[0.00] = ±.013



AGW-250 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



FEATURES AND BENEFITS

- Ultra high gripping force to weight ratio due to four opposing independent pistons that direct power to the jaws.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Large jaw support shafts are guided through the full width of the main body.
- Proximity switches are available to monitor open and closed position of the jaws.
- The AGW Series is fully field repairable for cost savings and minimum down time.
- Non-synchronous versions allow the gripper's jaws to comply to the part's centerline versus the gripper's centerline.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: .75 in [19 mm]

Thrust Force @ 80 PSI [5.5 BAR]

Closing: 20 lbs [89 N]

Opening: 26 lbs [115 N]

Time:

Close: 0.2 sec [0.2 sec]

Open: 0.2 sec [0.2 sec]

Pressure Range:

Low/High 20-120 PSI [1.7-8 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:

Static 50 lbs 10 lbs

[230 N] [44.5 N]

Dynamic 50 lbs 10 lbs

[230 N] [44.5 N]

Max Tensile T 100 in/lb 20 in/lb

[11.3 Nm] [2.3 Nm]

Max Moment M_x 150 in/lb 30 in/lb

[17 Nm] [3.4Nm]

Max Moment M_y 100 in/lb 20 in/lb

[11.3 Nm] [2.3 Nm]

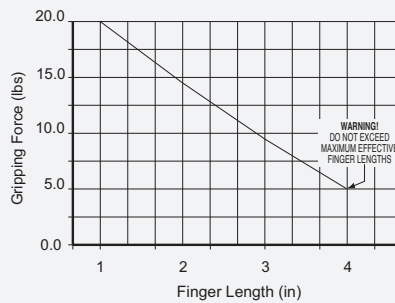
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 11 oz [311 g]

Piston Diameter: .500 in x 4 [12.7 mm]

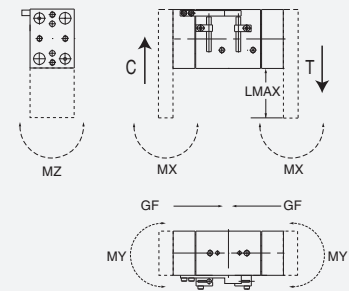
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HOLDING FORCES CHART



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

LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

DESIGN/MODEL

- AGW-250
- AGW-375-1
- AGW-375-2
- AGW-375-4
- AGW-500-1
- AGW-500-2
- AGW-500-4
- AGW-625-2
- AGW-625-4
- AGW-625-6

SENSOR OPTIONS

- 1 = CLOSED
- 2 = OPEN
- 3 = BOTH

SENSOR TYPE*

- 1 = NPN
- 2 = PNP



TYPE
M = METRIC
= IMPERIAL

NON-SYNCHRONIZED OPTION

SENSOR CONNECTOR

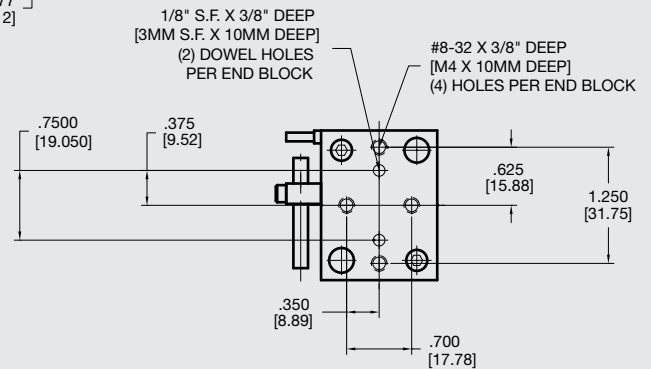
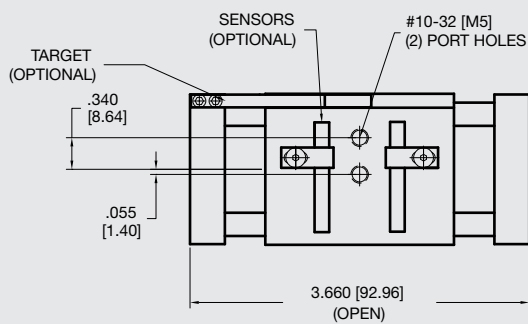
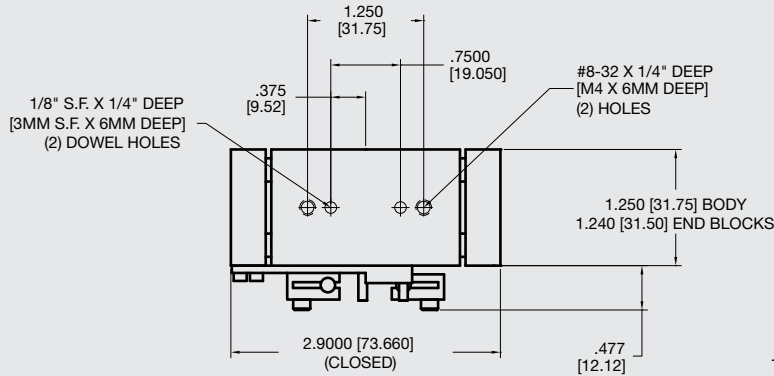
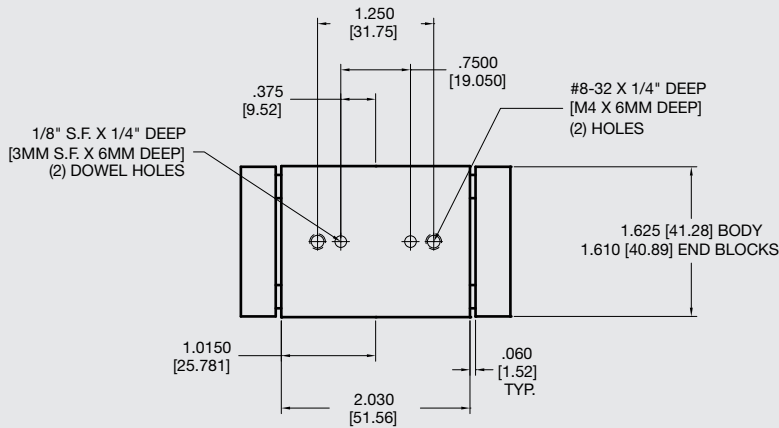
- 1 = POTTED
- 2 = QUICK DISCONNECT
- 3 = QUICK DISCONNECT WITH RIGHT ANGLE

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

Sensor Part # SNQ04, SNC04, SPC04, SPQ04

AGW-250 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance $\pm .0005$ " [0.13mm]



Metric Threads Course Pitch

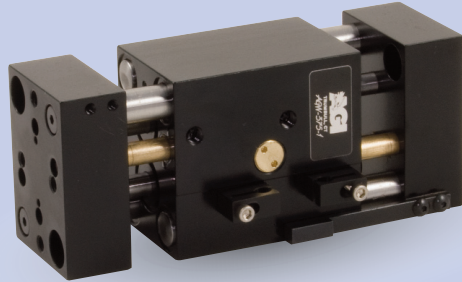
Imperial: 0.00 = ± 0.01
Inch 0.000 = ± 0.005
0.0000 = ± 0.0005

Metric: [0.] = ± 0.25
[mm] [0.0] = ± 0.13
[0.00] = ± 0.13



AGW-375-1 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



FEATURES AND BENEFITS

- Ultra high gripping force to weight ratio due to four opposing independent pistons that direct power to the jaws.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Large jaw support shafts are guided through the full width of the main body.
- Proximity switches are available to monitor open and closed position of the jaws.
- The AGW Series is fully field repairable for cost savings and minimum down time.
- Non-synchronous versions allow the gripper's jaws to comply to the part's centerline versus the gripper's centerline.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 1 in [25.4 mm]

Gripping Force @ 80 PSI Per Jaw [5.5 BAR]

Closing: 36 lbs [160 N]

Opening: 38 lbs [170 N]

Time:

Close: 0.3 sec [0.3 sec]

Open: 0.3 sec [0.3 sec]

Pressure Range:

Low/High 20-120 PSI [1.7-8 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:

	Static	Dynamic
Max Tensile T	100 lbs [445 N]	20 lbs [89 N]
Max Compressive C	100 lbs [445 N]	20 lbs [89 N]

Max Moment M_x 175 in/lb [18.7 Nm] 35 in/lb [4 Nm]

Max Moment M_y 250 in/lb [28 Nm] 50 in/lb [5.6Nm]

Max Moment M_z 175 in/lb [19.7 Nm] 35 in/lb [4 Nm]

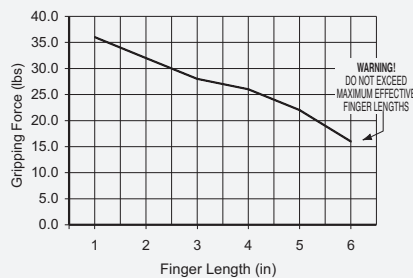
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 1.3 lbs [6 kg]

Piston Diameter: .625 in x 4 [15.8 mm]

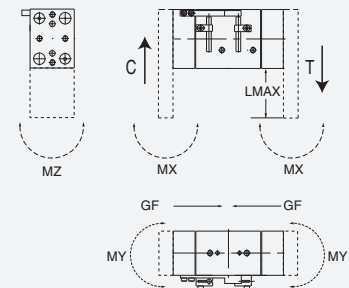
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HOLDING FORCES CHART



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

LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

DESIGN/MODEL

- AGW-250
- AGW-375-1
- AGW-375-2
- AGW-375-4
- AGW-500-1
- AGW-500-2
- AGW-500-4
- AGW-625-2
- AGW-625-4
- AGW-625-6

SENSOR OPTIONS

- 1 = CLOSED
- 2 = OPEN
- 3 = BOTH

SENSOR TYPE*

- 1 = NPN
- 2 = PNP



TYPE
M = METRIC
= IMPERIAL

NON-SYNCHRONIZED OPTION

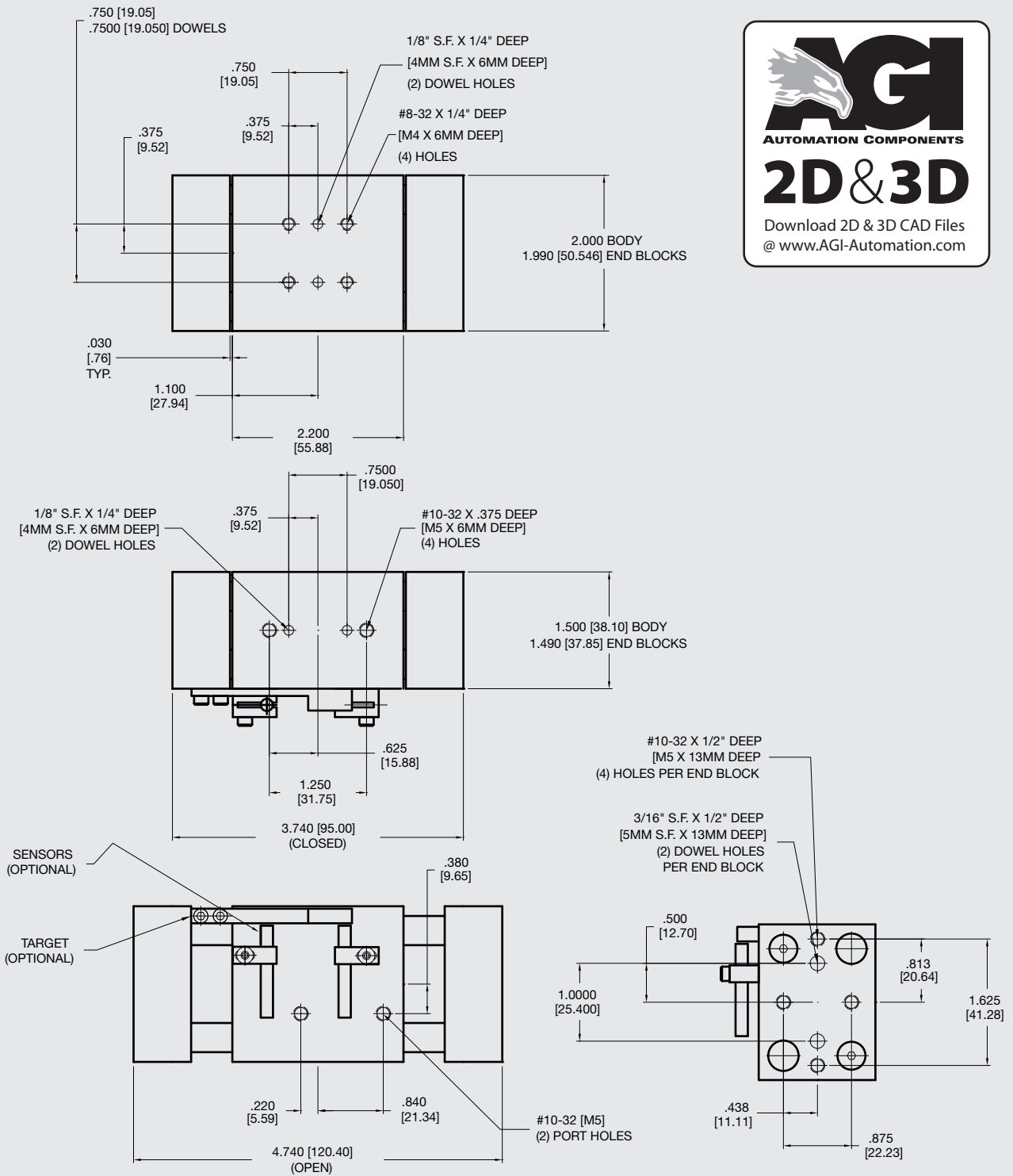
SENSOR CONNECTOR
1 = POTTED
2 = QUICK DISCONNECT
3 = QUICK DISCONNECT WITH RIGHT ANGLE

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

Sensor Part # SNQ04, SNC04, SPC04, SPQ04

AGW-375-1 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance $\pm .0005"$ [0.13mm]



Metric Threads Course Pitch

Imperial: Inch

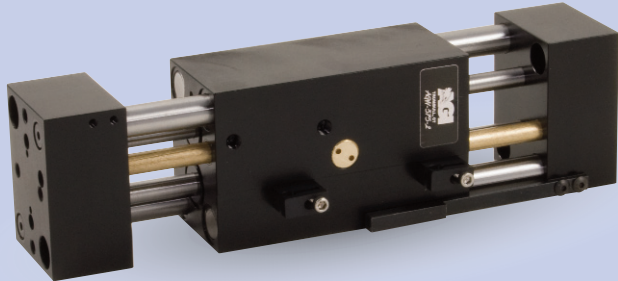
0.00 = ± 0.01
0.000 = ± 0.005
0.0000 = ± 0.0005

Metric: [0.] = ± 0.25
[mm] [0.0] = ± 0.13
[0.00] = ± 0.13



AGW-375-2 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



FEATURES AND BENEFITS

- Ultra high gripping force to weight ratio due to four opposing independent pistons that direct power to the jaws.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Large jaw support shafts are guided through the full width of the main body.
- Proximity switches are available to monitor open and closed position of the jaws.
- The AGW Series is fully field repairable for cost savings and minimum down time.
- Non-synchronous versions allow the gripper's jaws to comply to the part's centerline versus the gripper's centerline.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 2 in [50.8 mm]

Gripping Force @ 80 PSI Per Jaw [5.5 BAR]

Closing: 36 lbs [160 N]

Opening: 38 lbs [170 N]

Time:

Close: 0.3 sec [0.3 sec]

Open: 0.3 sec [0.3 sec]

Pressure Range:

Low/High 20-120 PSI [1.7-8 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:

	Static	Dynamic
Max Tensile T	100 lbs [445 N]	20 lbs [89 N]
Max Compressive C	100 lbs [445 N]	20 lbs [89 N]

Max Moment M_x 175 in/lb [19.5 Nm] 35 in/lb [4 Nm]

Max Moment M_y 250 in/lb [28 Nm] 50 in/lb [5.6 Nm]

Max Moment M_z 175 in/lb [19.5 Nm] 35 in/lb [4 Nm]

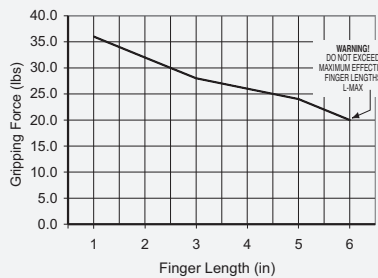
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 2 lbs [9 kg]

Piston Diameter: .625 in x 4 [15.8 mm]

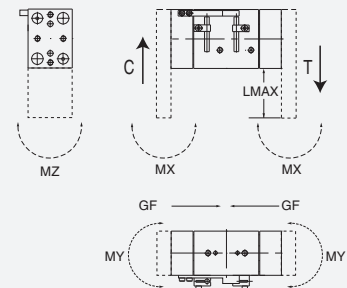
January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



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

LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

DESIGN/MODEL

- AGW-250
- AGW-375-1
- AGW-375-2
- AGW-375-4
- AGW-500-1
- AGW-500-2
- AGW-500-4
- AGW-625-2
- AGW-625-4
- AGW-625-6

SENSOR OPTIONS

- 1 = CLOSED
- 2 = OPEN
- 3 = BOTH

SENSOR TYPE*

- 1 = NPN
- 2 = PNP



TYPE
M = METRIC
= IMPERIAL

NON-SYNCHRONIZED OPTION

SENSOR CONNECTOR

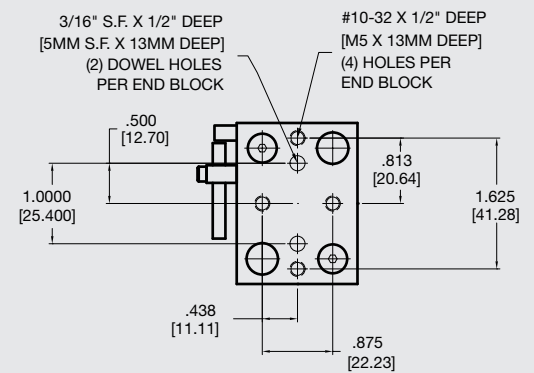
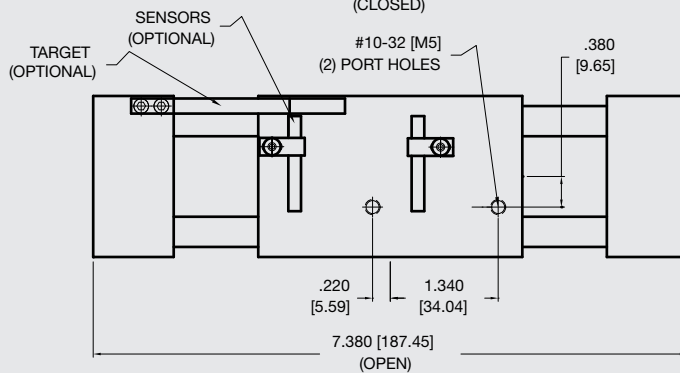
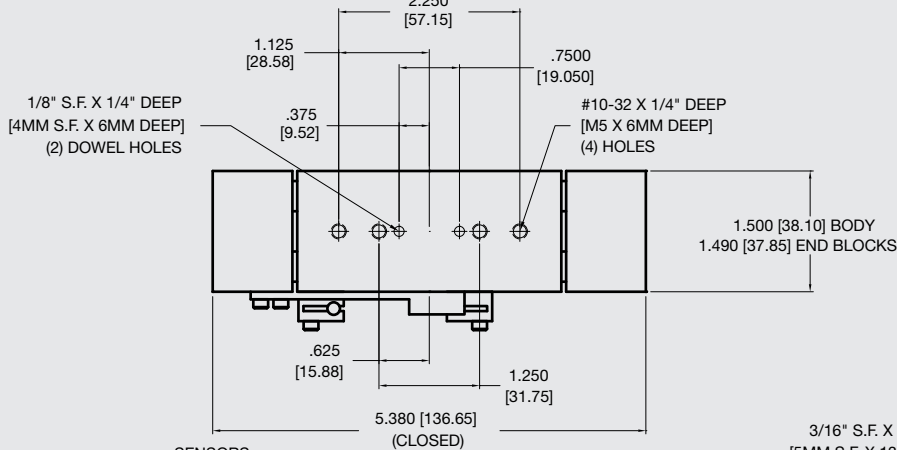
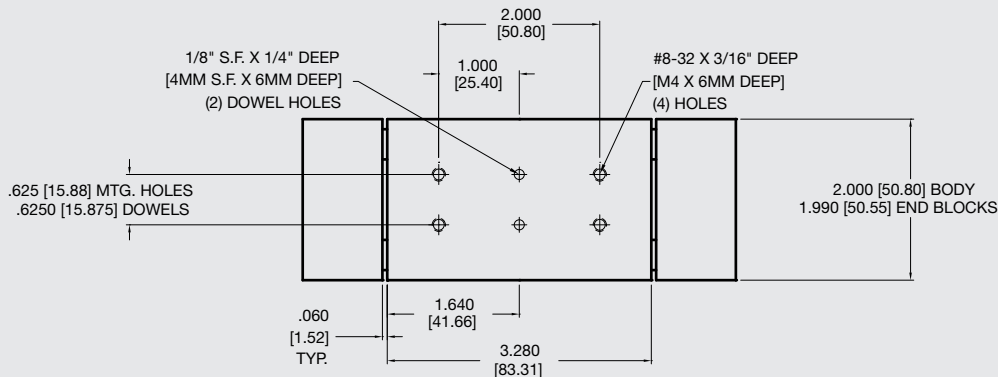
- 1 = POTTED
- 2 = QUICK DISCONNECT
- 3 = QUICK DISCONNECT WITH RIGHT ANGLE

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

Sensor Part # SNQ04, SNC04, SPC04, SPQ04

AGW-375-2 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance $\pm .0005"$ [0.13mm]



Metric Threads Course Pitch

Imperial: Inch

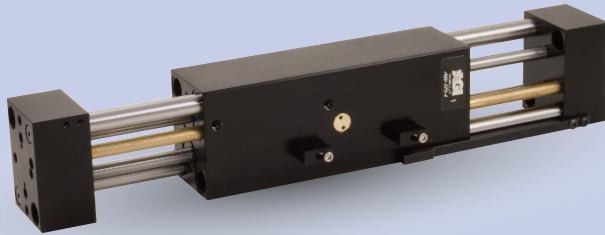
0.00 = $\pm .01$
0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
[0.0] = $\pm .13$
[0.00] = $\pm .013$



AGW-375-4 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



FEATURES AND BENEFITS

- Ultra high gripping force to weight ratio due to four opposing independent pistons that direct power to the jaws.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Large jaw support shafts are guided through the full width of the main body.
- Proximity switches are available to monitor open and closed position of the jaws.
- The AGW Series is fully field repairable for cost savings and minimum down time.
- Non-synchronous versions allow the gripper's jaws to comply to the part's centerline versus the gripper's centerline.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 4 in [101.6 mm]

Gripping Force @ 80 PSI Per Jaw [5.5 BAR]

Closing: 36 lbs [160 N]

Opening: 38 lbs [170 N]

Time:

Close: 0.6 sec [0.6 sec]

Open: 0.6 sec [0.6 sec]

Pressure Range:

Low/High 20-120 PSI [1.7-8 BAR]

Temperature Range:

Low/High -20°/180°F [-28°/80°C]

Side Play:

± 0.001 [0.03 mm]

Repeatability from Center:

± 0.002 [0.06 mm]

Loading Capacity:

	Static	Dynamic
Max Tensile T	100 lbs [445 N]	20 lbs [89 N]
Max Compressive C	100 lbs [445 N]	20 lbs [89 N]

Max Moment M_x 175 in/lb [19.5 Nm] 35 in/lb [4 Nm]

Max Moment M_y 250 in/lb [28 Nm] 50 in/lb [5.6 Nm]

Max Moment M_z 175 in/lb [19.5 Nm] 35 in/lb [4 Nm]

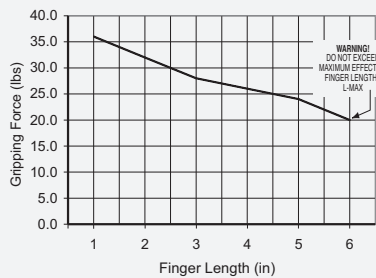
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 3.2 lbs [1.5 kg]

Piston Diameter: .625 in x 4 [15.8 mm]

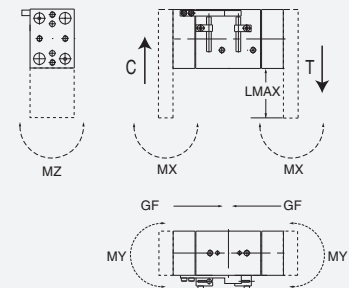
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HOLDING FORCES CHART



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

LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

DESIGN/MODEL

- AGW-250
- AGW-375-1
- AGW-375-2
- AGW-375-4
- AGW-500-1
- AGW-500-2
- AGW-500-4
- AGW-625-2
- AGW-625-4
- AGW-625-6

SENSOR OPTIONS

- 1 = CLOSED
- 2 = OPEN
- 3 = BOTH

SENSOR TYPE*

- 1 = NPN
- 2 = PNP



TYPE
M = METRIC
= IMPERIAL

NON-SYNCHRONIZED OPTION

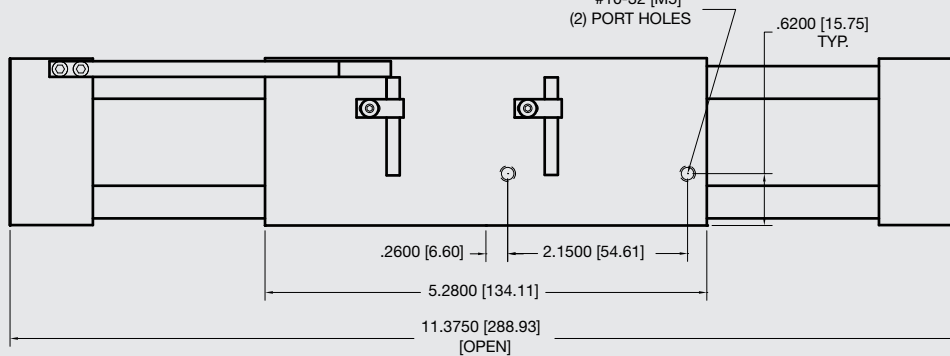
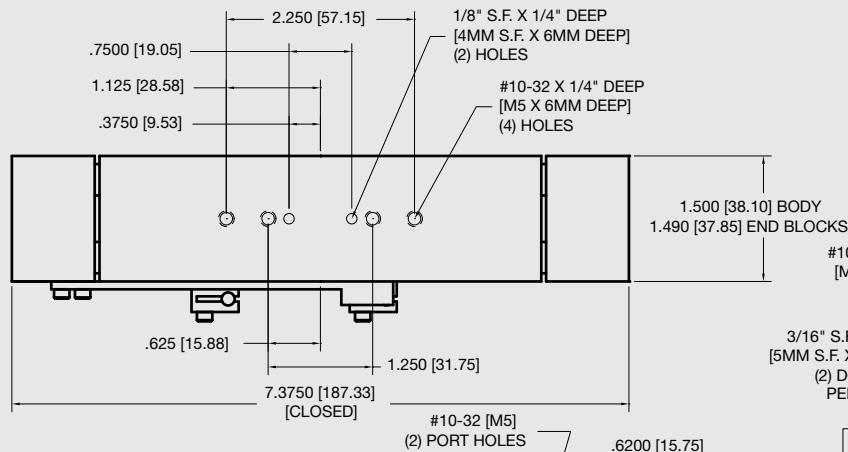
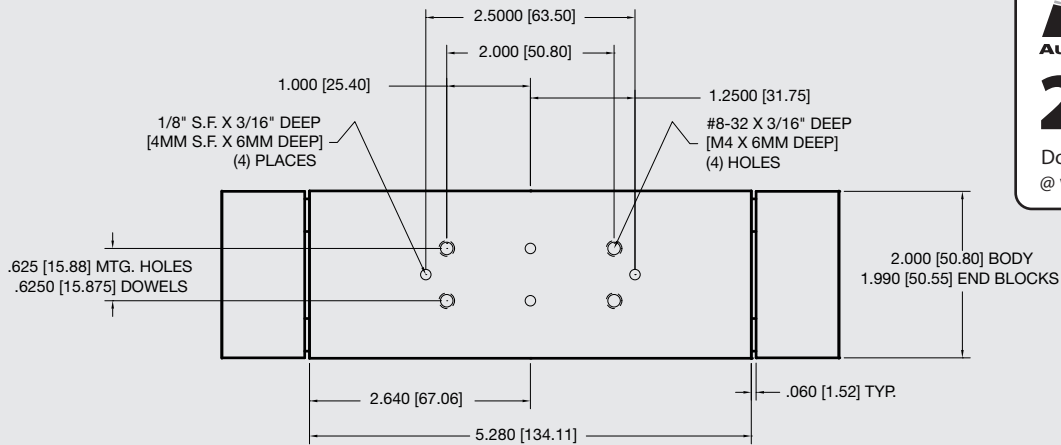
SENSOR CONNECTOR
1 = POTTED
2 = QUICK DISCONNECT
3 = QUICK DISCONNECT WITH RIGHT ANGLE

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

Sensor Part # SNQ04, SNC04, SPC04, SPQ04

AGW-375-4 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance $\pm .0005"$ [0.13mm]



Metric Threads Course Pitch

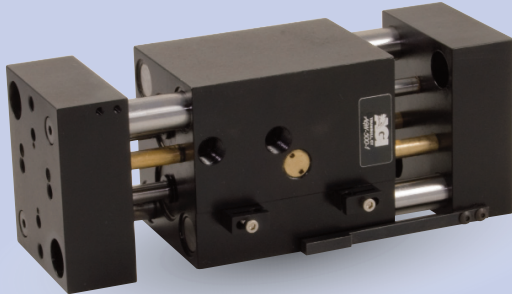
Imperial:
Inch 0.00 = $\pm .01$
0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
[mm] [0.0] = $\pm .13$
[0.00] = $\pm .013$



AGW-500-1 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



FEATURES AND BENEFITS

- Ultra high gripping force to weight ratio due to four opposing independent pistons that direct power to the jaws.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Large jaw support shafts are guided through the full width of the main body.
- Proximity switches are available to monitor open and closed position of the jaws.
- The AGW Series is fully field repairable for cost savings and minimum down time.
- Non-synchronous versions allow the gripper's jaws to comply to the part's centerline versus the gripper's centerline.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 1.5 in [38.1 mm]

Gripping Force @ 80 PSI Per Jaw [5.5 BAR]

Closing: 84 lbs [373 N]

Opening: 86 lbs [383 N]

Time:

Close: 0.3 sec [0.3 sec]

Open: 0.3 sec [0.3 sec]

Pressure Range:

Low/High 20-120 PSI [1.7-8 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:

	Static	Dynamic
Max Tensile T	500 lbs [2220 N]	50 lbs [222 N]
Max Compressive C	500 lbs [2220 N]	50 lbs [222 N]

Max Moment M_x 500 in/lb [56.5 Nm] 50 in/lb [5.6 Nm]

Max Moment M_y 750 in/lb [85 Nm] 75 in/lb [8.5 Nm]

Max Moment M_z 500 in/lb [56.5 Nm] 50 in/lb [5.6 Nm]

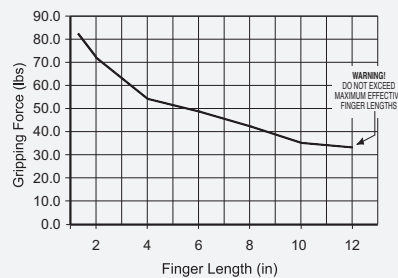
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 3 lbs [1.4 kg]

Piston Diameter: .875 in x 4 [22.3 mm]

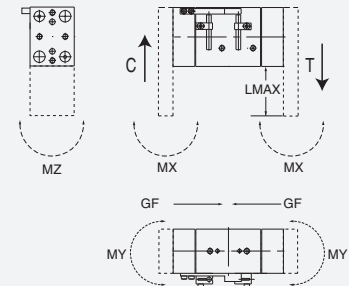
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HOLDING FORCES CHART



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

LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

DESIGN/MODEL

- AGW-250
- AGW-375-1
- AGW-375-2
- AGW-375-4
- AGW-500-1
- AGW-500-2
- AGW-500-4
- AGW-625-2
- AGW-625-4
- AGW-625-6

SENSOR OPTIONS

- 1 = CLOSED
- 2 = OPEN
- 3 = BOTH

SENSOR TYPE*

- 1 = NPN
- 2 = PNP



TYPE
M = METRIC
= IMPERIAL

NON-SYNCHRONIZED OPTION

SENSOR CONNECTOR

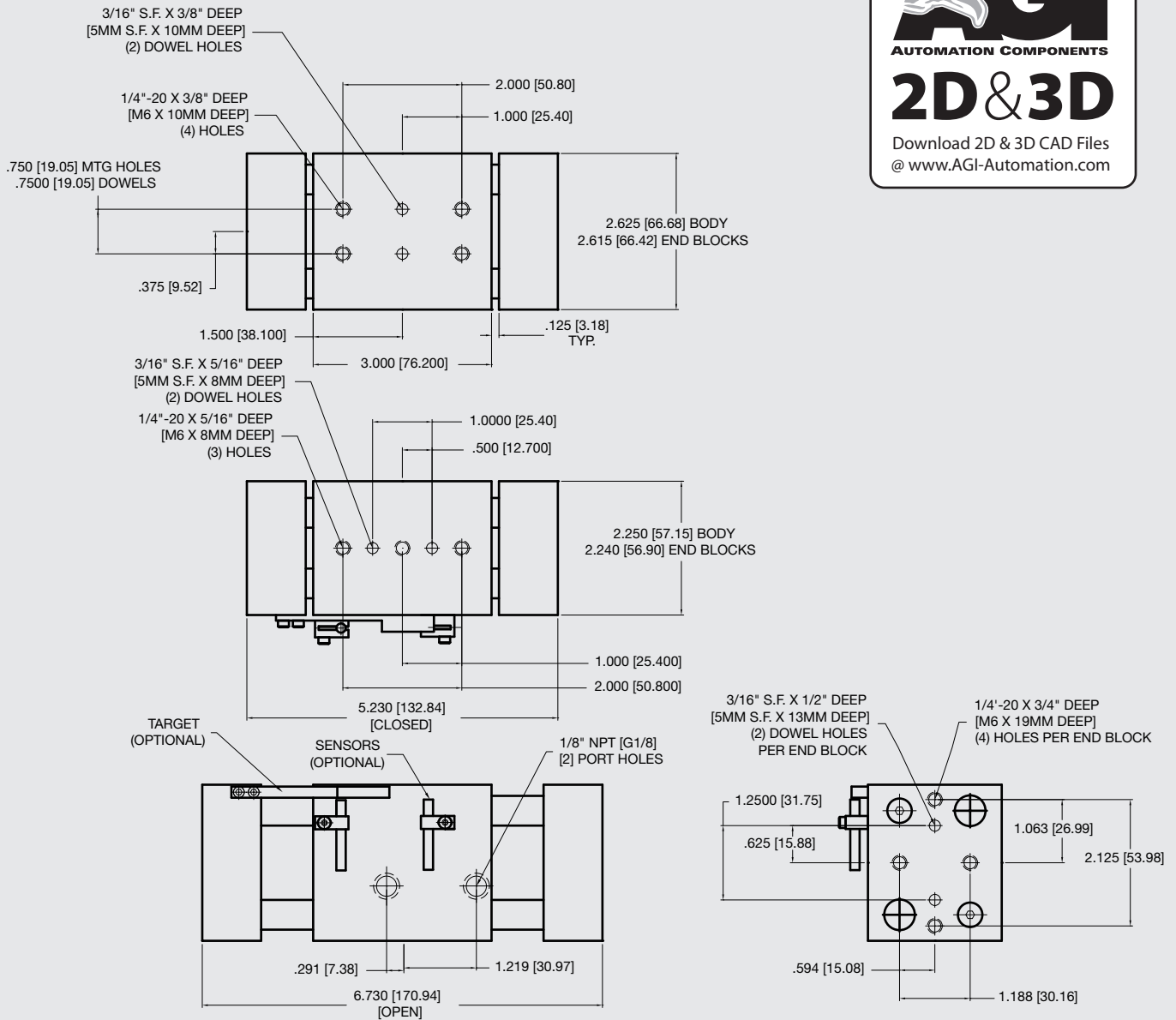
- 1 = POTTED
- 2 = QUICK DISCONNECT
- 3 = QUICK DISCONNECT WITH RIGHT ANGLE

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

Sensor Part # SNQ04, SNC04, SPC04, SPQ04

AGW-500-1 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance $\pm .0005$ " [0.013mm]



Metric Threads Course Pitch

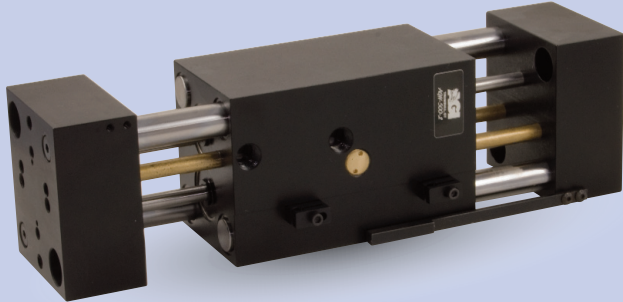
Imperial:
 0.00 = $\pm .01$
 0.000 = $\pm .005$
 0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
 [mm] [0.0] = $\pm .13$
 [0.00] = $\pm .013$



AGW-500-2 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



FEATURES AND BENEFITS

- Ultra high gripping force to weight ratio due to four opposing independent pistons that direct power to the jaws.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Large jaw support shafts are guided through the full width of the main body.
- Proximity switches are available to monitor open and closed position of the jaws.
- The AGW Series is fully field repairable for cost savings and minimum down time.
- Non-synchronous versions allow the gripper's jaws to comply to the part's centerline versus the gripper's centerline.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 2.5 in [63.5 mm]

Gripping Force @ 80 PSI Per Jaw [5.5 BAR]

Closing: 84 lbs [373 N]

Opening: 86 lbs [383 N]

Time:

Close: 0.3 sec [0.3 sec]

Open: 0.3 sec [0.3 sec]

Pressure Range:

Low/High 20-120 PSI [1.7-8 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:

Static Dynamic

Max Tensile T 500 lbs 50 lbs

[2220 N] [222 N]

Max Compressive C 500 lbs 50 lbs

[2220 N] [222 N]

Max Moment M_x 500 in/lb 50 in/lb

[56.5 Nm] [5.6 Nm]

Max Moment M_y 750 in/lb 75 in/lb

[85 Nm] [8.5Nm]

Max Moment M_z 500 in/lb 50 in/lb

[56.5 Nm] [5.6 Nm]

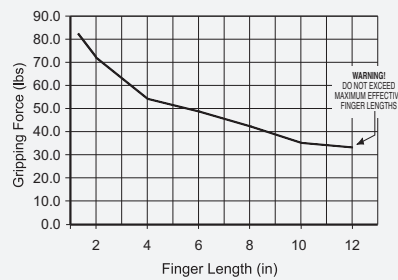
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 4 lbs [1.8 kg]

Piston Diameter: .875 in x 4 [22.3 mm]

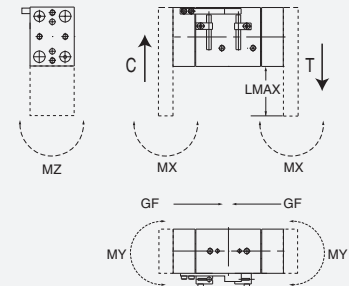
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HOLDING FORCES CHART



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

LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

DESIGN/MODEL

- AGW-250
- AGW-375-1
- AGW-375-2
- AGW-375-4
- AGW-500-1
- AGW-500-2
- AGW-500-4
- AGW-625-2
- AGW-625-4
- AGW-625-6

SENSOR OPTIONS

- 1 = CLOSED
- 2 = OPEN
- 3 = BOTH

SENSOR TYPE*

- 1 = NPN
- 2 = PNP



TYPE
M = METRIC
= IMPERIAL

NON-SYNCHRONIZED OPTION

SENSOR CONNECTOR

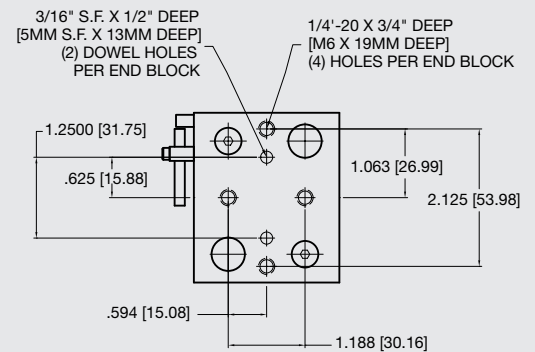
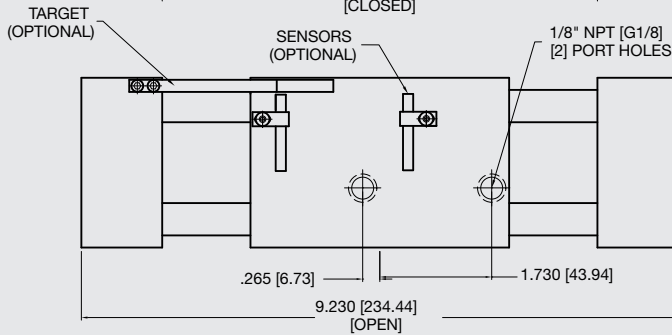
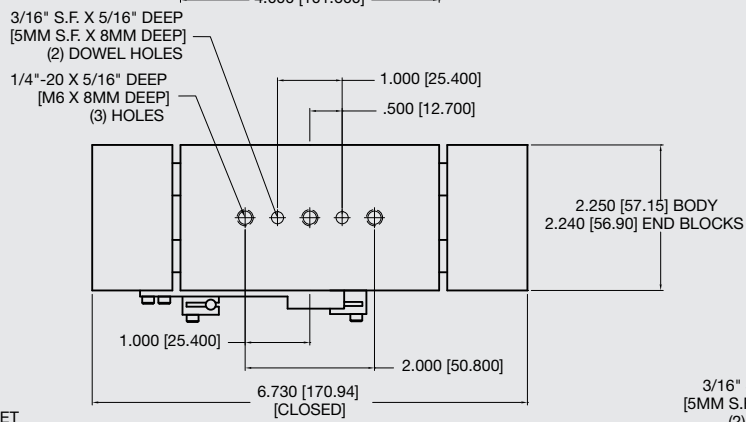
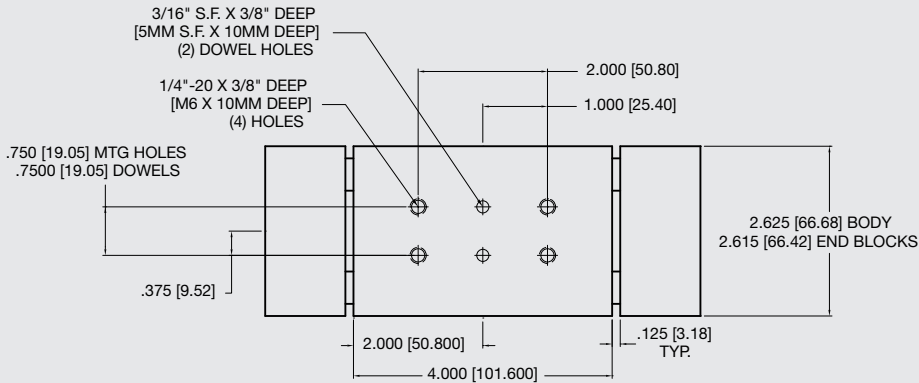
- 1 = POTTED
- 2 = QUICK DISCONNECT
- 3 = QUICK DISCONNECT WITH RIGHT ANGLE

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

Sensor Part # SNQ04, SNC04, SPC04, SPQ04

AGW-500-2 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



Unless noted, all tolerances are as indicated here:



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



Metric Threads Course Pitch

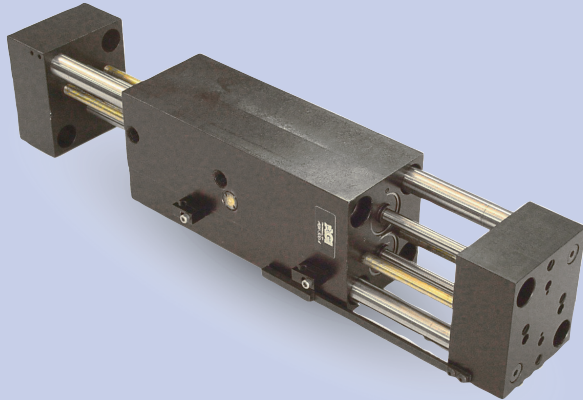
Imperial: 0.00 = $\pm .01$
Inch 0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
[mm] [0.0] = $\pm .13$
[0.00] = $\pm .013$



AGW-500-4 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



FEATURES AND BENEFITS

- Ultra high gripping force to weight ratio due to four opposing independent pistons that direct power to the jaws.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Large jaw support shafts are guided through the full width of the main body.
- Proximity switches are available to monitor open and closed position of the jaws.
- The AGW Series is fully field repairable for cost savings and minimum down time.
- Non-synchronous versions allow the gripper's jaws to comply to the part's centerline versus the gripper's centerline.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 4 in [101.6 mm]

Gripping Force @ 80 PSI Per Jaw [5.5 BAR]

Closing: 84 lbs [373 N]

Opening: 86 lbs [383 N]

Time:

Close: 0.5 sec [0.5 sec]

Open: 0.5 sec [0.5 sec]

Pressure Range:

Low/High 20-120 PSI [1.7-8 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:

	Static	Dynamic
Max Tensile T	500 lbs [2220 N]	50 lbs [222 N]
Max Compressive C	500 lbs [2220 N]	50 lbs [222 N]
Max Moment M_x	500 in/lb [56.5 Nm]	50 in/lb [5.6 Nm]
Max Moment M_y	750 in/lb [85 Nm]	75 in/lb [8.5 Nm]
Max Moment M_z	500 in/lb [56.5 Nm]	50 in/lb [5.6 Nm]

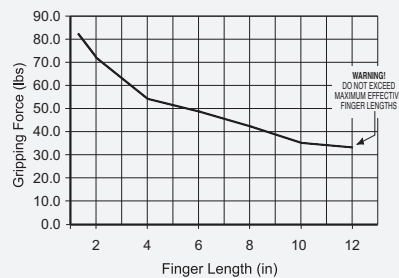
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 6 lbs [2.7 kg]

Piston Diameter: .875 in x 4 [22.3 mm]

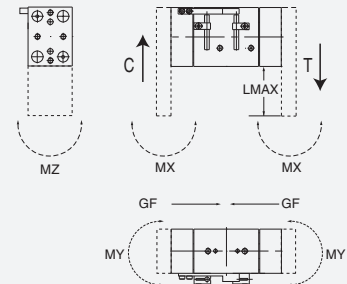
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HOLDING FORCES CHART



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

LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

DESIGN/MODEL

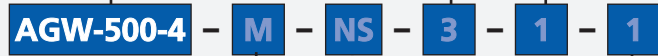
- AGW-250
- AGW-375-1
- AGW-375-2
- AGW-375-4
- AGW-500-1
- AGW-500-2
- AGW-500-4
- AGW-625-2
- AGW-625-4
- AGW-625-6

SENSOR OPTIONS

- 1 = CLOSED
- 2 = OPEN
- 3 = BOTH

SENSOR TYPE*

- 1 = NPN
- 2 = PNP



TYPE
M = METRIC
= IMPERIAL

NON-SYNCHRONIZED OPTION

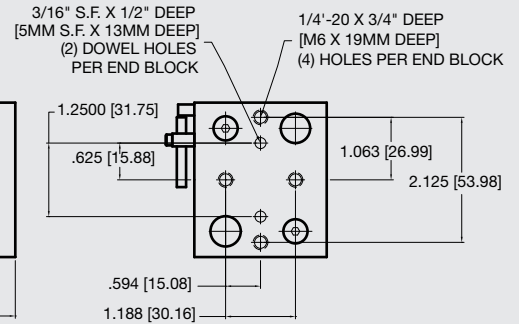
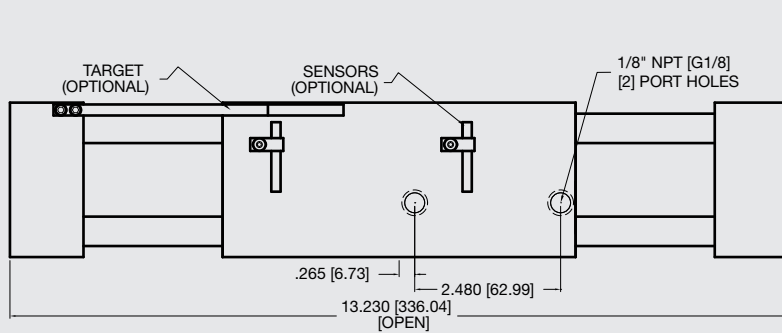
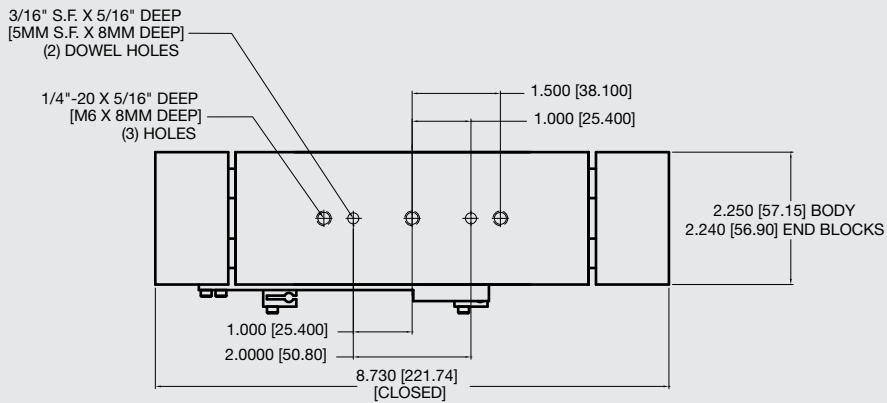
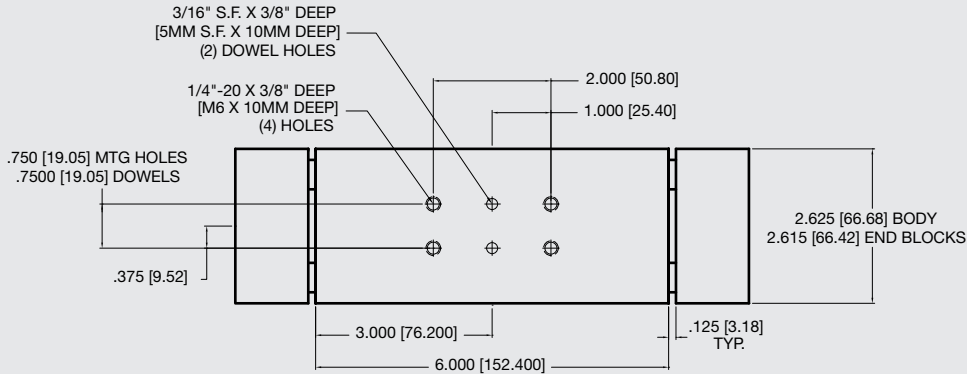
SENSOR CONNECTOR
1 = POTTED
2 = QUICK DISCONNECT
3 = QUICK DISCONNECT WITH RIGHT ANGLE

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

Sensor Part # SNQ04, SNC04, SPC04, SPQ04

AGW-500-4 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance $\pm .0005"$ [0.13mm]



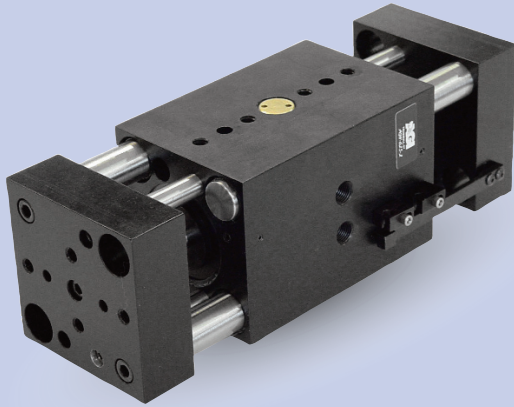
Metric Threads Course Pitch

Imperial: 0.00 = ± 0.1
Inch 0.000 = ± 0.005
0.0000 = ± 0.0005

Metric: [0.] = ± 0.25
[mm] [0.0] = ± 0.13
[0.00] = ± 0.13

AGW-625-2 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



FEATURES AND BENEFITS

- Ultra high gripping force to weight ratio due to four opposing independent pistons that direct power to the jaws.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Pistons seals are quad ring type for long service life.
- Large jaw support shafts are guided through the full width of the main body.
- Proximity switches are available to monitor open and closed position of the jaws.
- The AGW Series is fully field repairable for cost savings and minimum down time.
- Non-synchronous versions allow the gripper's jaws to comply to the part's centerline versus the gripper's centerline.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 2 in [50.8 mm]

Gripping Force @ 80 PSI Per Jaw [5.5 BAR]

Closing: 130 lbs [578 N]

Opening: 132 lbs [587 N]

Time:

Close: 0.3 sec [0.3 sec]

Open: 0.3 sec [0.3 sec]

Pressure Range:

Low/High 20-120 PSI [1.7-8 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:

	Static	Dynamic
Max Tensile T	1300 lbs [5700 N]	150 lbs [667 N]
Max Compressive C	1300 lbs [5700 N]	150 lbs [667 N]

Max Moment M_x 1100 in/lb [124 Nm] 120 in/lb [13.5 Nm]

Max Moment M_y 1500 in/lb [170 Nm] 130 in/lb [14.7 Nm]

Max Moment M_z 1100 in/lb [124 Nm] 120 in/lb [13.5 Nm]

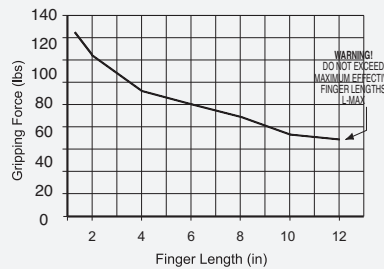
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 6.3 lbs [2.9 kg]

Piston Diameter: 1.625 in [41.3 mm]

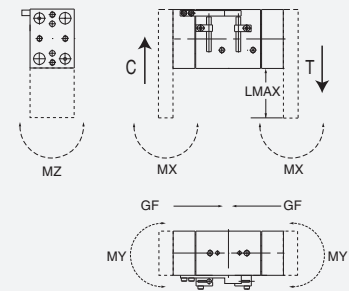
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HOLDING FORCES CHART



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

LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

DESIGN/MODEL

- AGW-250
- AGW-375-1
- AGW-375-2
- AGW-375-4
- AGW-500-1
- AGW-500-2
- AGW-500-4
- AGW-625-2
- AGW-625-4
- AGW-625-6

SENSOR OPTIONS

- 1 = CLOSED
- 2 = OPEN
- 3 = BOTH

SENSOR TYPE*

- 1 = NPN
- 2 = PNP



TYPE
M = METRIC
= IMPERIAL

NON-SYNCHRONIZED OPTION

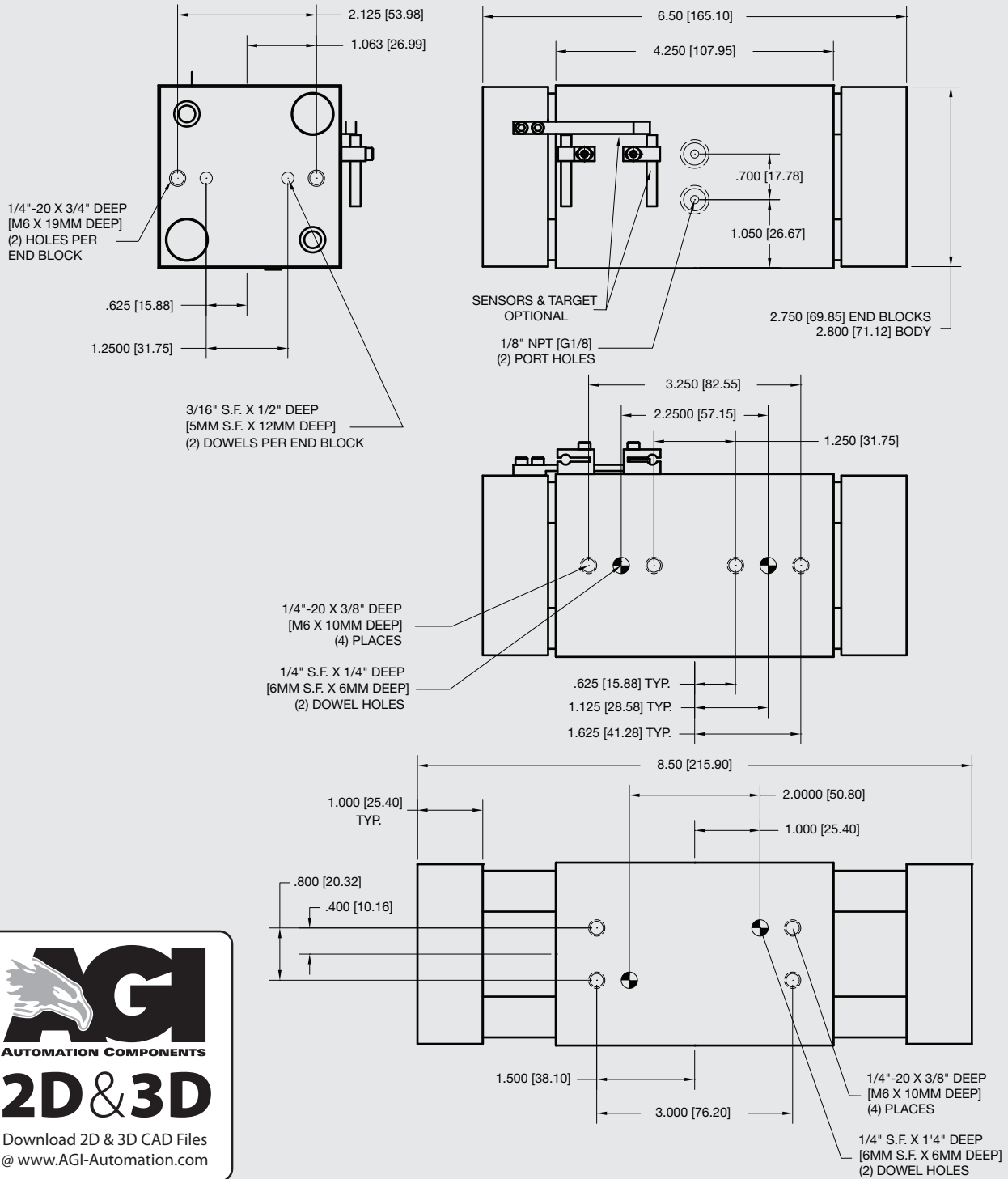
SENSOR CONNECTOR
1 = POTTED
2 = QUICK DISCONNECT
3 = QUICK DISCONNECT WITH RIGHT ANGLE

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

Sensor Part # SNQ04, SNC04, SPC04, SPQ04

AGW-625-2 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance $\pm .0005"$ [0.13mm]



Metric Threads Course Pitch

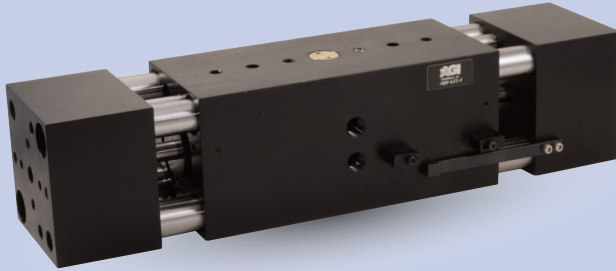
Imperial:
Inch 0.00 = $\pm .01$
0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
[mm] [0.0] = $\pm .13$
[0.00] = $\pm .013$



AGW-625-4 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



FEATURES AND BENEFITS

- Ultra high gripping force to weight ratio due to four opposing independent pistons that direct power to the jaws.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Large jaw support shafts are guided through the full width of the main body.
- Proximity switches are available to monitor open and closed position of the jaws.
- The AGW Series is fully field repairable for cost savings and minimum down time.
- Non-synchronous versions allow the gripper's jaws to comply to the part's centerline versus the gripper's centerline.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 4 in [101.6 mm]

Gripping Force @ 80 PSI Per Jaw [5.5 BAR]

Closing: 130 lbs [578 N]

Opening: 132 lbs [587 N]

Time:

Close: 0.3 sec [0.3 sec]

Open: 0.3 sec [0.3 sec]

Pressure Range:

Low/High 20-120 PSI [1.7-8 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:

Static Dynamic

Max Tensile T 1300 lbs 150 lbs

[5700 N] [667 N]

Max Compressive C 1300 lbs 150 lbs

[5700 N] [667 N]

Max Moment M_x 1100 in/lb 120 in/lb

[124 Nm] [13.5 Nm]

Max Moment M_y 1500 in/lb 130 in/lb

[170 Nm] [14.7 Nm]

Max Moment M_z 1100 in/lb 120 in/lb

[124 Nm] [13.5 Nm]

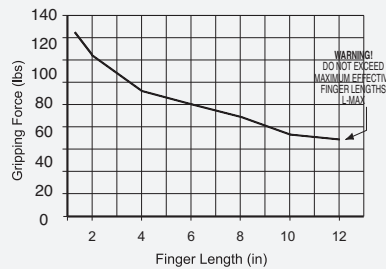
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 8 lbs [3.6 kg]

Piston Diameter: 1.625 in [41.3 mm]

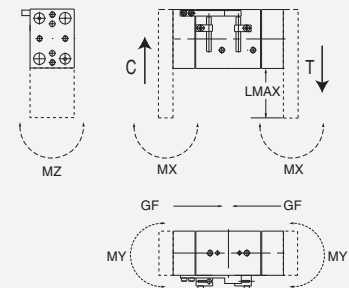
January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



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

LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

DESIGN/MODEL

- AGW-250
- AGW-375-1
- AGW-375-2
- AGW-375-4
- AGW-500-1
- AGW-500-2
- AGW-500-4
- AGW-625-2
- AGW-625-4
- AGW-625-6

SENSOR OPTIONS

- 1 = CLOSED
- 2 = OPEN
- 3 = BOTH

SENSOR TYPE*

- 1 = NPN
- 2 = PNP



TYPE
M = METRIC
= IMPERIAL

NON-SYNCHRONIZED OPTION

SENSOR CONNECTOR

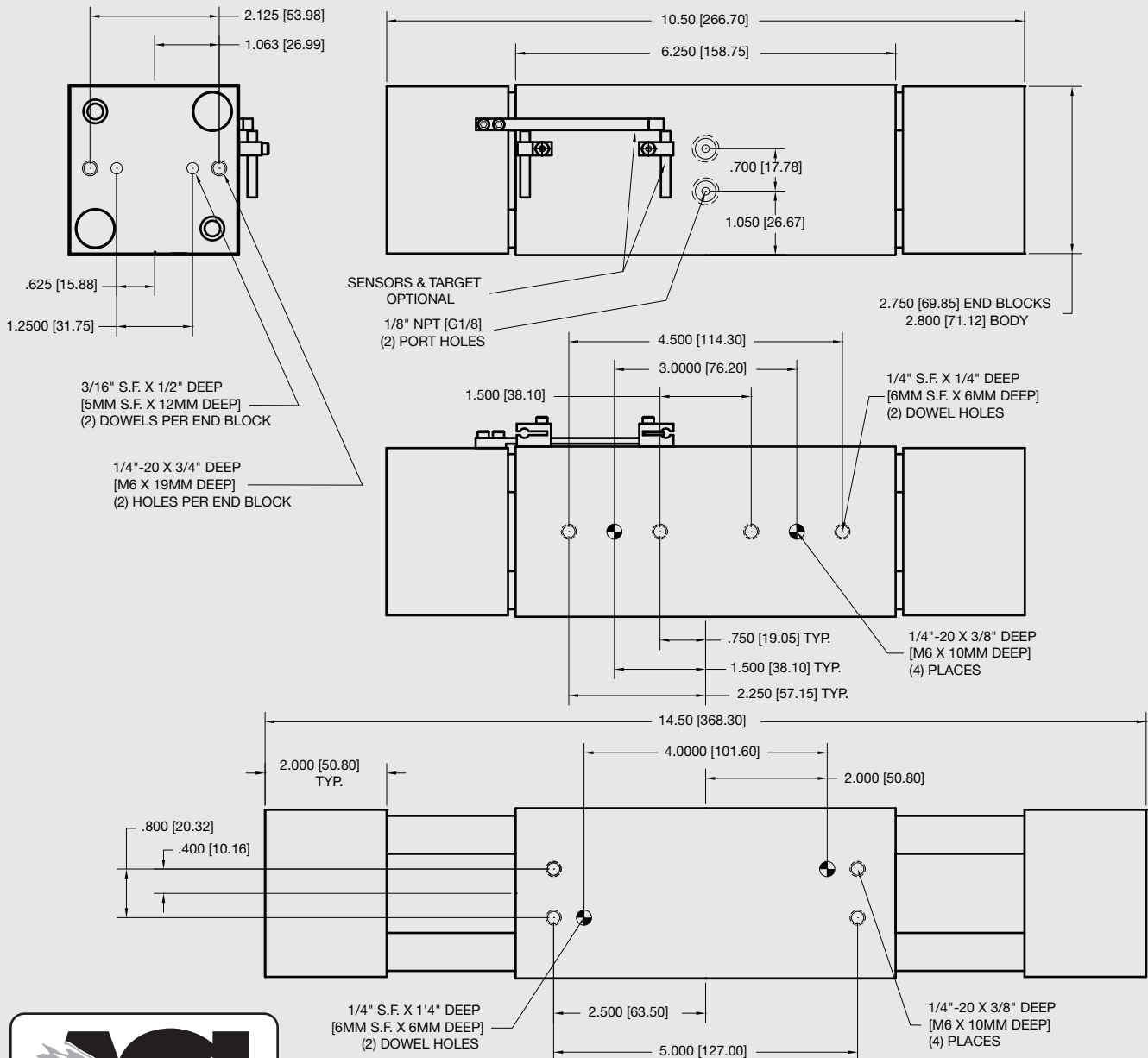
- 1 = POTTED
- 2 = QUICK DISCONNECT
- 3 = QUICK DISCONNECT WITH RIGHT ANGLE

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

Sensor Part # SNQ04, SNC04, SPC04, SPQ04

AGW-625-4 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



Unless noted, all tolerances are as indicated here:



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



Metric Threads Course Pitch

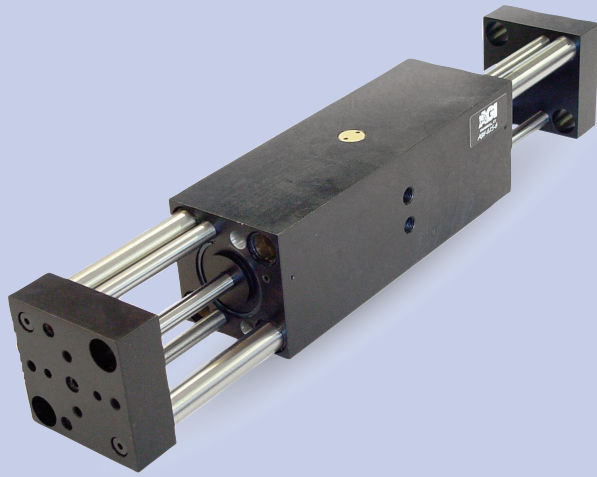
Imperial:
Inch 0.00 = $\pm .01$
0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
[0.0] = $\pm .13$
[0.00] = $\pm .013$



AGW-625-6 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



FEATURES AND BENEFITS

- Ultra high gripping force to weight ratio due to four opposing independent pistons that direct power to the jaws.
- True parallel jaw motion for easy tooling.
- Units are permanently lubricated for non-lube air operation, allowing for compliance with OSHA regulations.
- Large jaw support shafts are guided through the full width of the main body.
- Proximity switches are available to monitor open and closed position of the jaws.
- The AGW Series is fully field repairable for cost savings and minimum down time.
- Non-synchronous versions allow the gripper's jaws to comply to the part's centerline versus the gripper's centerline.

SPECIFICATIONS

Design: Parallel, Double Acting, Synchronized Jaws

Stroke: 6 in [152.4 mm]

Gripping Force @ 80 PSI Per Jaw [5.5 BAR]

Closing: 130 lbs [578 N]

Opening: 132 lbs [587 N]

Time:

Close: 0.3 sec [0.3 sec]

Open: 0.3 sec [0.3 sec]

Pressure Range:

Low/High 20-120 PSI [1.7-8 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:

	Static	Dynamic
Max Tensile T	1300 lbs [5700 N]	150 lbs [667 N]
Max Compressive C	1300 lbs [5700 N]	150 lbs [667 N]

Max Moment M_x 1100 in/lb [124 Nm] 120 in/lb [13.5 Nm]

Max Moment M_y 1500 in/lb [170 Nm] 130 in/lb [14.7 Nm]

Max Moment M_z 1100 in/lb [124 Nm] 120 in/lb [13.5 Nm]

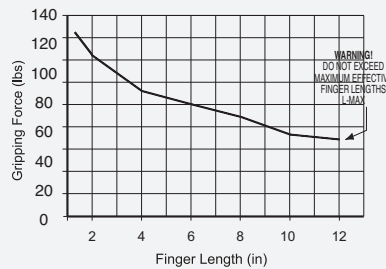
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 9.7 lbs [4.4 kg]

Piston Diameter: 1.625 in [41.3 mm]

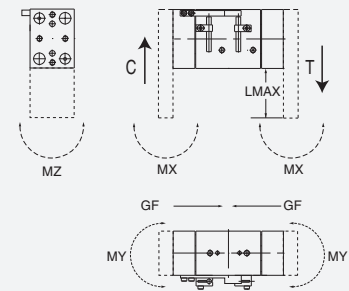
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HOLDING FORCES CHART



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

LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

DESIGN/MODEL

- AGW-250
- AGW-375-1
- AGW-375-2
- AGW-375-4
- AGW-500-1
- AGW-500-2
- AGW-500-4
- AGW-625-2
- AGW-625-4
- AGW-625-6

SENSOR OPTIONS

- 1 = CLOSED
- 2 = OPEN
- 3 = BOTH

SENSOR TYPE*

- 1 = NPN
- 2 = PNP



TYPE
M = METRIC
= IMPERIAL

NON-SYNCHRONIZED OPTION

SENSOR CONNECTOR

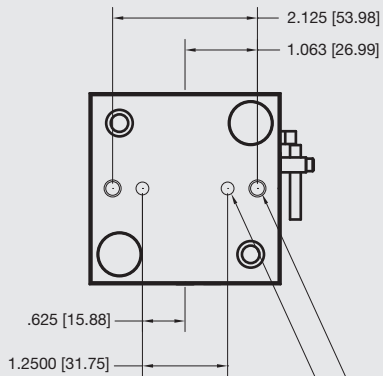
- 1 = POTTED
- 2 = QUICK DISCONNECT
- 3 = QUICK DISCONNECT WITH RIGHT ANGLE

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

Sensor Part # SNQ04, SNC04, SPC04, SPQ04

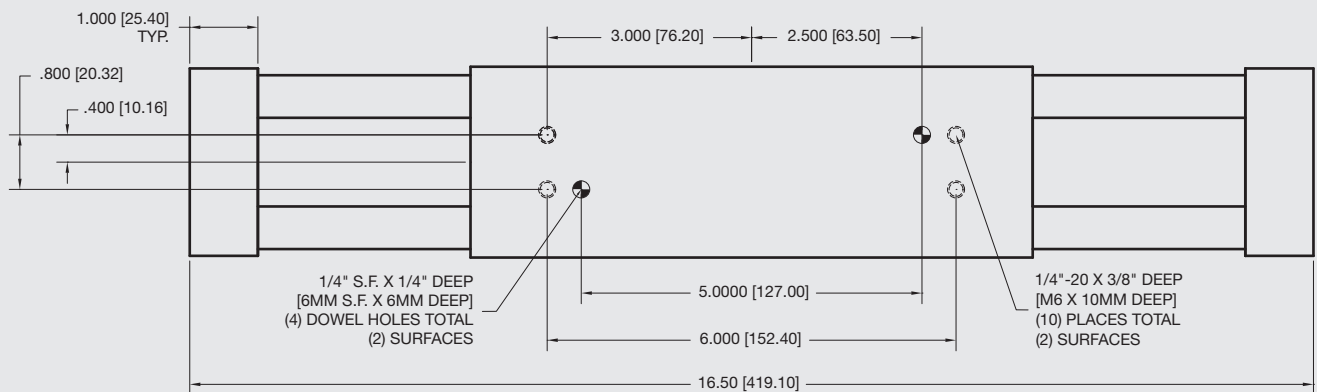
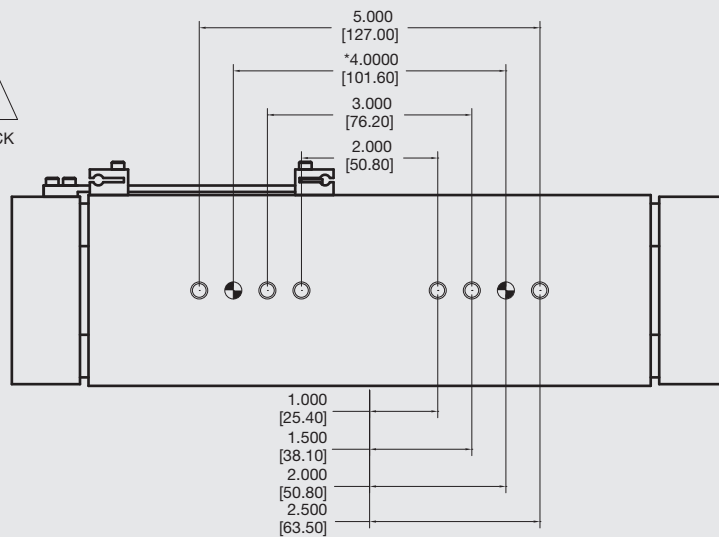
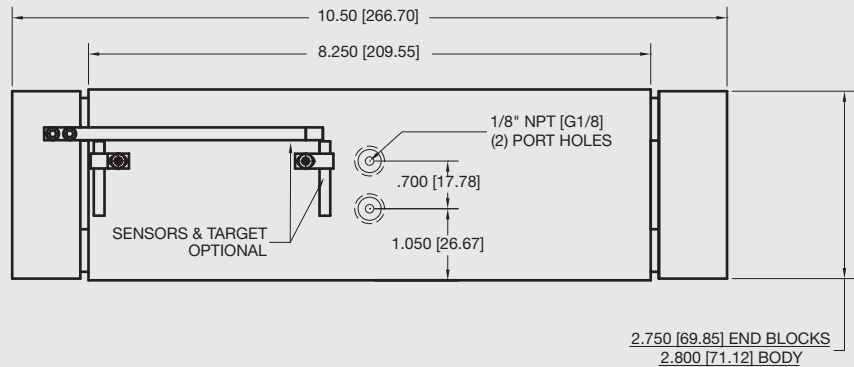
AGW-625-6 Parallel Gripper

Wide-Body, Synchronous/Non-Synchronous



3/16" S.F. X 1/2" DEEP
[5MM S.F. X 12MM DEEP]
(2) DOWELS PER END BLOCK

1/4"-20 X 3/4" DEEP
[M6 X 19MM DEEP]
(2) HOLES PER END BLOCK



Unless noted, all tolerances are as indicated here:



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



Metric Threads Course Pitch

Imperial: Inch

0.00 = ± 0.01
0.000 = ± 0.005
0.0000 = ± 0.0005

Metric: [0.] = ± 0.25
[mm] [0.0] = ± 0.13
[0.00] = ± 0.13



AGP-23 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: .30 in [7.6mm]

Gripping Force @ 80 PSI [5.5 BAR]

Closing: 29 lbs [129 N]

Opening: 26 lbs [115 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

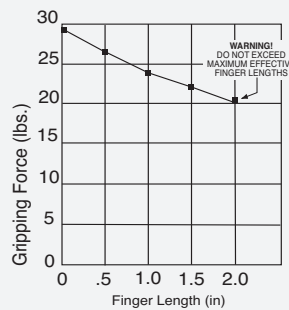
from Center: ± 0.002 [.06 mm]

Loading Capacity:

	Static	Dynamic
Max Tensile T	300 lbs [1300 N]	100 lbs [444 N]
Max Compressive C	300 lbs [1300 N]	100 lbs [444 N]

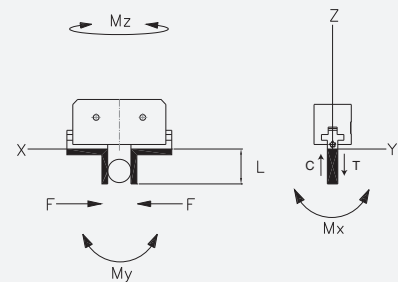
January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



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

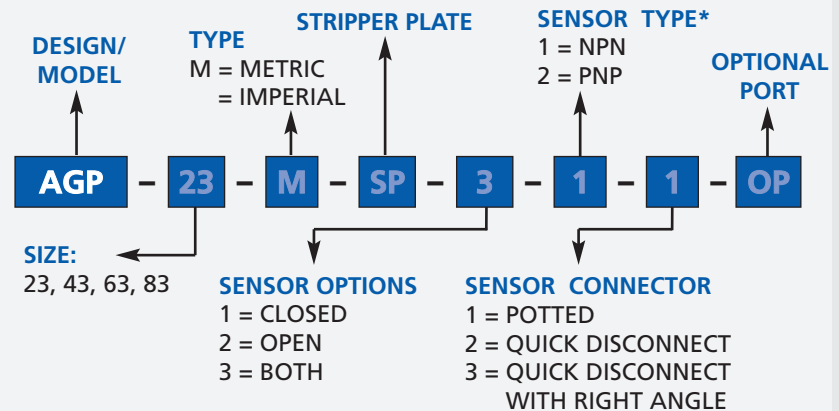
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

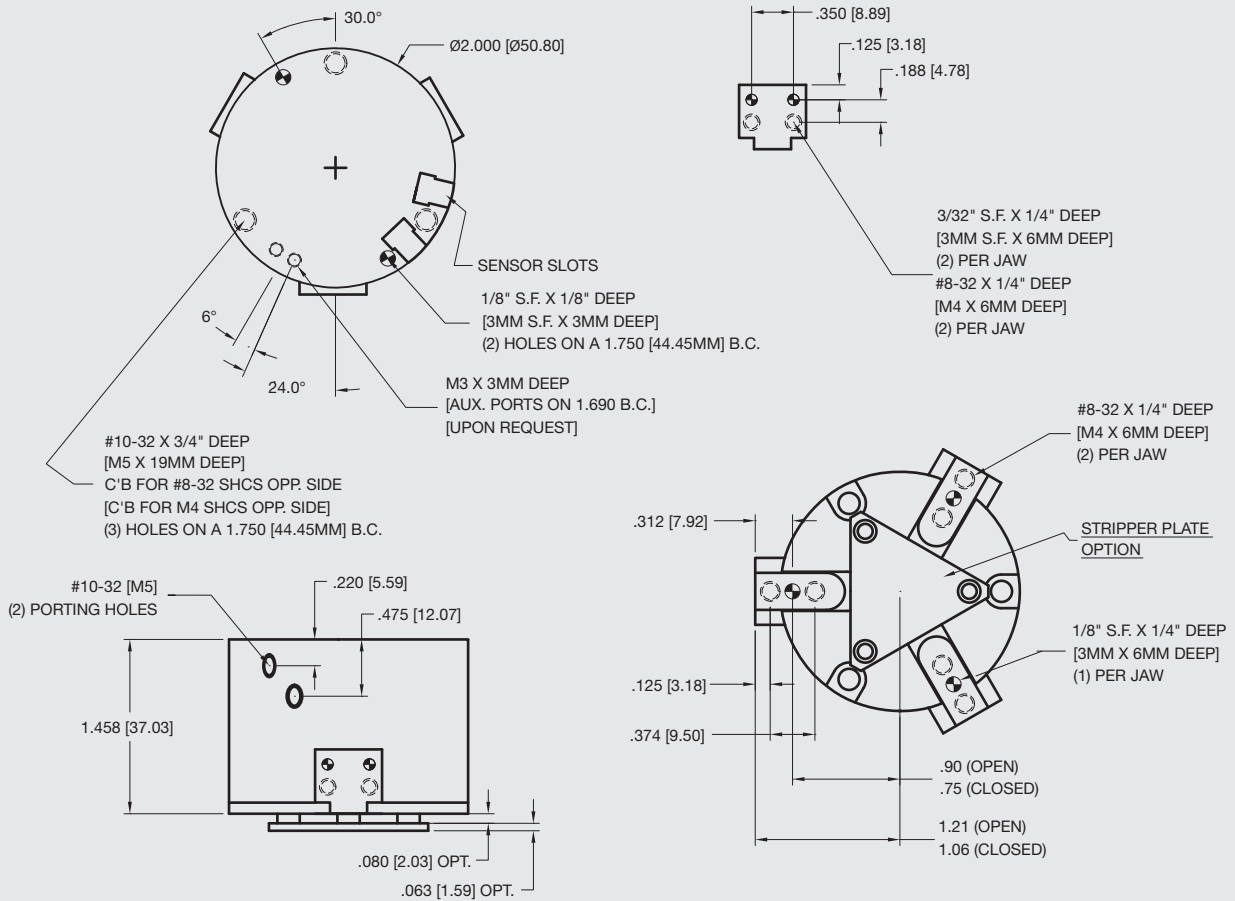


* NOTE: Hall Effect 4mm dia., 5-24 VDC, 22 mA and comes with 2 meter cable.

Sensor Part # SHN02, SHNQ4, SHP02, SHPQ4

AGP-23 Three Jaw Parallel Gripper

T-Slot Bearing Series



Unless noted, all tolerances are as indicated here:



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



Metric Threads Course Pitch

Imperial:
Inch

0.00 = ±.01
0.000 = ±.005
0.0000 = ±.0005

Metric:
[mm]
[0.] = ±.25
[0.0] = ±.13
[0.00] = ±.013



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:

	Static	Dynamic
Max Tensile T	760 lbs [3380 N]	270 lbs [1200 N]
Max Compressive C	760 lbs [3380 N]	270 lbs [1200 N]

Max Moment M_x 760 in/lb [85.8 Nm] 270 in/lb [30.5 Nm]

Max Moment M_y 760 in/lb [85.8 Nm] 270 in/lb [30.5 Nm]

Max Moment M_z 300 in/lb [34 Nm] 100 in/lb [11.2 Nm]

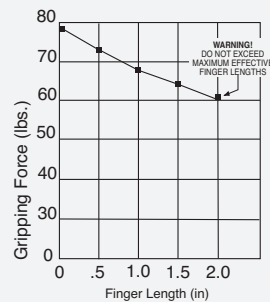
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 1.0 lbs [.5 kg]

Piston Diameter: 2.0 in. [50.8 mm]

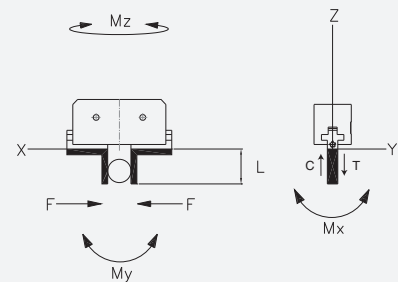
January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



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

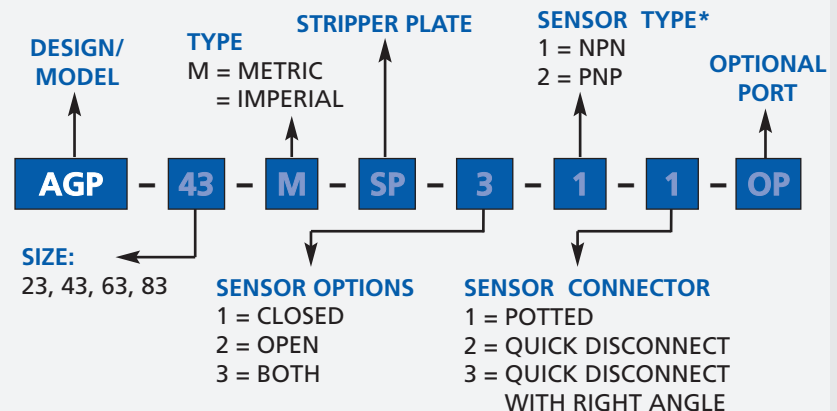
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

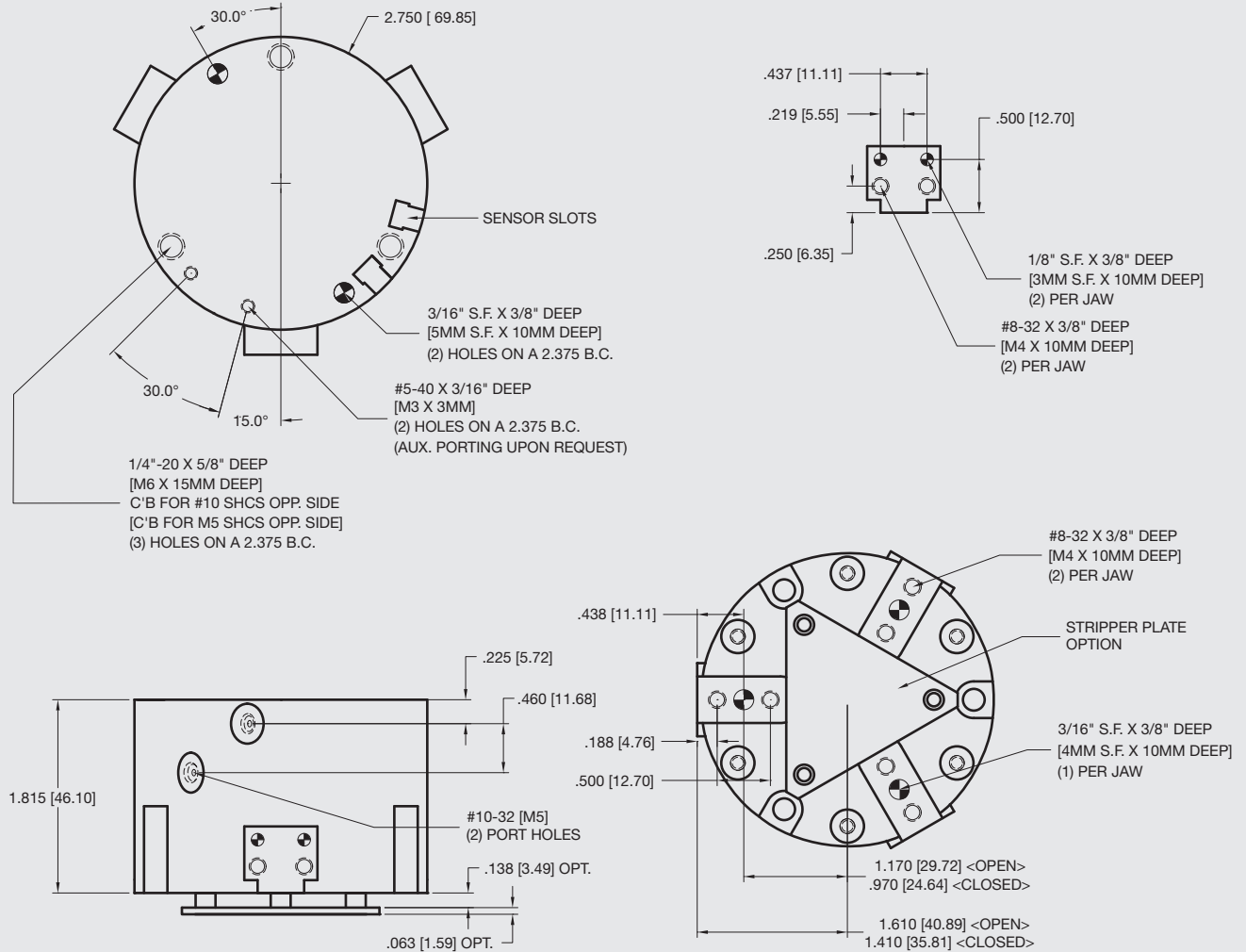


* NOTE: Hall Effect 4mm dia., 5-24 VDC, 22 mA and comes with 2 meter cable.

Sensor Part # SHN02, SHN04, SHP02, SHP04

AGP-43 Three Jaw Parallel Gripper

T-Slot Bearing Series



Unless noted, all tolerances are as indicated here:



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



Metric Threads Course Pitch

Imperial:
Inch 0.00 = $\pm .01$
0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
[mm] [0.0] = $\pm .13$
[0.00] = $\pm .013$

AGP-63 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: .62 in [15.7 mm]

Gripping Force @ 80 PSI [5.5 BAR]

Closing: 200 lbs [889 N]
Opening: 194 lbs [862 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:

	Static	Dynamic
Max Tensile T	1250 lbs [5560 N]	400 lbs [1780 N]
Max Compressive C	1250 lbs [5560 N]	400 lbs [1780 N]

Max Moment M_x 1000 in/lb [112 Nm] 400 in/lb [45 Nm]

Max Moment M_y 1000 in/lb [112 Nm] 400 in/lb [45 Nm]

Max Moment M_z 1000 in/lb [112 Nm] 300 in/lb [33.9 Nm]

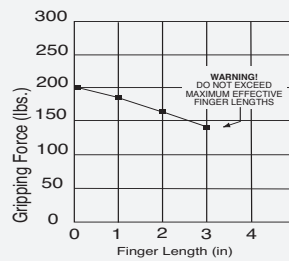
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 2.3 lbs [1 kg]

Piston Diameter: 2.75 in [69.8 mm]

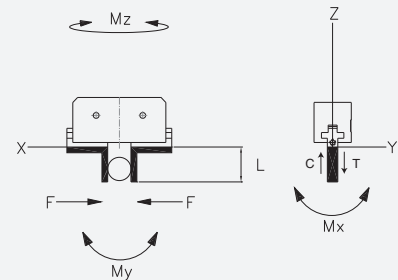
January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



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

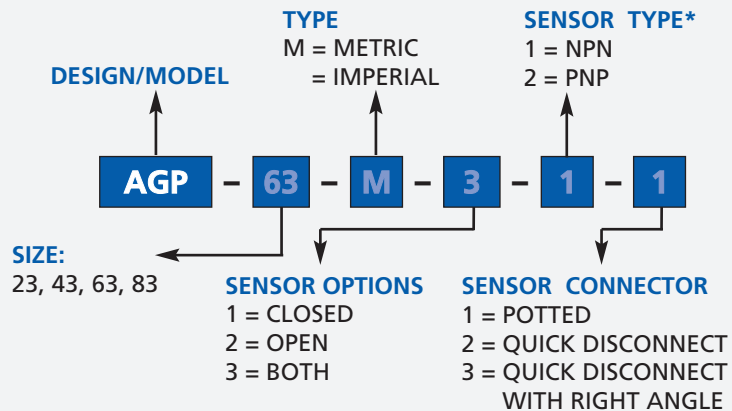
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

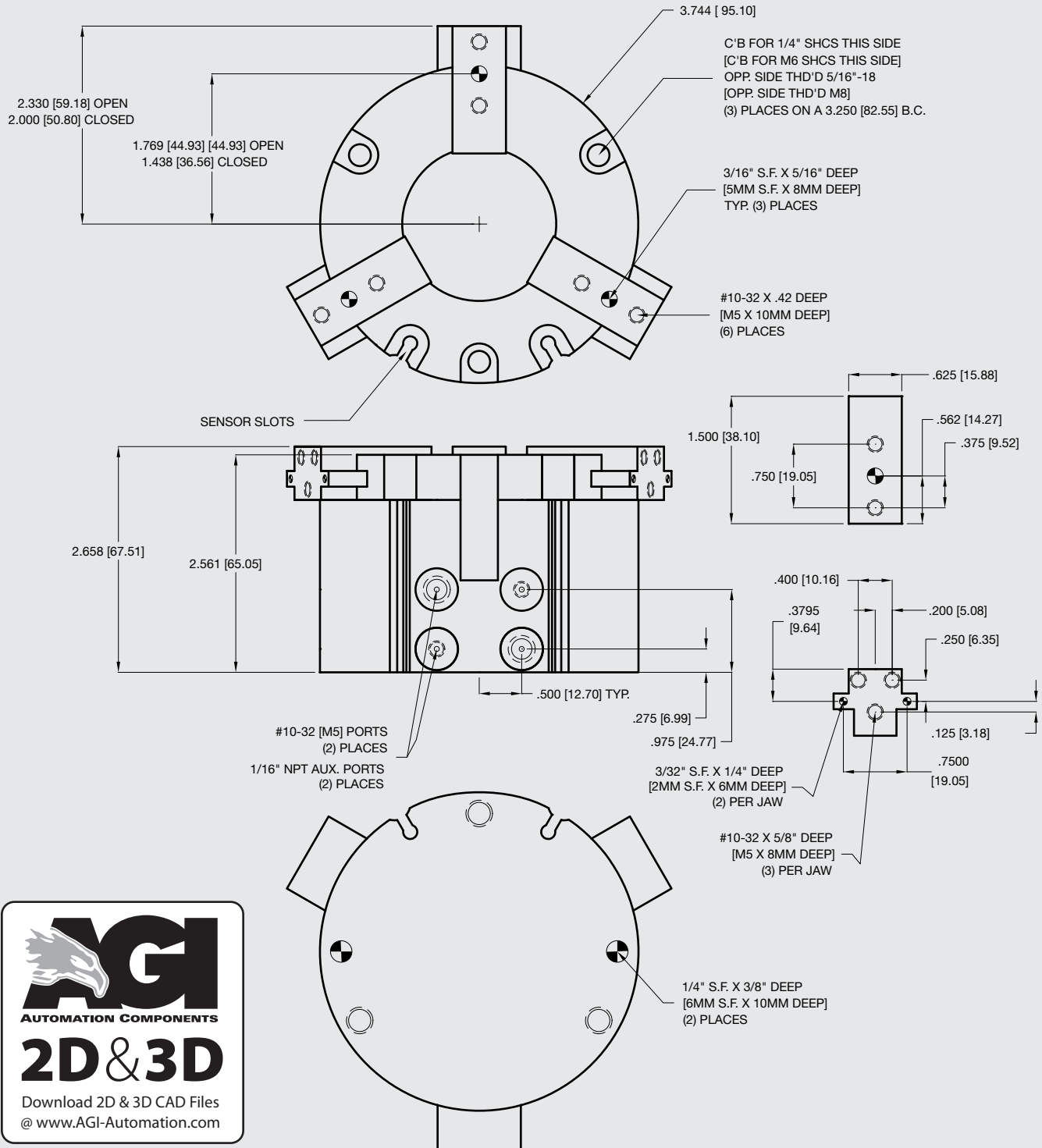


* NOTE: Hall Effect 4mm dia., 5-24 VDC, 22 mA and comes with 2 meter cable.

Sensor Part # SHN02, SHNQ4, SHP02, SHPQ4

AGP-63 Three Jaw Parallel Gripper

T-Slot Bearing Series



Unless noted, all tolerances are as indicated here:



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



Metric Threads Course Pitch

Imperial:
Inch 0.00 = $\pm .01$
0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
[mm] [0.0] = $\pm .13$
[0.00] = $\pm .013$



AGP-83 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: .88 in [22.3 mm]

Gripping Force @ 80 PSI [5.5 BAR]

Closing: 280 lbs [1245 N]
Opening: 285 lbs [1267 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:

	Static	Dynamic
Max Tensile T	2100 lbs [9300 N]	760 lbs [3380 N]
Max Compressive C	2100 lbs [9300 N]	760 lbs [3380 N]
Max Moment M_x	2100 in/lb [237 Nm]	760 in/lb [85.8 Nm]
Max Moment M_y	2100 in/lb [237 Nm]	760 in/lb [85.8 Nm]
Max Moment M_z	1600 in/lb [180 Nm]	550 in/lb [62.1 Nm]

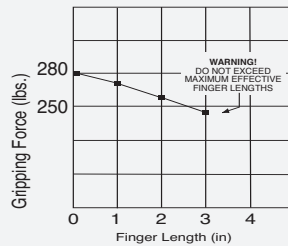
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 6.0 lbs [2.7 kg]

Piston Diameter: 3.5 in [89 mm]

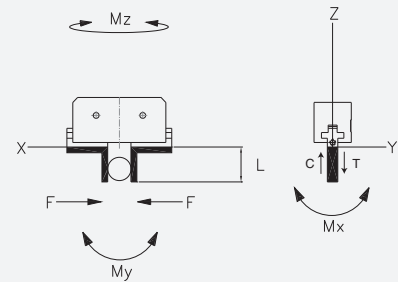
January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



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

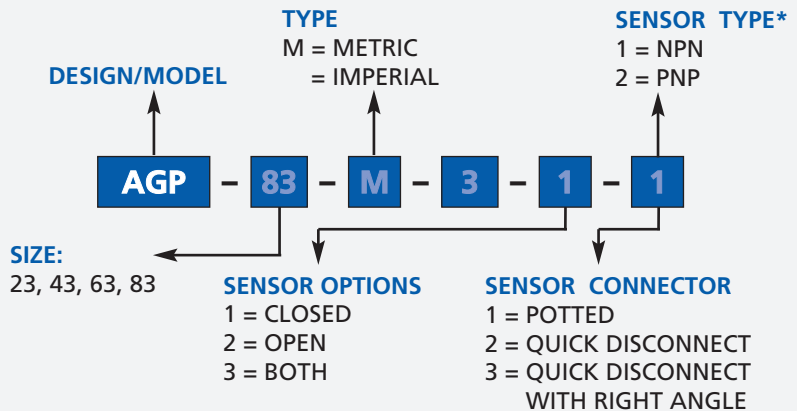
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

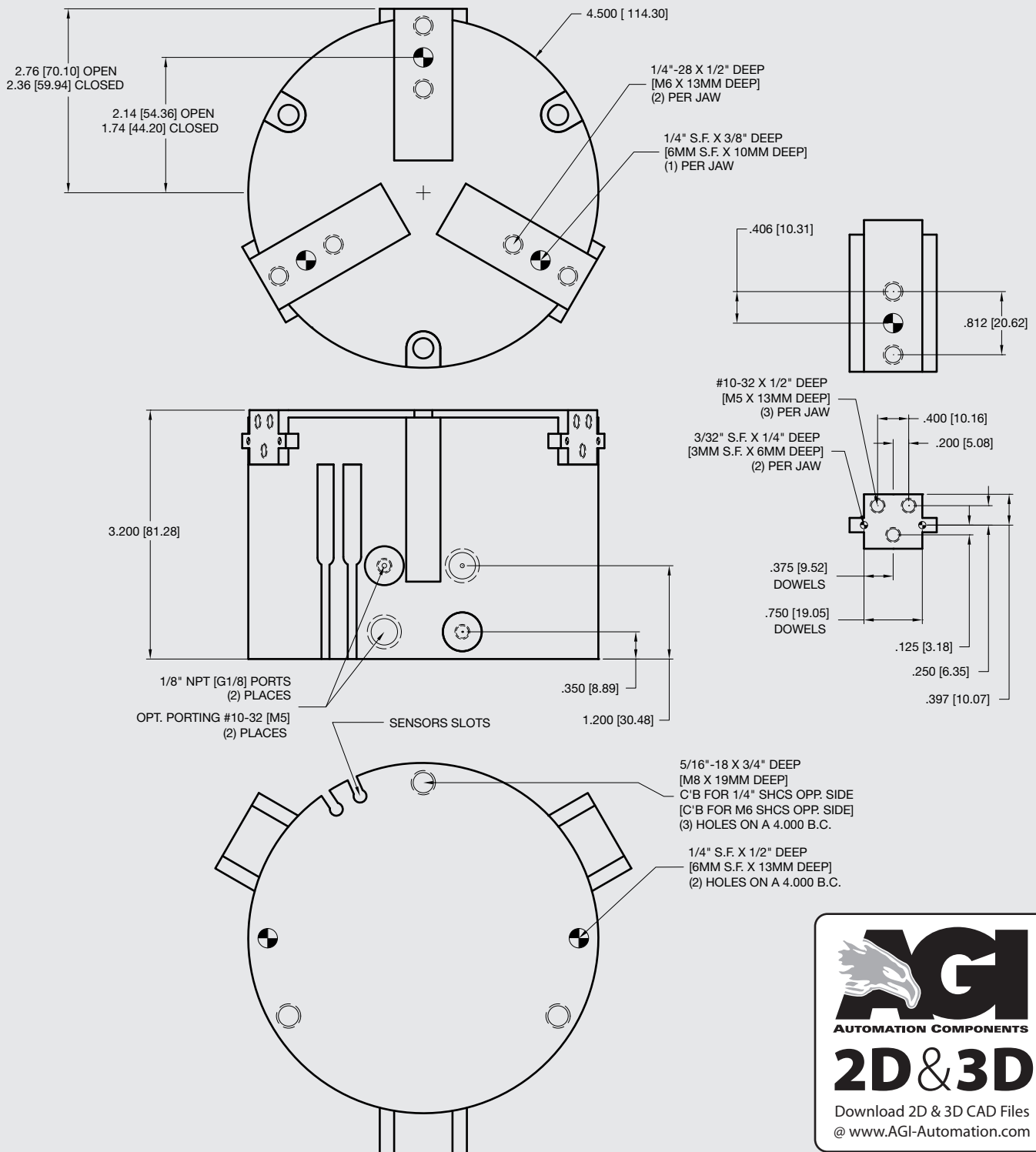


* NOTE: Hall Effect 4mm dia., 5-24 VDC, 22 mA and comes with 2 meter cable.

Sensor Part # SHN02, SHNQ4, SHP02, SHPQ4

AGP-83 Three Jaw Parallel Gripper

T-Slot Bearing Series



Unless noted, all tolerances are as indicated here:



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



Metric Threads Course Pitch

Imperial:
Inch 0.00 = $\pm .01$
0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
[mm] [0.0] = $\pm .13$
[0.00] = $\pm .013$



AGM Gripper & Rotary Modules

Rotary Manifold, Ultra Low Profile, Zero Backlash Units



ADVANCED FEATURES AND BENEFITS

- Internal Porting of Motion Module thru a rotary manifold.
- This prevents airlines from twisting, rubbing and sagging outside the unit.
- The rotary manifold connects the gripper and rotary actuator.
- This yields a versatile automation module system for assembly.

PRODUCT DETAILS:

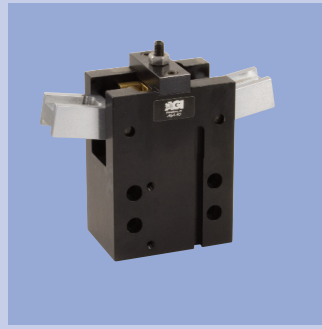
Multi-Motion Actuators provide linear and rotary motion from one unit. The grip-and-turn motions are independent from one another, making it easy to sequence the two motions. The Multi Motion Module yields a versatile automation module for part pick and place applications and orientation operations. Internal porting prevents airlines from twisting, snagging, and breaking outside the unit.

MODULE COMBINATIONS:

Rotary	+	Gripper	=	Part #
AGR-1-90	+	AGP-250	=	AGM-1
AGR-1-180	+	AGP-250	=	AGM-2
AGR-2-90	+	AGP-250	=	AGM-3
AGR-2-180	+	AGP-250	=	AGM-4
AGR-2-90	+	AGP-375	=	AGM-5
AGR-2-180	+	AGP-375	=	AGM-6
AGR-2-90	+	AGP-500	=	AGM-7
AGR-2-180	+	AGP-500	=	AGM-8
AGR-2-90	+	AGW-250	=	AGM-9
AGR-2-180	+	AGW-250	=	AGM-10
AGR-3-90-M	+	AGW-375-1	=	AGM-11
AGR-3-180-M	+	AGW-375-1	=	AGM-12
AGR-3-90-M	+	AGW-375-2	=	AGM-13
AGR-3-180-M	+	AGW-375-2	=	AGM-14
AGR-3-90-M	+	AGW-375-4	=	AGM-15
AGR-3-180-M	+	AGW-375-4	=	AGM-16

A total of 80 possible combinations available online

For detailed product specifications and CAD drawings, please visit our website at www.AGI-Automation.com



AGA Series

Angular Grippers





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 [.03 mm]

Repeatability from Center: ± 0.002 [.06 mm]

Loading Capacity:

	Static	Dynamic
Max Tensile T	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]

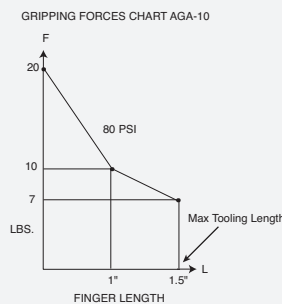
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: XX oz [XX g]

Piston Diameter: 0.5 in [13 mm]

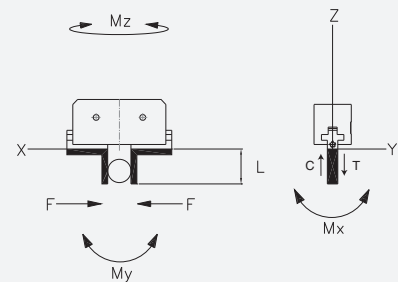
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HOLDING FORCES CHART



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

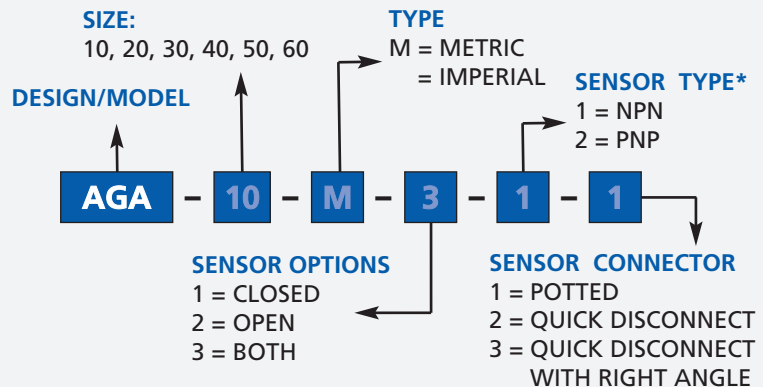
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

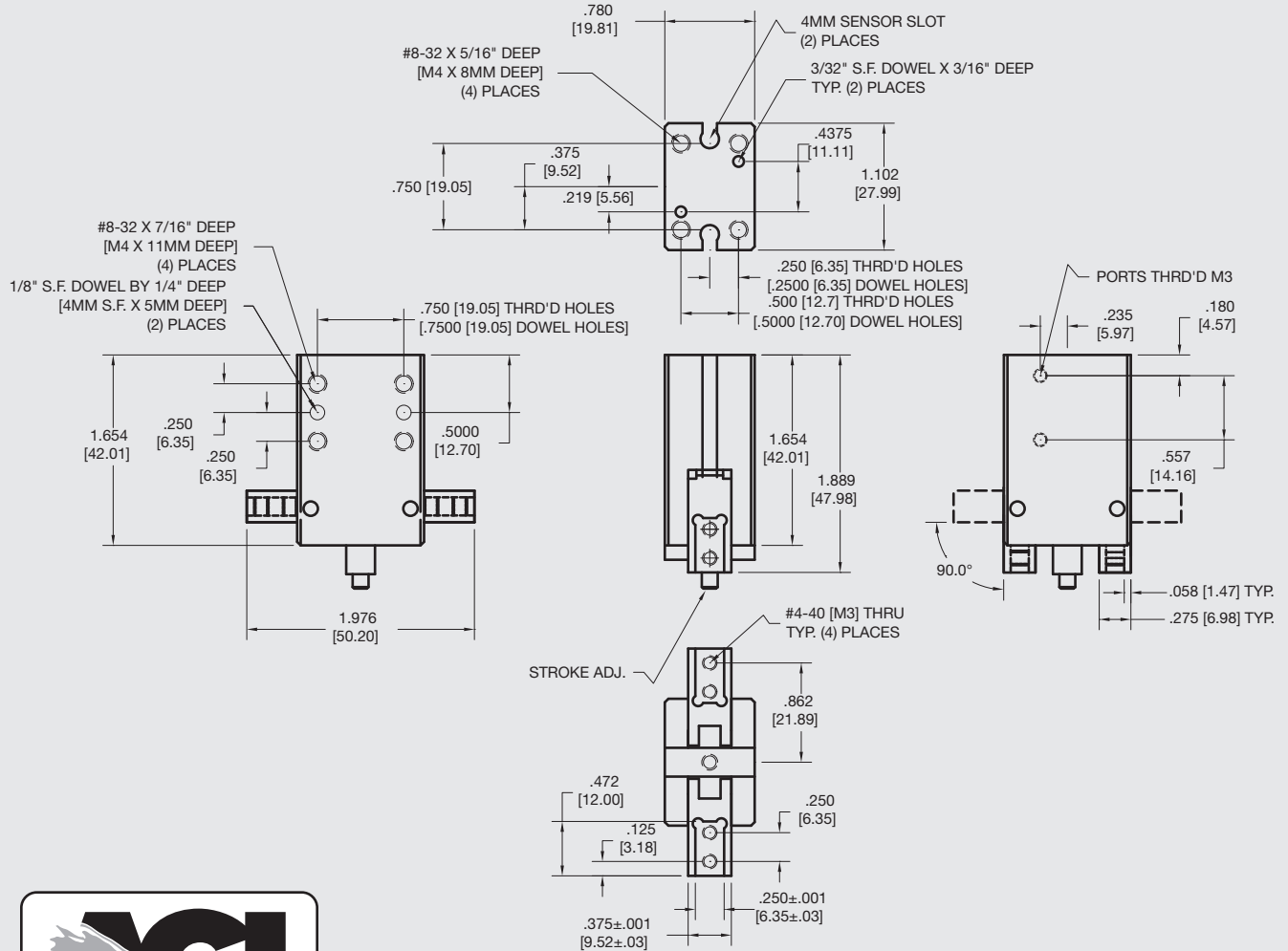
HOW TO ORDER

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 # SNQ04, SNC02, SPC02, SPQ04



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]



Metric Threads Course Pitch

Imperial:
Inch

0.00 = ±.01
0.000 = ±.005
0.0000 = ±.0005

Metric:
[mm]
[0.] = ±.25
[0.0] = ±.13
[0.00] = ±.013

AGA-20 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: 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:

	Static	Dynamic
Max Tensile T	50 lbs [222 N]	20 lbs [89 N]
Max Compressive C	50 lbs [222 N]	20 lbs [89 N]

Max Moment M_x 60 in/lb [6.8 Nm] 20 in/lb [2.3 Nm]

Max Moment M_y 120 in/lb [13.6 Nm] 40 in/lb [4.5 Nm]

Max Moment M_z 60 in/lb [6.8 Nm] 20 in/lb [2.3 Nm]

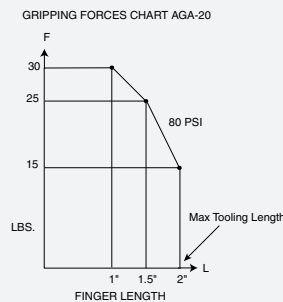
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 7 oz [198 g]

Piston Diameter: 0.787 in [20 mm]

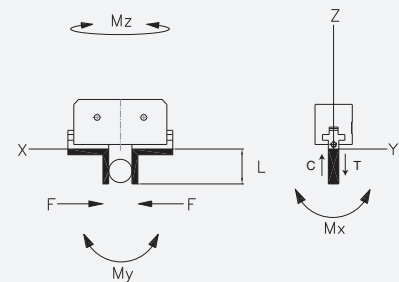
January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



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

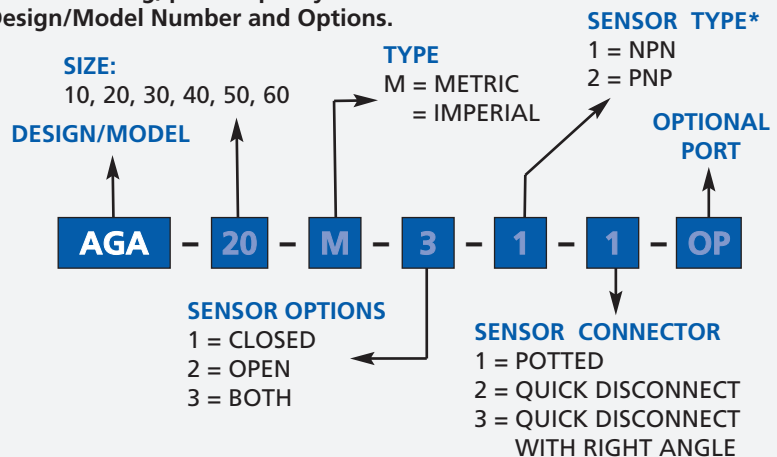
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

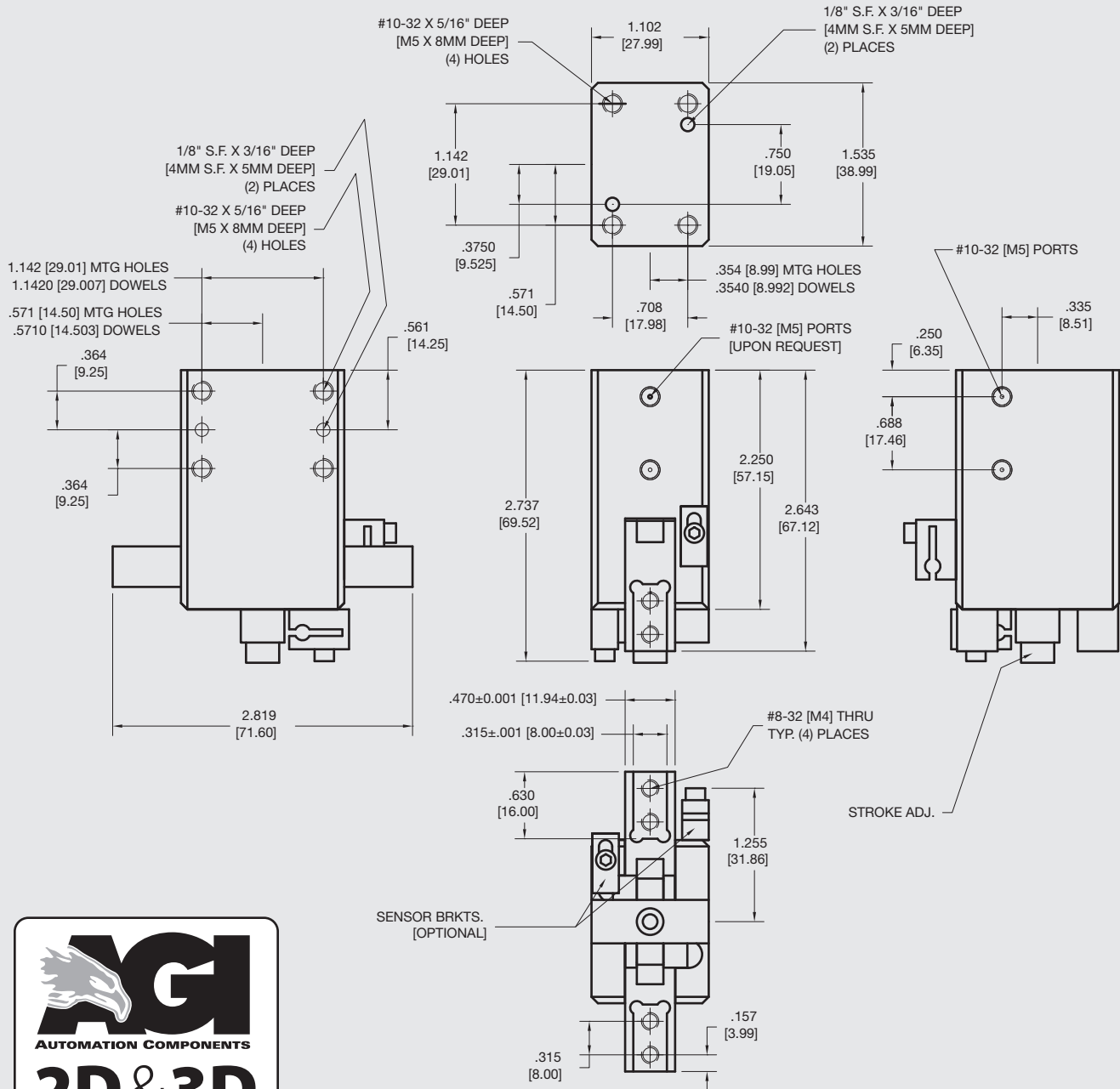


* NOTE: Hall Effect 4mm dia., 5-24 VDC, 22 mA and comes with 2 meter cable.

Sensor Part # SNQ04, SNC02, SPC02, SPQ04

AGA-20 Angular Gripper

Double Guided, Low Profile



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]



Metric Threads Course Pitch

Imperial:
Inch

0.00 = ±0.01
0.000 = ±0.005
0.0000 = ±0.0005

Metric:
[mm]
[0.] = ±.25
[0.0] = ±.13
[0.00] = ±0.13



AGA-30 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: 75 lbs [333 N]
Opening: 62 lbs [275 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:

	Static	Dynamic
Max Tensile T	60 lbs [266 N]	30 lbs [130 N]
Max Compressive C	60 lbs [266 N]	30 lbs [130 N]
Max Moment M_x	90 in/lb [10 Nm]	30 in/lb [3.4 Nm]
Max Moment M_y	140 in/lb [15.8 Nm]	35 in/lb [4 Nm]
Max Moment M_z	90 in/lb [10 Nm]	30 in/lb [3.4 Nm]

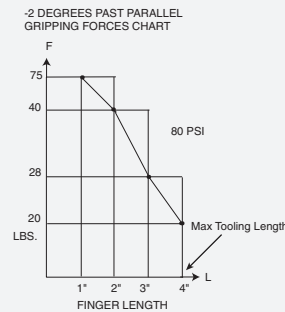
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 1.5 lbs [.7 kg]

Piston Diameter: 1.125 in [28.5 mm]

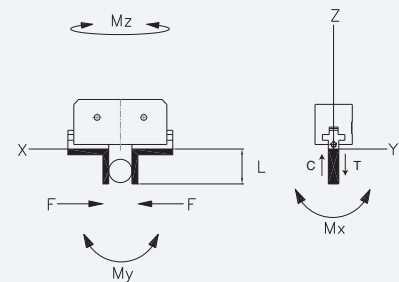
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HOLDING FORCES CHART



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

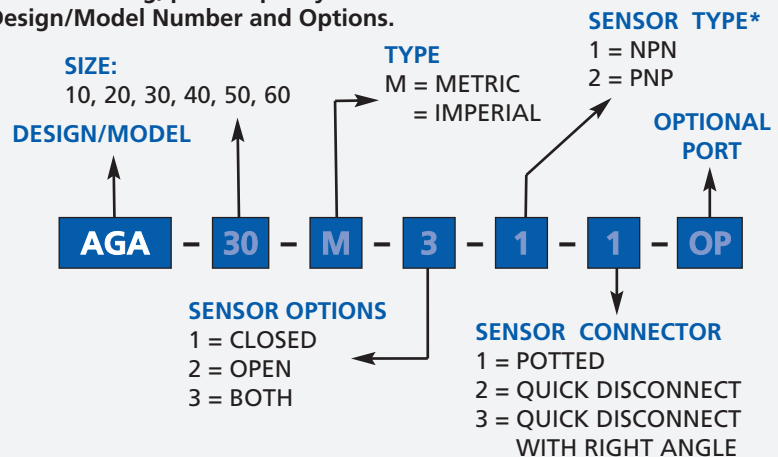
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

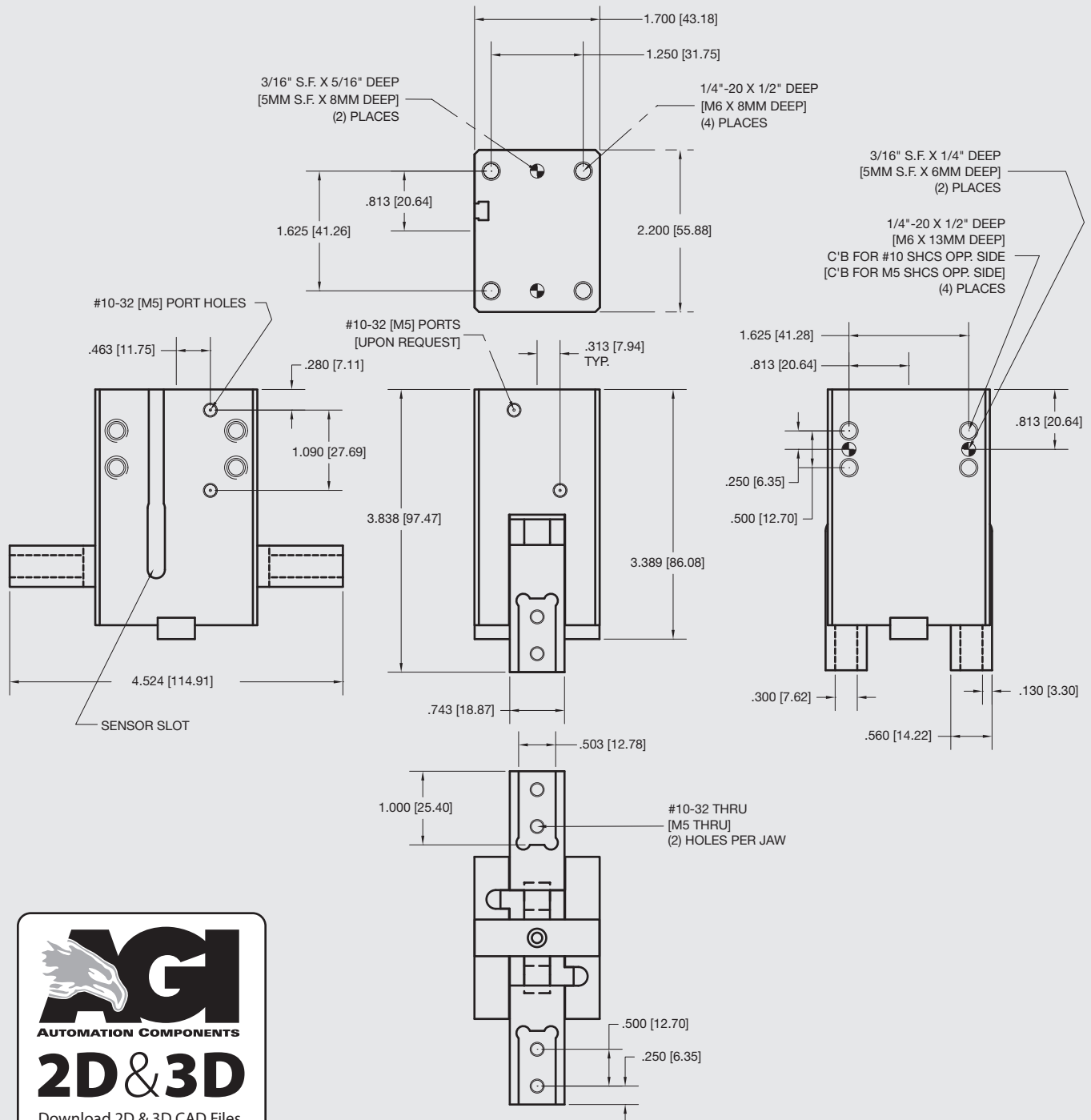
HOW TO ORDER

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 # SNQ04, SNC02, SPC02, SPQ04



Unless noted, all tolerances are as indicated here:



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



Metric Threads Course Pitch

Imperial:
Inch 0.00 = $\pm .01$
0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
[0.0] = $\pm .13$
[0.00] = $\pm .013$



AGA-40 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: 180 lbs [800 N]
 Opening: 168 lbs [747 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:

	Static	Dynamic
Max Tensile T	90 lbs [400 N]	40 lbs [177 N]
Max Compressive C	90 lbs [400 N]	40 lbs [177 N]

Max Moment M_x 150 in/lb [17 Nm] 430 in/lb [4.5 Nm]

Max Moment M_y 180 in/lb [20.3 Nm] 45 in/lb [5 Nm]

Max Moment M_z 150 in/lb [17 Nm] 40 in/lb [4.5 Nm]

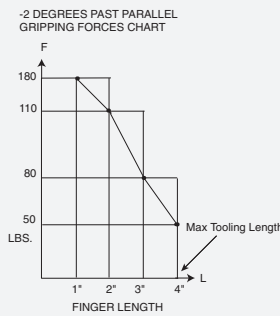
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 2.25 lbs [1 kg]

Piston Diameter: 1.5 in [38 mm]

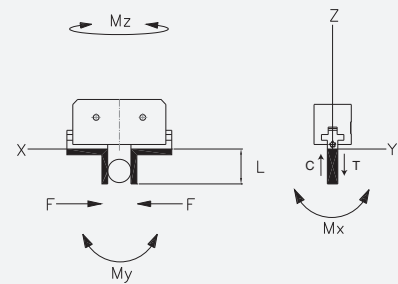
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HOLDING FORCES CHART



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

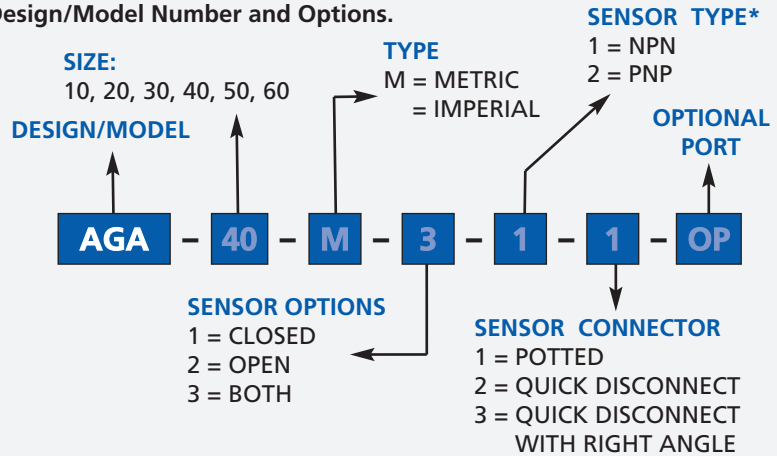
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

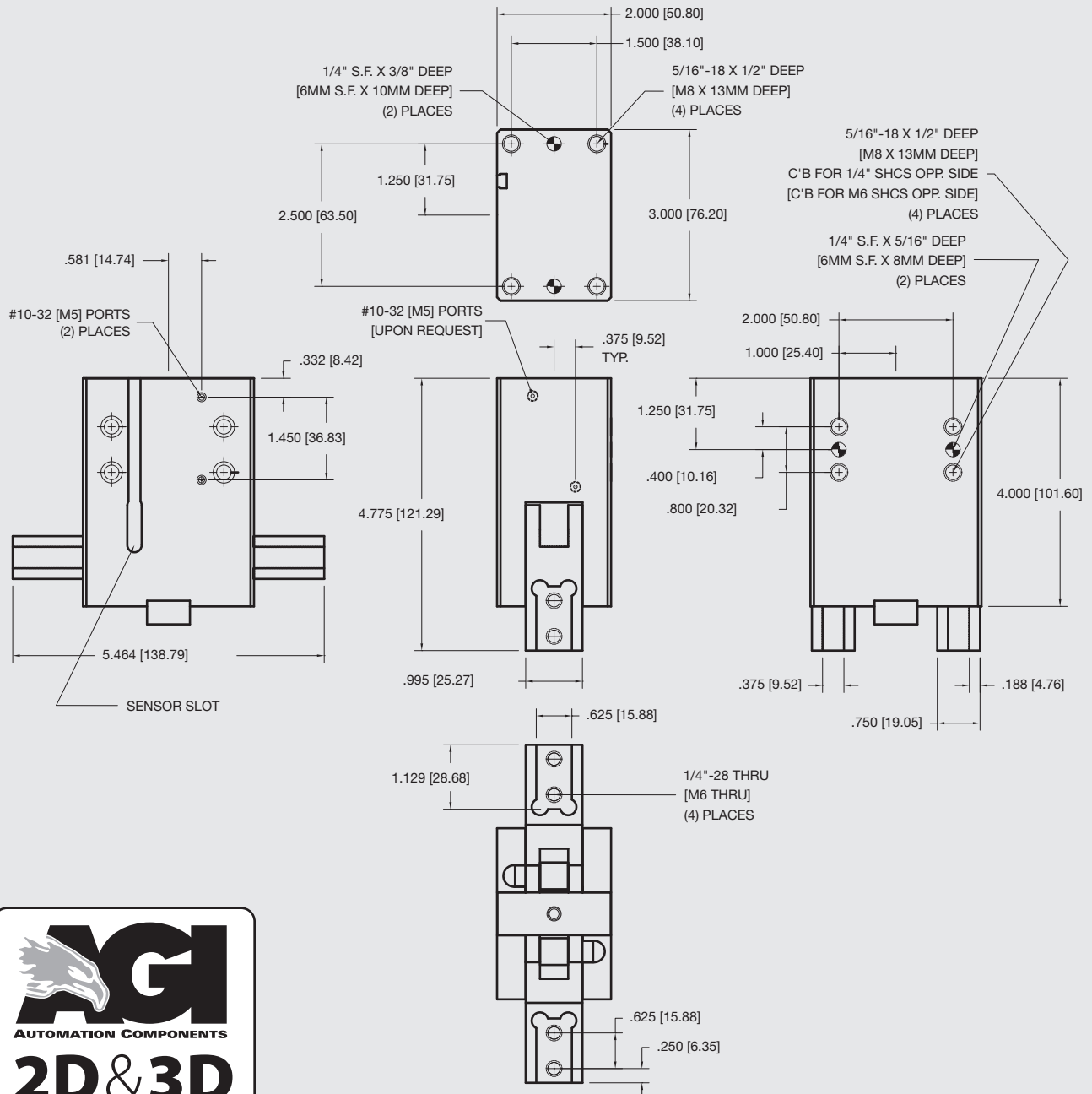
HOW TO ORDER

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 # SNQ04, SNC02, SPC02, SPQ04



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance $\pm .0005"$ [0.13mm]



Metric Threads Course Pitch

Imperial:
Inch 0.00 = $\pm .01$
0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
[mm] [0.0] = $\pm .13$
[0.00] = $\pm .013$



AGA-50 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: 720 lbs [3200 N]
 Opening: 685 lbs [3050 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:

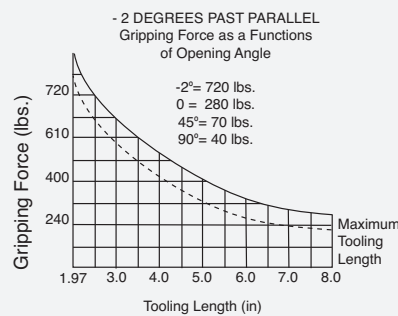
	Static	Dynamic
Max Tensile T	1200 lbs [5330 N]	400 lbs [1780 N]
Max Compressive C	1200 lbs [5330 N]	400 lbs [1780 N]
Max Moment M_x	930 in/lb [105 Nm]	310 in/lb [35 Nm]
Max Moment M_y	880 in/lb [20.3 Nm]	276 in/lb [31.2 Nm]
Max Moment M_z	880 in/lb [99.5 Nm]	276 in/lb [31.2 Nm]

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

Weight: 5.5 lbs [2.3 kg]
Piston Diameter: 2.25 in [57.2 mm]

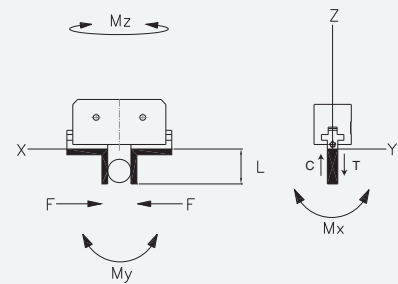
January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



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

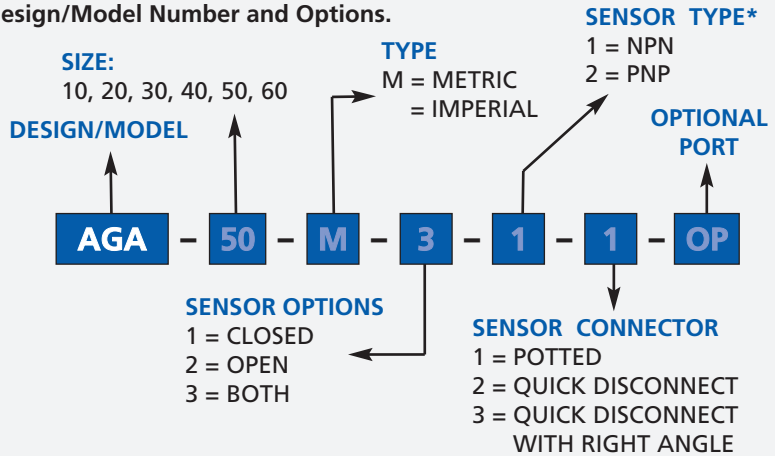
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

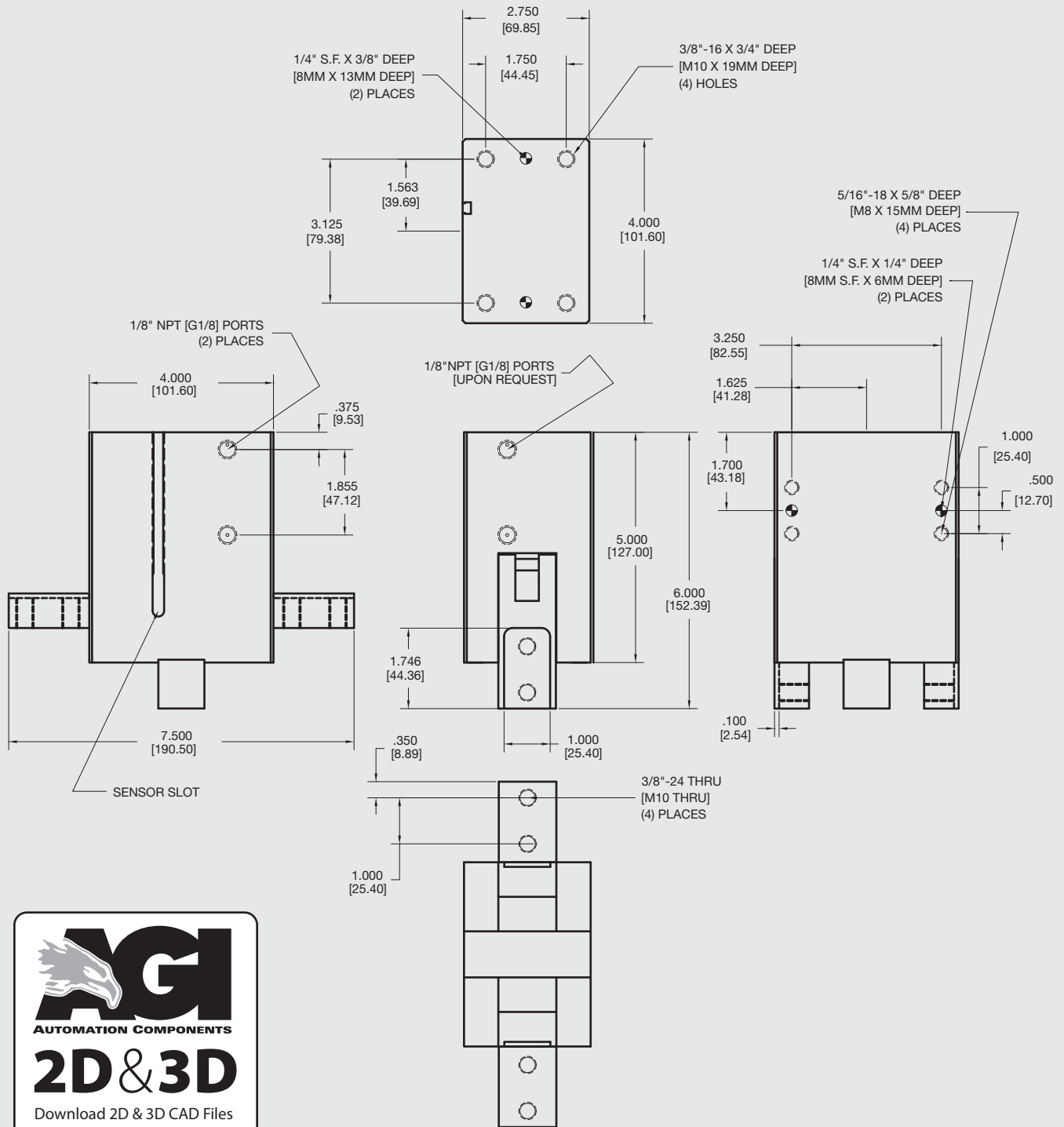
HOW TO ORDER

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 # SNQ04, SNC02, SPC02, SPQ04



Unless noted, all tolerances are as indicated here:



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



Metric Threads Course Pitch

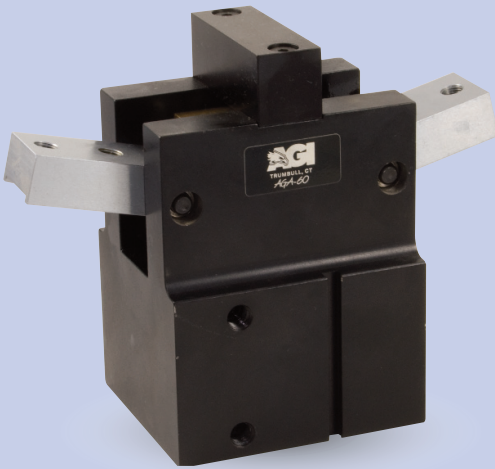
Imperial:
Inch 0.00 = $\pm .01$
0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
[mm] [0.0] = $\pm .13$
[0.00] = $\pm .013$



AGA-60 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: 820 lbs [3600 N]
 Opening: 691 lbs [3070 N]

Time:

Close: 0.5 sec [0.5 sec]
 Open: 0.5 sec [0.5 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:

	Static	Dynamic
Max Tensile T	1200 lbs [5330 N]	400 lbs [1780 N]
Max Compressive C	1200 lbs [5330 N]	400 lbs [1780 N]
Max Moment M_x	930 in/lb [105 Nm]	310 in/lb [35 Nm]
Max Moment M_y	880 in/lb [99.5 Nm]	276 in/lb [31.2 Nm]
Max Moment M_z	880 in/lb [99.5 Nm]	276 in/lb [31.2 Nm]

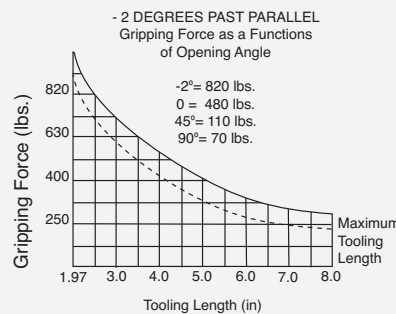
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 6 lbs [2.7 kg]

Piston Diameter: 3.0 in [76 mm]

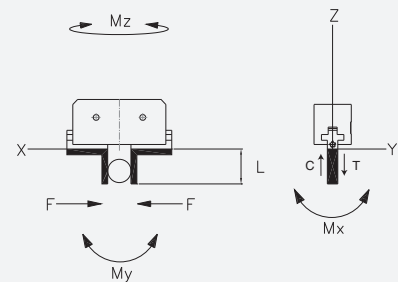
January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



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

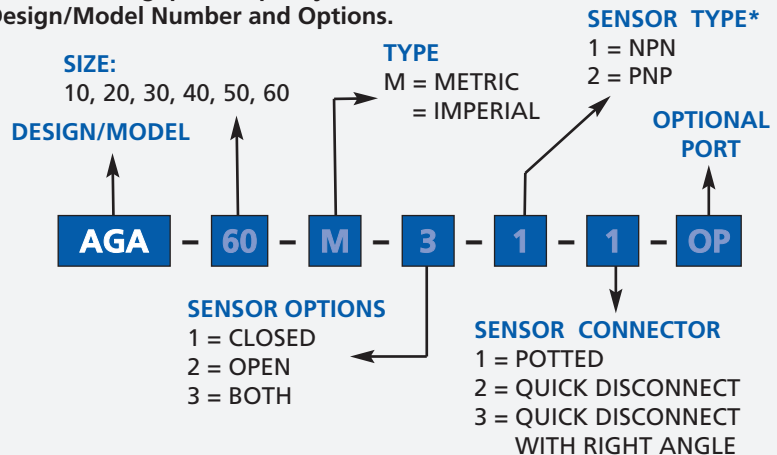
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

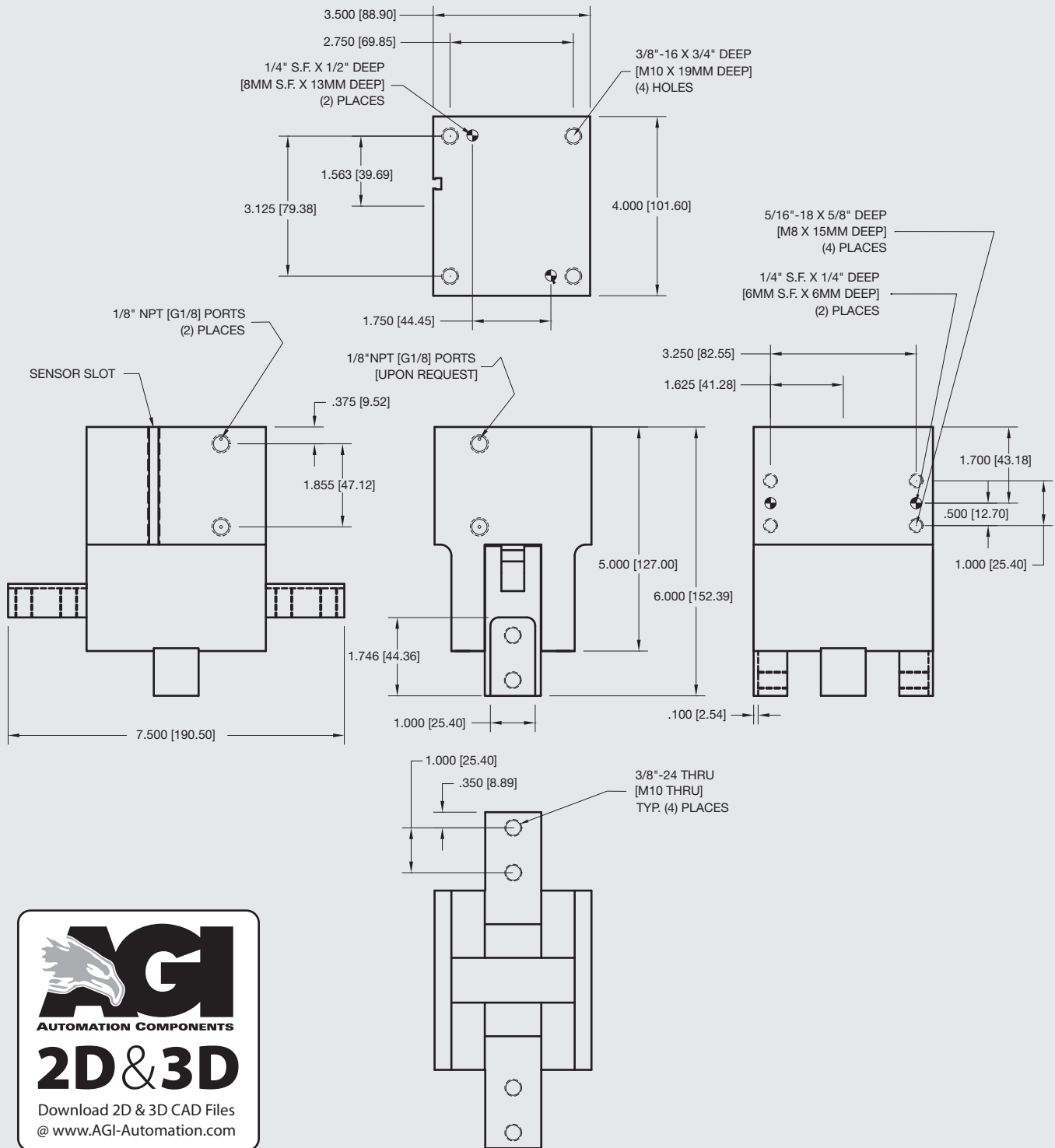
HOW TO ORDER

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 # 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:
Inch 0.00 = ±.01
0.000 = ±.005
0.0000 = ±.0005

Metric: [0.] = ±.25
[mm] [0.0] = ±.13
[0.00] = ±.013



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:

	Static	Dynamic
Max Tensile T	50 lbs [222 N]	20 lbs [89 N]
Max Compressive C	50 lbs [222 N]	20 lbs [89 N]

Max Moment M_x 60 in/lb [6.8 Nm] 20 in/lb [2.3 Nm]

Max Moment M_y 120 in/lb [13.6 Nm] 40 in/lb [4.5 Nm]

Max Moment M_z 60 in/lb [6.8 Nm] 20 in/lb [2.3 Nm]

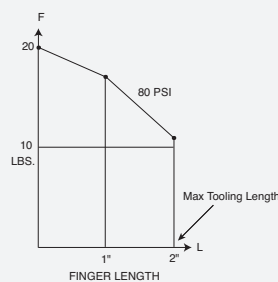
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 1.0 lb [0.45 kg]

Piston Diameter: 0.787 in [20 mm]

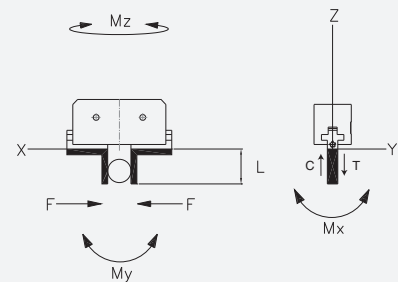
January 2009 - PATENTED Made in the USA

HOLDING FORCES CHART



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

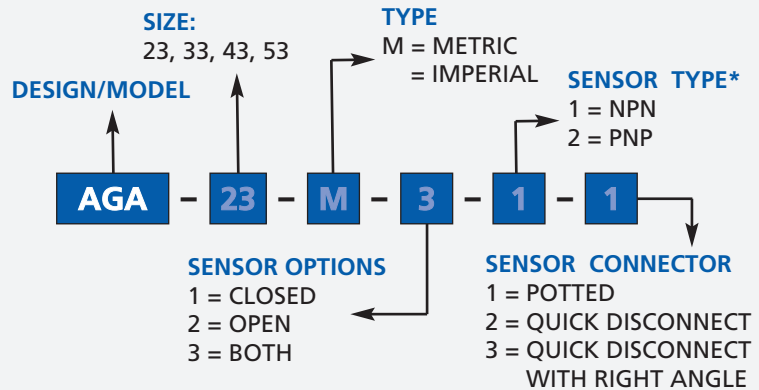
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

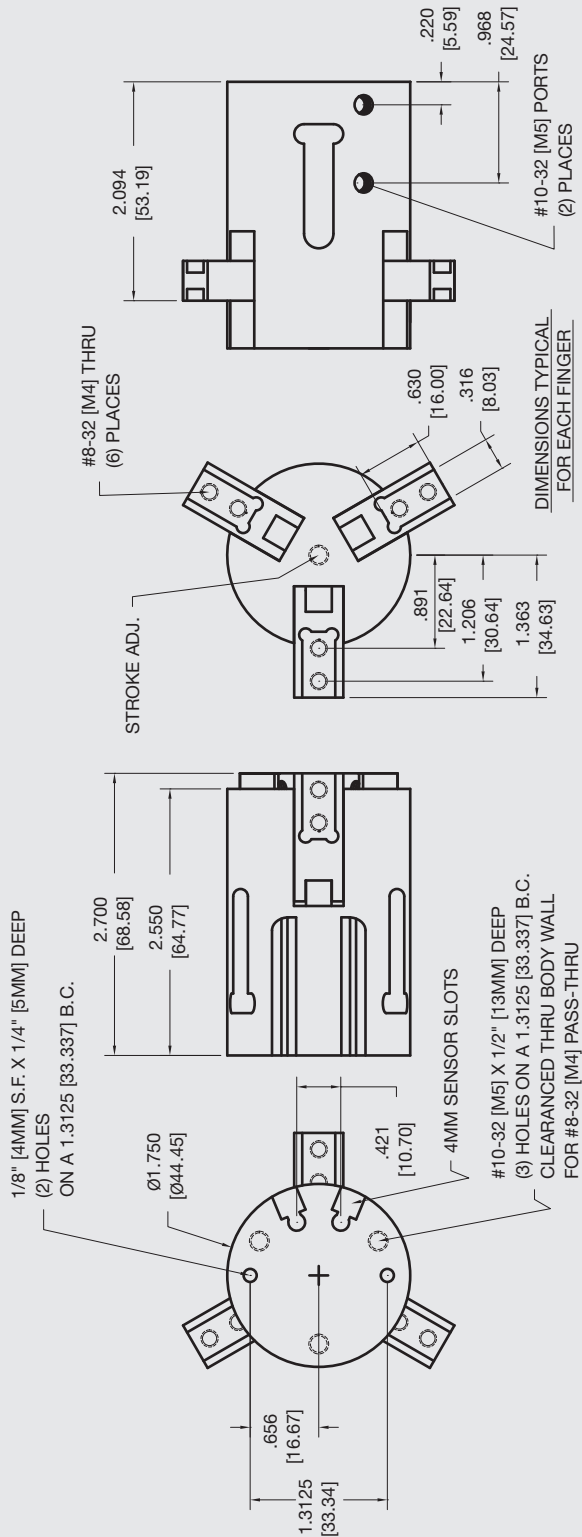
HOW TO ORDER

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 # SNQ04, SNC02, SPC02, SPQ04



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance $\pm .0005"$ [0.13mm]



Metric Threads Course Pitch

Imperial:
Inch 0.00 = $\pm .01$
0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
[0.0] = $\pm .13$
[0.00] = $\pm .013$

AGA-33 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: 26 lbs [115 N]
Opening: 22 lbs [97 N]

Time:

Close: 0.3 sec [0.3 sec]
Open: 0.3 sec [0.3 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:

	Static	Dynamic
Max Tensile T	60 lbs [266 N]	30 lbs [130 N]
Max Compressive C	60 lbs [266 N]	30 lbs [130 N]

Max Moment M_x 90 in/lb [10 Nm] 30 in/lb [3.4 Nm]

Max Moment M_y 140 in/lb [15.8 Nm] 35 in/lb [4 Nm]

Max Moment M_z 90 in/lb [10 Nm] 30 in/lb [3.4 Nm]

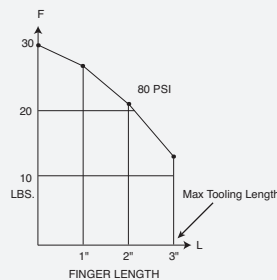
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 2 lbs [1 kg]

Piston Diameter: 1.125 in [28.5 mm]

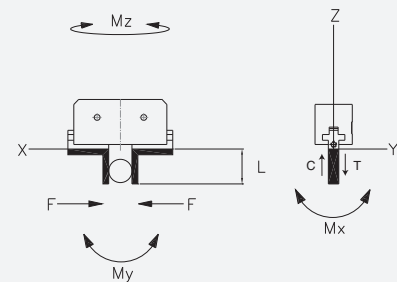
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HOLDING FORCES CHART



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

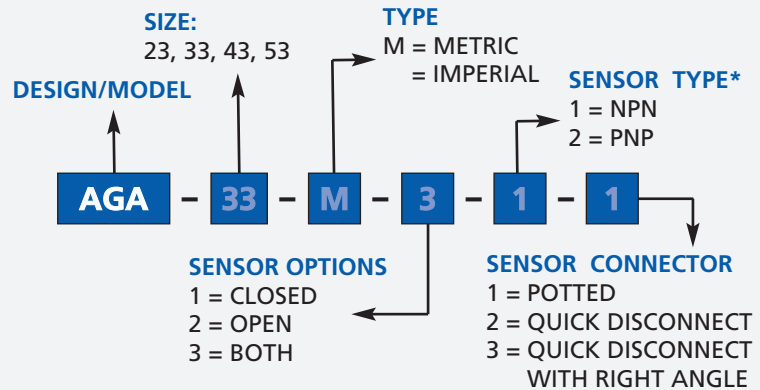
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

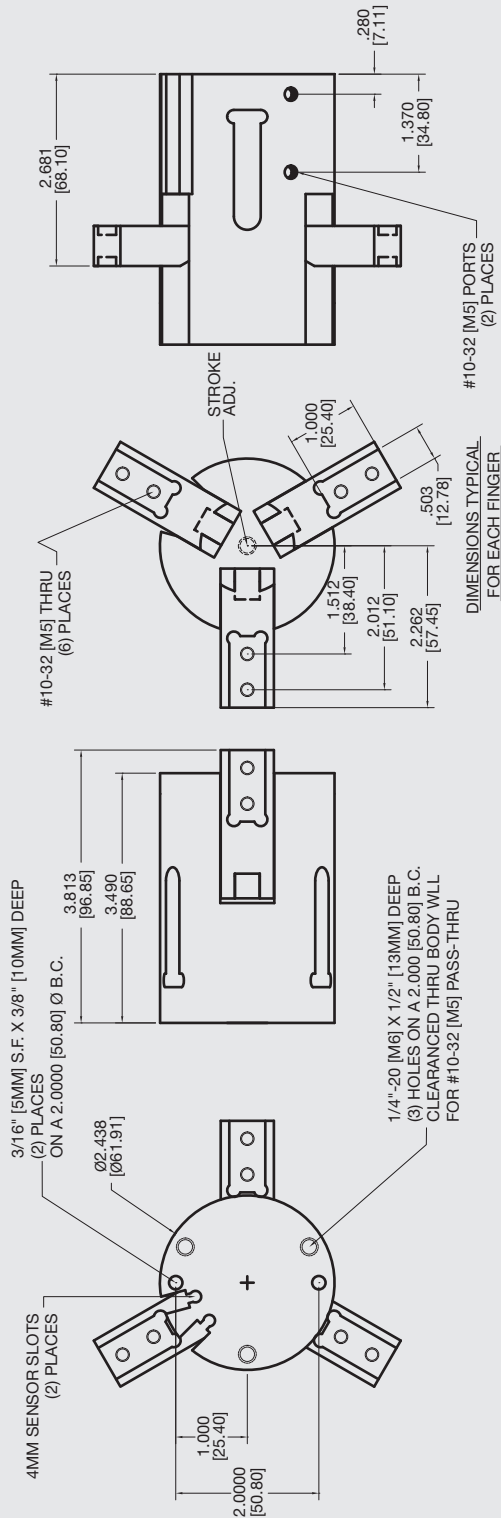
HOW TO ORDER

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 # SNQ04, SNC02, SPC02, SPQ04



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance $\pm .0005"$ [0.13mm]



Metric Threads Course Pitch

Imperial:
Inch 0.00 = $\pm .01$
0.000 = $\pm .005$
0.0000 = $\pm .0005$

Metric: [0.] = $\pm .25$
[0.0] = $\pm .13$
[0.00] = $\pm .013$



AGA-43 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: 60 lbs [266 N]
Opening: 55 lbs [244 N]

Time:

Close: 0.4 sec [0.4 sec]
Open: 0.4 sec [0.4 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:

	Static	Dynamic
Max Tensile T	90 lbs [400 N]	40 lbs [177 N]
Max Compressive C	90 lbs [400 N]	40 lbs [177 N]

Max Moment M_x 150 in/lb [17 Nm] 430 in/lb [4.5 Nm]

Max Moment M_y 180 in/lb [20.3 Nm] 45 in/lb [5 Nm]

Max Moment M_z 150 in/lb [17 Nm] 40 in/lb [4.5 Nm]

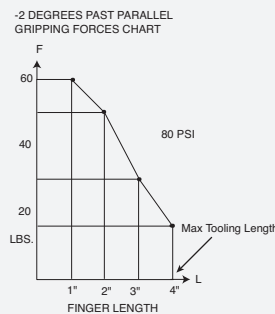
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 3.5 lbs [1.6 kg]

Piston Diameter: 1.5 in [38 mm]

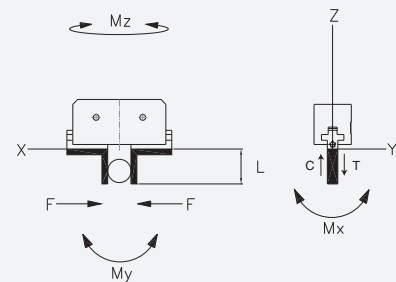
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HOLDING FORCES CHART



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

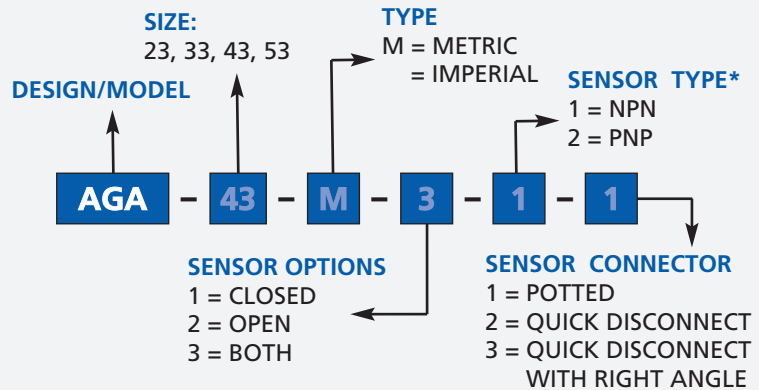
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

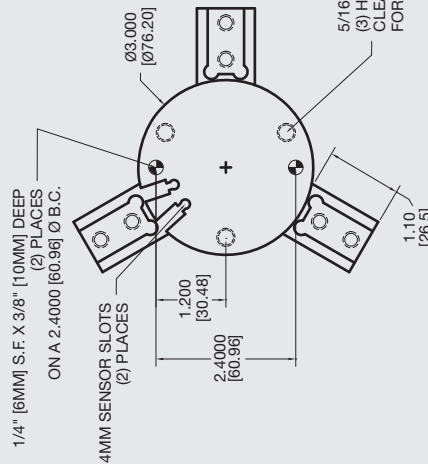
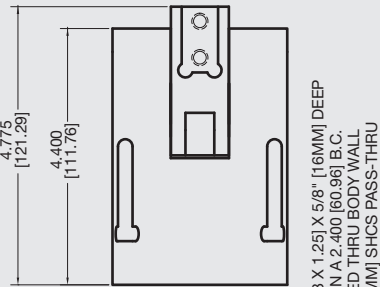
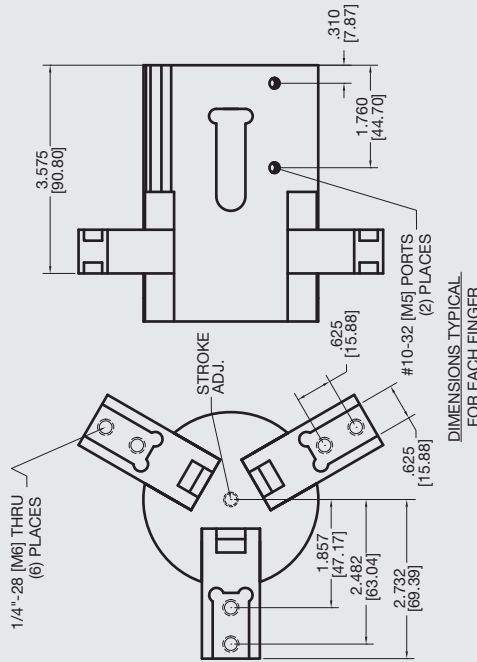
HOW TO ORDER

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 # SNQ04, SNC02, SPC02, SPQ04



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance $\pm .0005"$ [0.13mm]



Metric Threads Course Pitch

Imperial:
Inch 0.00 = ± 0.01
0.000 = ± 0.005
0.0000 = ± 0.0005

Metric: [0.] = ± 0.25
[0.0] = ± 0.13
[0.00] = ± 0.13



AGA-53 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: 200 lbs [888 N]
 Opening: 170 lbs [758 N]

Time:

Close: 0.4 sec [0.4 sec]
 Open: 0.4 sec [0.4 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:

	Static	Dynamic
Max Tensile T	1200 lbs [5330 N]	400 lbs [1780 N]
Max Compressive C	1200 lbs [5330 N]	400 lbs [1780 N]

Max Moment M_x 930 in/lb [105 Nm] 310 in/lb [35 Nm]

Max Moment M_y 880 in/lb [99.5 Nm] 276 in/lb [31.2 Nm]

Max Moment M_z 880 in/lb [99.5 Nm] 276 in/lb [31.2 Nm]

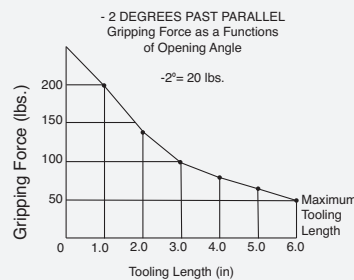
Material: High Strength, Hard Coated aluminum bronze alloys, Steel

Weight: 8 lbs [3.6 kg]

Piston Diameter: 2.25 in [57.2 mm]

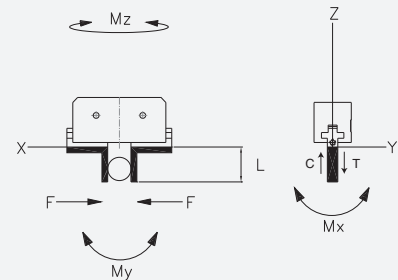
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HOLDING FORCES CHART



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

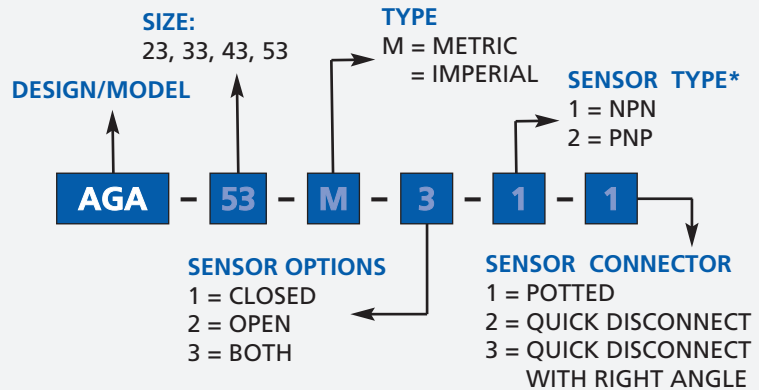
LOADING INFORMATION



LOOK! More Technical specifications for sensors on "Sensors Accessories" page.

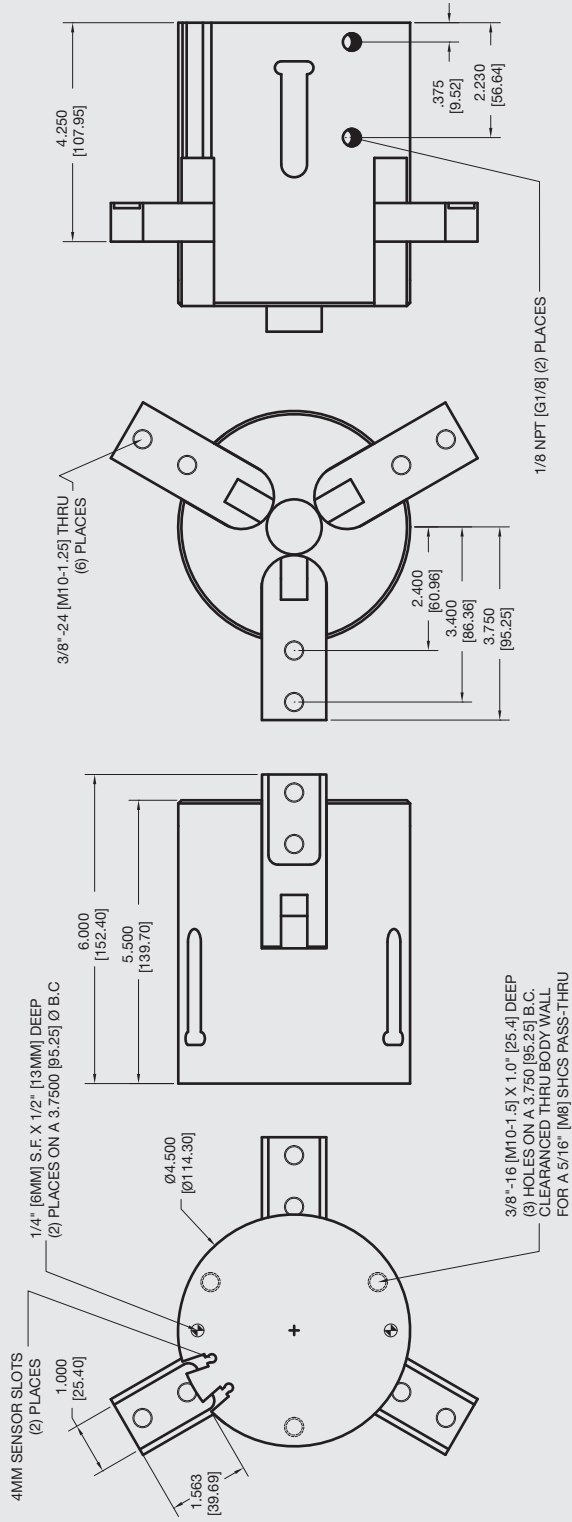
HOW TO ORDER

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 # SNQ04, SNC02, SPC02, SPQ04




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Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]



Metric Threads Course Pitch

Imperial:
Inch 0.00 = ±.01
0.000 = ±.005
0.0000 = ±.0005

Metric: [0.] = ±.25
[mm] [0.0] = ±.13
[0.00] = ±.013

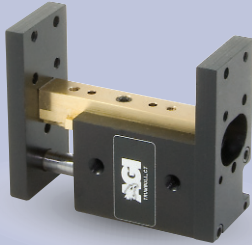




AGPS-1-1 Parallel Gripper

Single Finger, One Fixed Jaw

FEATURES AND BENEFITS



- T-Slot bearing support for the carriage and end plate offers superior load bearing performance throughout the stroke.
- Standard built-in stroke adjustment and stroke lock for precise, repetitive operation.
- Compact, lightweight unit with built-in cylinder.
- Piston seals are U-CUP type for long service life.
- Hall Effect sensors are available to monitor stroke position.
- Multiple mounting surfaces on the body and endplate with threaded and counterbored holes for easy mounting choices.
- Adjustable stroke on extend and retract.

SPECIFICATIONS

Design: Built-in air cylinder
T-slot slide

Stroke: .5 in adj [12.7 mm]

Thrust Force @ 80 PSI [5.5 BAR]

Extended: 15 lbs [66.7 N]
Retract: 13 lbs [57.8 N]

Recommended Speed: 2-12 in/sec [0.5-.3m/sec]

Pressure Range: Low/High 20-120 PSI [1.4-8 BAR]

Temperature Range: Low/High -20°/150°F [-28°/80°C]

Side Play: ± 0.001 [.03 mm]

Maximum Payload: 3 lbs [1.3 kg]

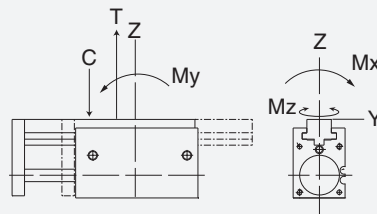
Material: High Strength, Aluminum Alloys, Bronze

Weight: 2.5 oz [70.1 g]

Piston Diameter: .50 in [12.7 mm]

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MAXIMUM FORCES & MOMENTS



	Static	Dynamic
Max Tensile T	50 lbs [222 N]	20 lbs [89 N]
Max Compressive C	50 lbs [222 N]	20 lbs [89 N]
Max Moment M_x	25 in/lb [2.8 Nm]	15 in/lb [1.7Nm]
Max Moment M_y	30 in/lb [3.4 Nm]	15 in/lb [1.7Nm]
Max Moment M_z	30 in/lb [3.4 Nm]	15 in/lb [1.7Nm]

HOW TO ORDER

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

DESIGN/MODEL

- AGPS-1-1
- AGPS-1-2
- AGPS-1-3
- AGPS-1-4

METRIC

AGPS-1-1

M

3

SENSOR TYPE

- 1 = NPN
- 2 = PNP

1

1

SENSOR OPTIONS*

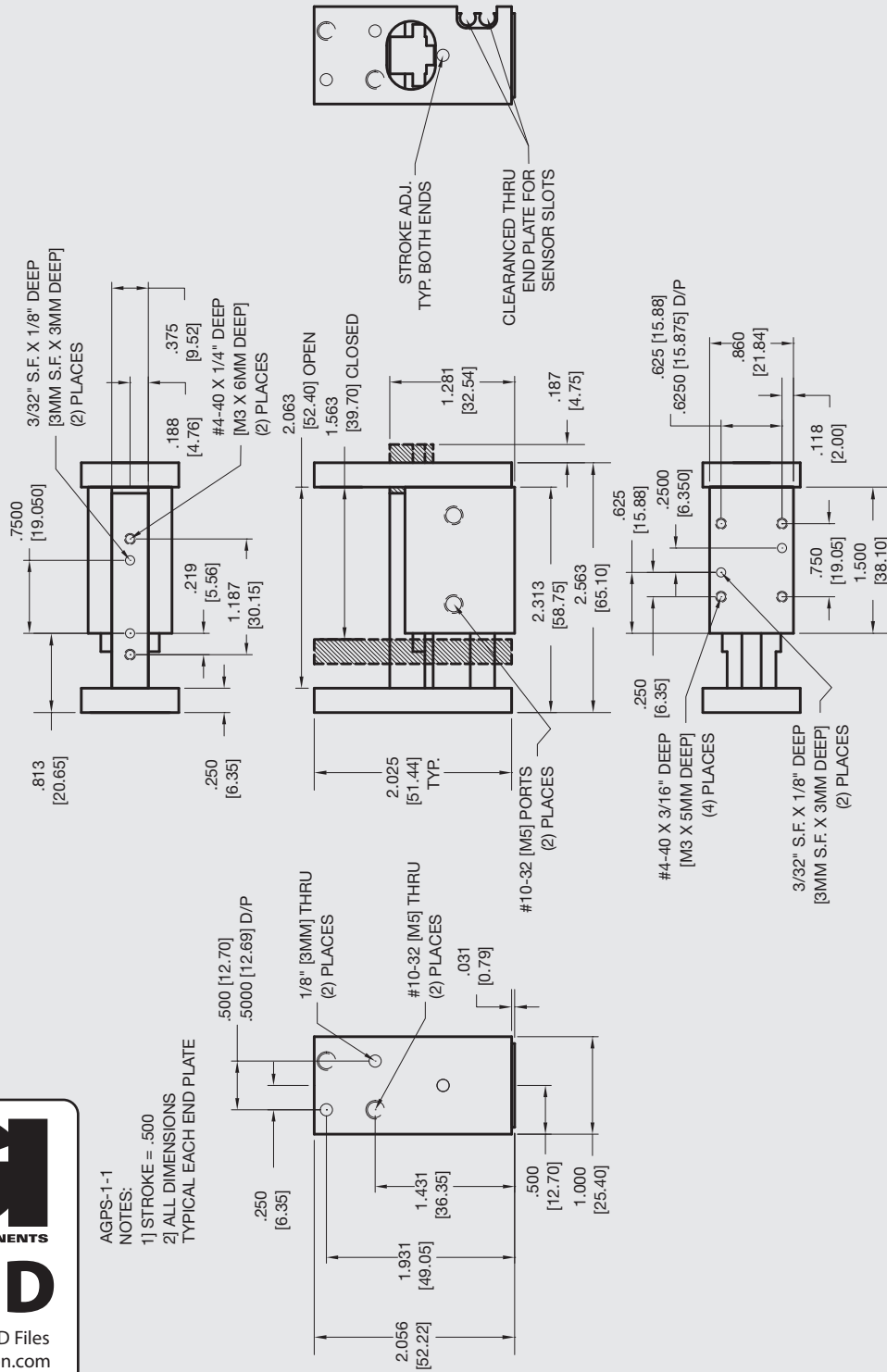
- 1 = LEFT
- 2 = RIGHT
- 3 = BOTH

SENSOR CONNECTOR

- 1 = POTTED
- 2 = QUICK DISCONNECT
- 3 = QUICK DISCONNECT WITH RIGHT ANGLE

* NOTE: Hall Effect sensors – Potted or Quick disconnect.

Sensor Part # SHN01, SHP01, SHNQ3, SHPQ3



AGPS-1-1

NOTES:

- 1] STROKE = .500
- 2] ALL DIMENSIONS TYPICAL EACH END PLATE

Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]



Metric Threads Course Pitch

Imperial: 0.00 = ±.01
Inch 0.000 = ±.005
0.0000 = ±.0005

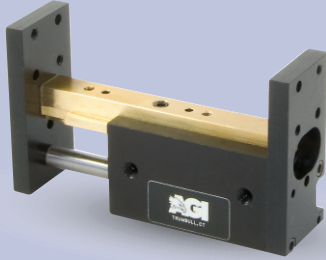
Metric: [0.] = ±.25
[0.0] = ±.13
[0.00] = ±.013



AGPS-1-2 Parallel Gripper

Single Finger, One Fixed Jaw

FEATURES AND BENEFITS



- T-Slot bearing support for the carriage and end plate offers superior load bearing performance throughout the stroke.
- Standard built-in stroke adjustment and stroke lock for precise, repetitive operation.
- Compact, lightweight unit with built-in cylinder.
- Piston seals are U-CUP type for long service life.
- Hall Effect sensors are available to monitor stroke position.
- Multiple mounting surfaces on the body and endplate with threaded and counterbored holes for easy mounting choices.
- Adjustable stroke on extend and retract.

SPECIFICATIONS

Design: Built-in air cylinder
T-slot slide

Stroke: 1 inch [25.4 mm]

Thrust Force @ 80 PSI [5.5 BAR]

Extended: 15 lbs [66.7 N]
Retract: 13 lbs [57.8 N]

Recommended Speed: 2-12 in/sec [0.5-.3m/sec]

Pressure Range: Low/High 20-120 PSI [1.4-8 BAR]

Temperature Range: Low/High -20°/150°F [-28°/80°C]

Side Play: ± 0.001 [.03 mm]

Maximum Payload: 7 lbs [3.2 kg]

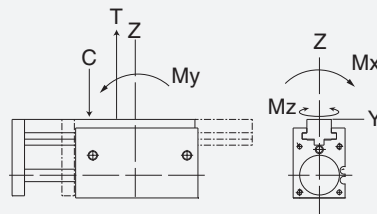
Material: High Strength, Aluminum Alloys, Bronze

Weight: 3.2 oz [90 g]

Piston Diameter: .50 in [12.7 mm]

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MAXIMUM FORCES & MOMENTS



	Static	Dynamic
Max Tensile T	75 lbs [333 N]	32 lbs [142 N]
Max Compressive C	75 lbs [333 N]	32 lbs [142 N]
Max Moment M_x	60 in/lb [6.7 Nm]	30 in/lb [3.4 Nm]
Max Moment M_y	60 in/lb [6.7 Nm]	30 in/lb [3.4 Nm]
Max Moment M_z	60 in/lb [6.7 Nm]	30 in/lb [3.4 Nm]

HOW TO ORDER

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

DESIGN/MODEL

- AGPS-1-1
- AGPS-1-2
- AGPS-1-3
- AGPS-1-4

METRIC

AGPS-1-2

SENSOR OPTIONS*

- 1 = LEFT
- 2 = RIGHT
- 3 = BOTH

SENSOR TYPE

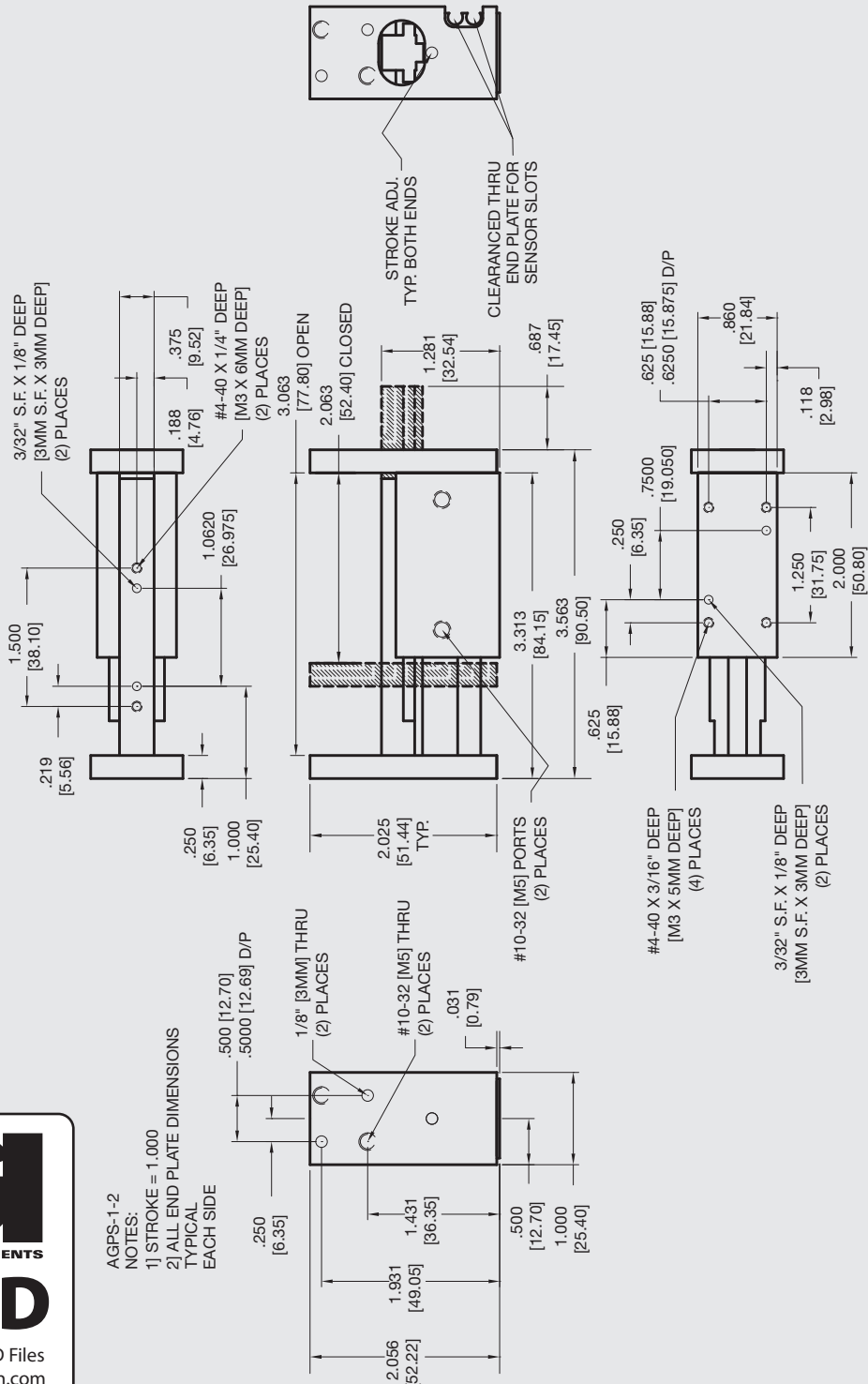
- 1 = NPN
- 2 = PNP

SENSOR CONNECTOR

- 1 = POTTED
- 2 = QUICK DISCONNECT
- 3 = QUICK DISCONNECT WITH RIGHT ANGLE


* NOTE: Hall Effect sensors – Potted or Quick disconnect.

Sensor Part # SHN01, SHP01, SHNQ3, SHPQ3



AGPS-1-2
NOTES:
1) STROKE = 1.000
2) ALL END PLATE DIMENSIONS
TYPICAL
EACH SIDE

Unless noted, all tolerances are as indicated here:

 All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]

 Metric Threads Course Pitch

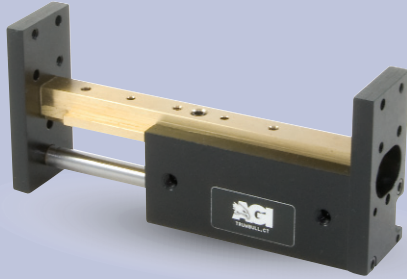
Imperial: 0.00 = ±.01
Inch 0.000 = ±.005
0.0000 = ±.0005
Metric: [0.] = ±.25
[mm] [0.0] = ±.13
[0.00] = ±.013

AGPS-1-3 Parallel Gripper

Single Finger, One Fixed Jaw

FEATURES AND BENEFITS

- T-Slot bearing support for the carriage and end plate offers superior load bearing performance throughout the stroke.
- Standard built-in stroke adjustment and stroke lock for precise, repetitive operation.
- Compact, lightweight unit with built-in cylinder.
- Piston seals are U-CUP type for long service life.
- Hall Effect sensors are available to monitor stroke position.
- Multiple mounting surfaces on the body and endplate with threaded and counterbored holes for easy mounting choices.
- Adjustable stroke on extend and retract.



SPECIFICATIONS

Design: Built-in air cylinder
T-slot slide

Stroke: 1.5 in [38.1 mm]

Thrust Force @ 80 PSI [5.5 BAR]

Extended: 15 lbs [66.7 N]
Retract: 13 lbs [57.8 N]

Recommended Speed: 2-12 in/sec [0.5-.3m/sec]

Pressure Range: Low/High 20-120 PSI [1.4-8 BAR]

Temperature Range: Low/High -20°/150°F [-28°/80°C]

Side Play: ± 0.001 [.03 mm]

Maximum Payload: 12 lbs [5.4 kg]

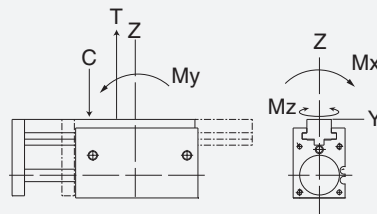
Material: High Strength, Aluminum Alloys, Bronze

Weight: 4 oz [113 g]

Piston Diameter: .50 in [12.7 mm]

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MAXIMUM FORCES & MOMENTS



	Static	Dynamic
Max Tensile T	100 lbs [444 N]	42 lbs [186 N]
Max Compressive C	100 lbs [444 N]	42 lbs [186 N]
Max Moment M_x	80 in/lb [9 Nm]	40 in/lb [4.5 Nm]
Max Moment M_y	80 in/lb [9 Nm]	40 in/lb [4.5 Nm]
Max Moment M_z	80 in/lb [9 Nm]	40 in/lb [4.5 Nm]

HOW TO ORDER

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

DESIGN/MODEL

AGPS-1-1
AGPS-1-2
AGPS-1-3
AGPS-1-4

METRIC

AGPS-1-3 M - 3 - 1 - 1

SENSOR TYPE

1 = NPN
2 = PNP

SENSOR OPTIONS*

1 = LEFT
2 = RIGHT
3 = BOTH

SENSOR CONNECTOR

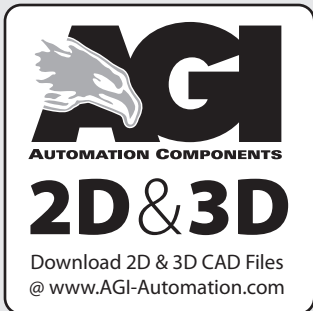
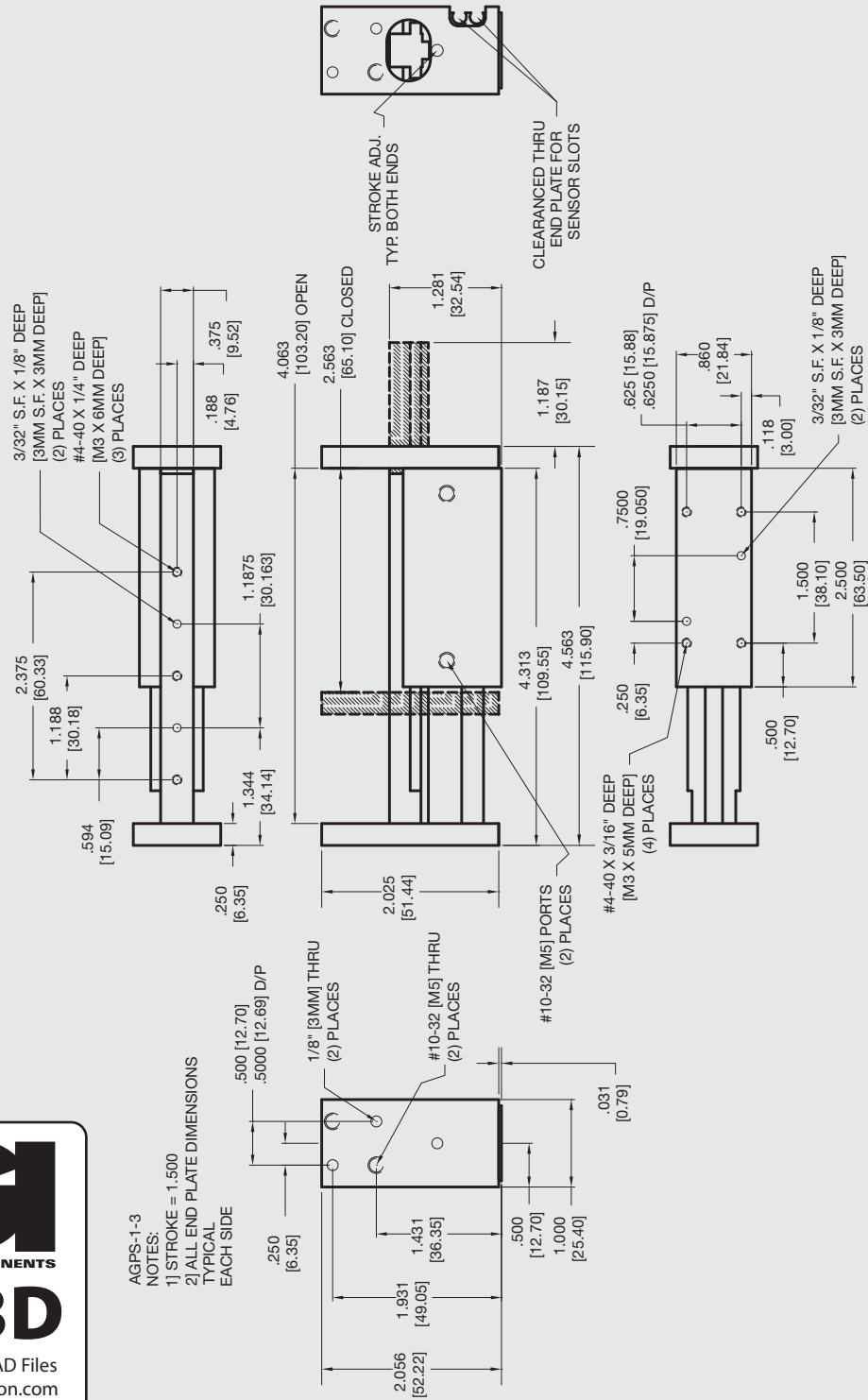
1 = POTTED
2 = QUICK DISCONNECT
3 = QUICK DISCONNECT WITH RIGHT ANGLE

* NOTE: Hall Effect sensors – Potted or Quick disconnect.

Sensor Part # SHN01, SHP01, SHNQ3, SHPQ3

AGPS-1-3 Parallel Gripper

Single Finger, One Fixed Jaw



AGPS-1-3
NOTES:
1] STROKE = 1.500
2] ALL END PLATE DIMENSIONS
TYPICAL
EACH SIDE

Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF
(Slip Fit) Locational Tolerance
± .0005" [0.13mm]



Metric Threads
Course Pitch

Imperial:
Inch 0.00 = ±0.01
0.000 = ±0.005
0.0000 = ±0.0005

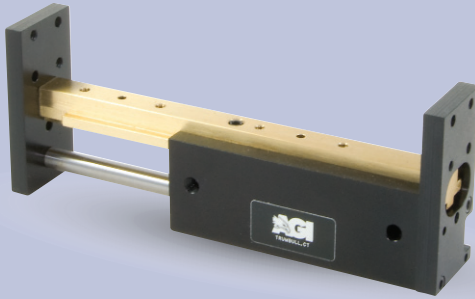
Metric:
[0.] = ±.25
[0.0] = ±.13
[0.00] = ±0.13



AGPS-1-4 Parallel Gripper

Single Finger, One Fixed Jaw

FEATURES AND BENEFITS



- T-Slot bearing support for the carriage and end plate offers superior load bearing performance throughout the stroke.
- Standard built-in stroke adjustment and stroke lock for precise, repetitive operation.
- Compact, lightweight unit with built-in cylinder.
- Piston seals are U-CUP type for long service life.
- Hall Effect sensors are available to monitor stroke position.
- Multiple mounting surfaces on the body and endplate with threaded and counterbored holes for easy mounting choices.
- Adjustable stroke on extend and retract.

SPECIFICATIONS

Design: Built-in air cylinder
T-slot slide

Stroke: 2.0 in [50.8 mm]

Thrust Force @ 80 PSI [5.5 BAR]

Extended: 15 lbs [66.7 N]
Retract: 13 lbs [57.8 N]

Recommended Speed: 2-12 in/sec [0.5-.3m/sec]

Pressure Range: Low/High 20-120 PSI [1.4-8 BAR]

Temperature Range: Low/High -20°/150°F [-28°/80°C]

Side Play: ± 0.001 [.03 mm]

Maximum Payload: 18 lbs [81.6 kg]

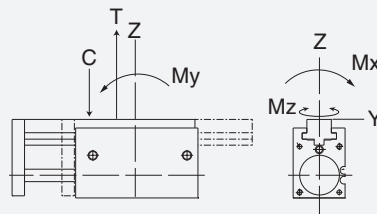
Material: High Strength, Aluminum Alloys, Bronze

Weight: 5 oz [142 g]

Piston Diameter: .50 in [12.7 mm]

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MAXIMUM FORCES & MOMENTS



	Static	Dynamic
Max Tensile T	130 lbs [578 N]	55 lbs [244 N]
Max Compressive C	130 lbs [578 N]	55 lbs [244 N]
Max Moment M_x	110 in/lb [12.5 Nm]	50 in/lb [6.7 Nm]
Max Moment M_y	110 in/lb [12.5 Nm]	50 in/lb [6.7 Nm]
Max Moment M_z	110 in/lb [12.5 Nm]	50 in/lb [6.7 Nm]

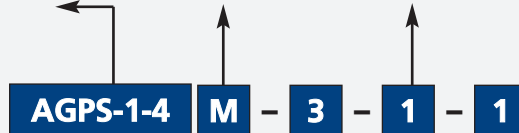
HOW TO ORDER

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

DESIGN/MODEL

- AGPS-1-1
- AGPS-1-2
- AGPS-1-3
- AGPS-1-4

METRIC



SENSOR OPTIONS*

- 1 = LEFT
- 2 = RIGHT
- 3 = BOTH

SENSOR TYPE

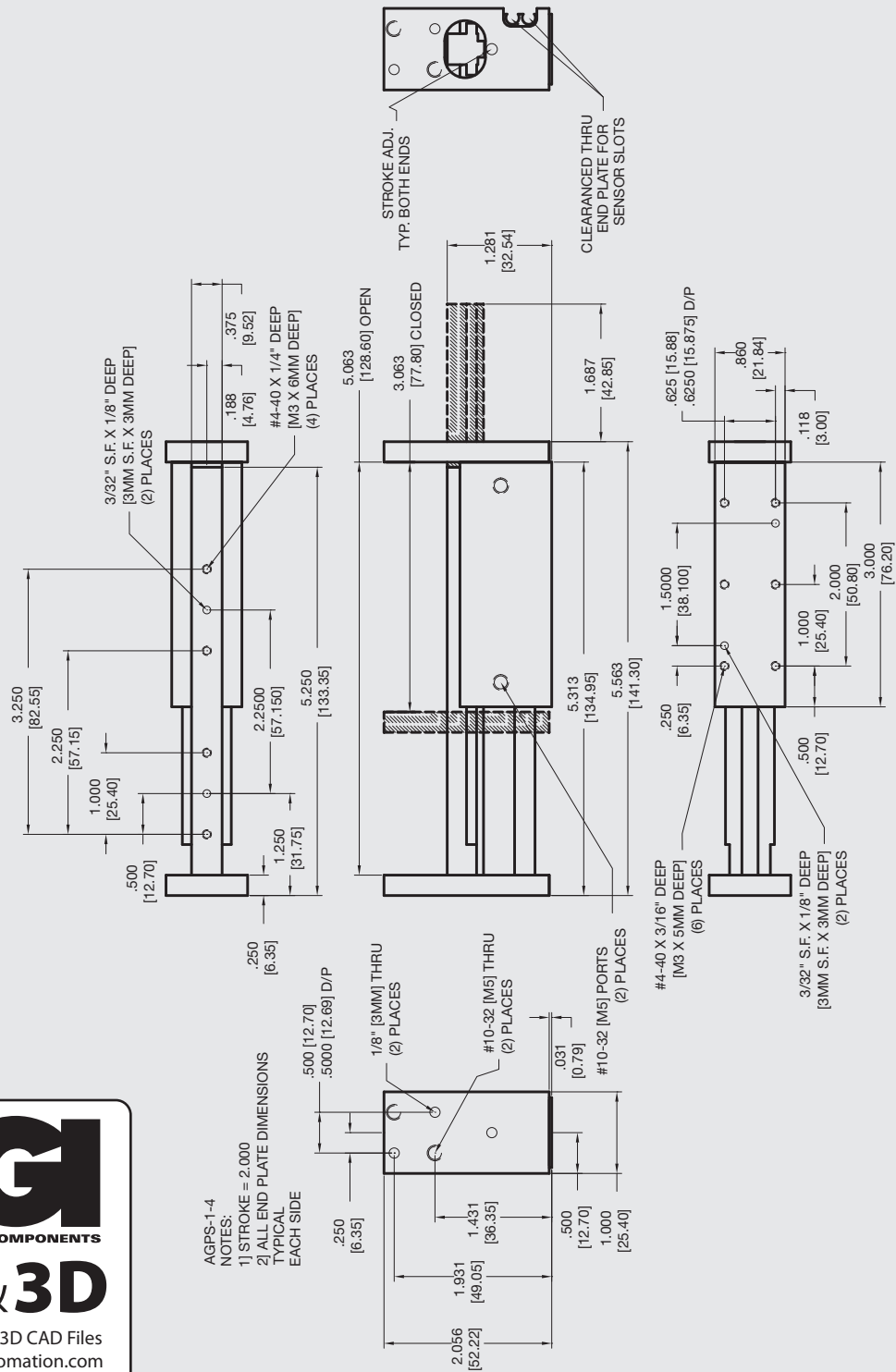
- 1 = NPN
- 2 = PNP

SENSOR CONNECTOR

- 1 = POTTED
- 2 = QUICK DISCONNECT
- 3 = QUICK DISCONNECT WITH RIGHT ANGLE

* NOTE: Hall Effect sensors – Potted or Quick disconnect.

Sensor Part # SHN01, SHP01, SHNQ3, SHPQ3




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@ www.AGI-Automation.com

AGPS-1-4
NOTES:

- 1) STROKE = 2.000
- 2) ALL END PLATE DIMENSIONS TYPICAL EACH SIDE

Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]



Metric Threads Course Pitch

Imperial: 0.00 = ±.01
Inch 0.000 = ±.005
0.0000 = ±.0005

Metric: [0.] = ±.25
[0.0] = ±.13
[0.00] = ±.013



AGPS-2-1 Parallel Gripper

Single Finger, One Fixed Jaw

FEATURES AND BENEFITS



- T-Slot bearing support for the carriage and end plate offers superior load bearing performance throughout the stroke.
- Standard built-in stroke adjustment and stroke lock for precise, repetitive operation.
- Compact, lightweight unit with built-in cylinder.
- Piston seals are U-CUP type for long service life.
- Hall Effect sensors are available to monitor stroke position.
- Multiple mounting surfaces on the body and endplate with threaded and counterbored holes for easy mounting choices.
- Adjustable stroke on extend and retract.

SPECIFICATIONS

Design: Built-in air cylinder
T-slot slide

Stroke: 0.5 in [12.7 mm]

Thrust Force @ 80 PSI [5.5 BAR]

Extended: 35 lbs [155 N]
Retract: 33 lbs [146 N]

Recommended Speed: 2-12 in/sec [0.5-.3m/sec]

Pressure Range: Low/High 20-120 PSI [1.4-8 BAR]

Temperature Range: Low/High -20°/150°F [-28°/80°C]

Side Play: ± 0.001 [.03 mm]

Maximum Payload: 7 lbs [3.2 kg]

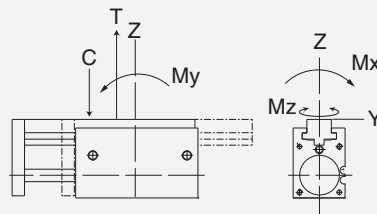
Material: High Strength, Aluminum Alloys, Bronze

Weight: 4.2 oz [120 g]

Piston Diameter: .750 in [19 mm]

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MAXIMUM FORCES & MOMENTS



	Static	Dynamic
Max Tensile T	80 lbs [355 N]	34 lbs [151 N]
Max Compressive C	80 lbs [355 N]	34 lbs [151 N]
Max Moment M_x	35 in/lb [3.9 Nm]	19 in/lb [2.2 Nm]
Max Moment M_y	35 in/lb [3.9 Nm]	19 in/lb [2.2 Nm]
Max Moment M_z	35 in/lb [3.9 Nm]	19 in/lb [2.2 Nm]

HOW TO ORDER

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

DESIGN/MODEL

- AGPS-2-1
- AGPS-2-2
- AGPS-2-3
- AGPS-2-4

METRIC

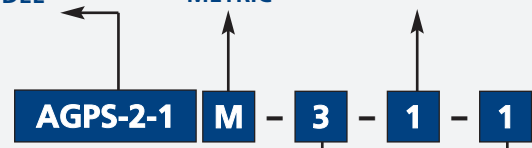
AGPS-2-1

- SENSOR OPTIONS***
- 1 = LEFT
 - 2 = RIGHT
 - 3 = BOTH

SENSOR TYPE

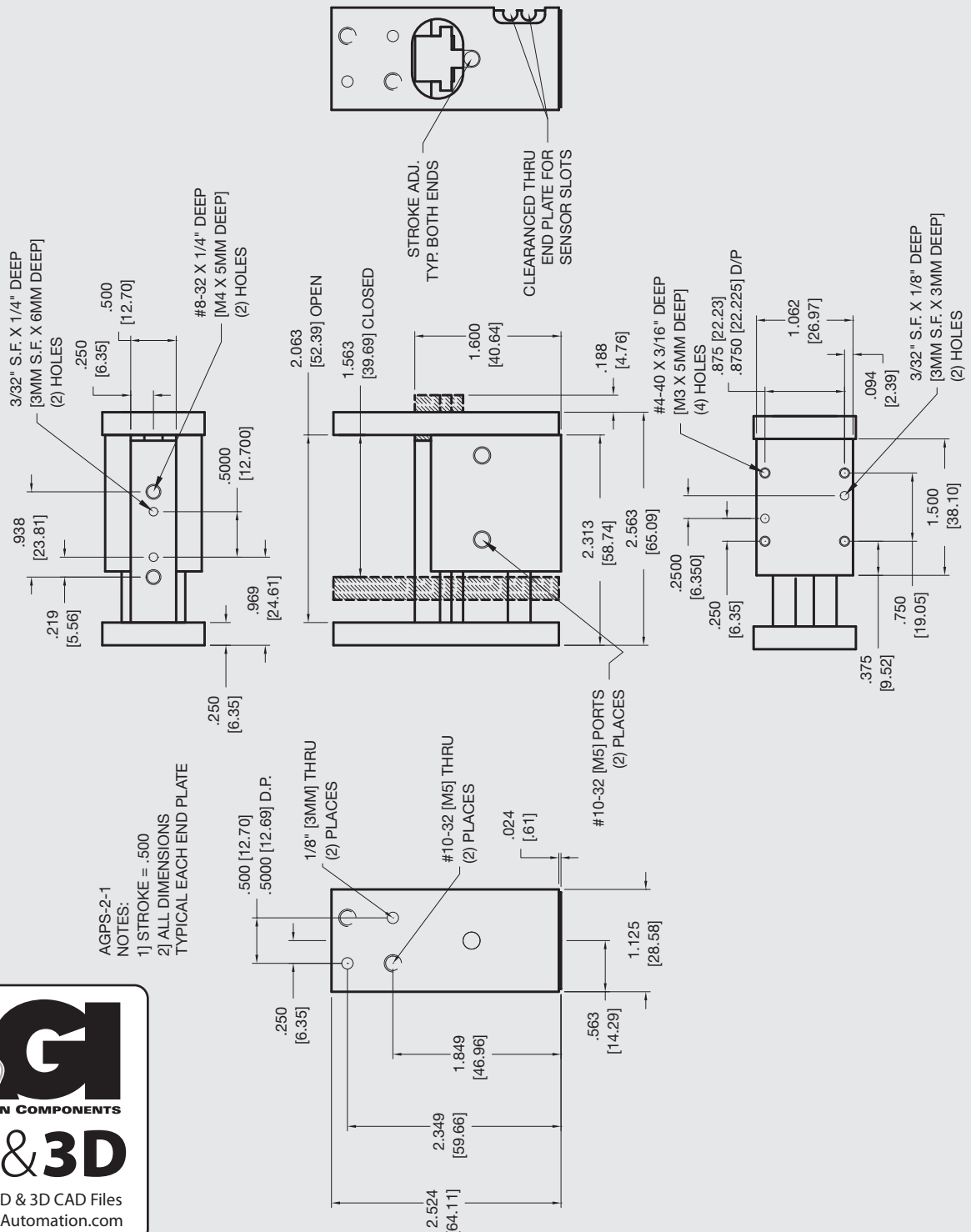
- 1 = NPN
- 2 = PNP

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



* NOTE: Hall Effect sensors are hard wired with 20" pigtail.

Sensor Part # SHN01, SHP01, SHNQ3, SHPQ3



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]



Metric Threads Course Pitch

Imperial:
 Inch 0.00 = ±.01
 0.000 = ±.005
 0.0000 = ±.0005

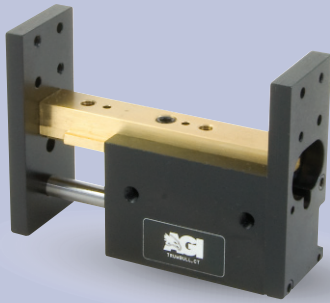
Metric:
 [0.] = ±.25
 [0.0] = ±.13
 [0.00] = ±.013



AGPS-2-2 Parallel Gripper

Single Finger, One Fixed Jaw

FEATURES AND BENEFITS



- T-Slot bearing support for the carriage and end plate offers superior load bearing performance throughout the stroke.
- Standard built-in stroke adjustment and stroke lock for precise, repetitive operation.
- Compact, lightweight unit with built-in cylinder.
- Piston seals are U-CUP type for long service life.
- Hall Effect sensors are available to monitor stroke position.
- Multiple mounting surfaces on the body and endplate with threaded and counterbored holes for easy mounting choices.
- Adjustable stroke on extend and retract.

SPECIFICATIONS

Design: Built-in air cylinder
T-slot slide

Stroke: 1 in [25.4 mm]

Thrust Force @ 80 PSI [5.5 BAR]

Extended: 35 lbs [155 N]
Retract: 33 lbs [146 N]

Recommended Speed: 2-12 in/sec [0.5-.3m/sec]

Pressure Range: Low/High 20-120 PSI [1.4-8 BAR]

Temperature Range: Low/High -20°/150°F [-28°/80°C]

Side Play: ± 0.001 [.03 mm]

Maximum Payload: 13 lbs [5.9 kg]

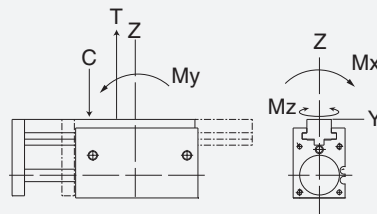
Material: High Strength, Aluminum Alloys, Bronze

Weight: 5.6 oz [160 g]

Piston Diameter: .750 in [19 mm]

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MAXIMUM FORCES & MOMENTS



	Static	Dynamic
Max Tensile T	140 lbs [622 N]	60 lbs [266 N]
Max Compressive C	140 lbs [622 N]	60 lbs [266 N]
Max Moment M_x	70 in/lb [8 Nm]	30 in/lb [3.4 Nm]
Max Moment M_y	70 in/lb [8 Nm]	30 in/lb [3.4 Nm]
Max Moment M_z	70 in/lb [8 Nm]	30 in/lb [3.4 Nm]

HOW TO ORDER

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

DESIGN/MODEL

- AGPS-2-1
- AGPS-2-2
- AGPS-2-3
- AGPS-2-4

METRIC

AGPS-2-2

SENSOR OPTIONS*

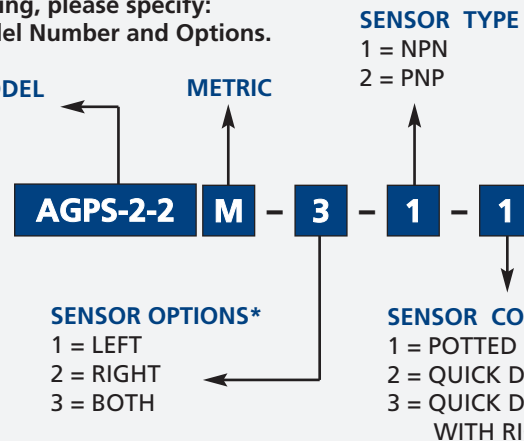
- 1 = LEFT
- 2 = RIGHT
- 3 = BOTH

SENSOR TYPE

- 1 = NPN
- 2 = PNP

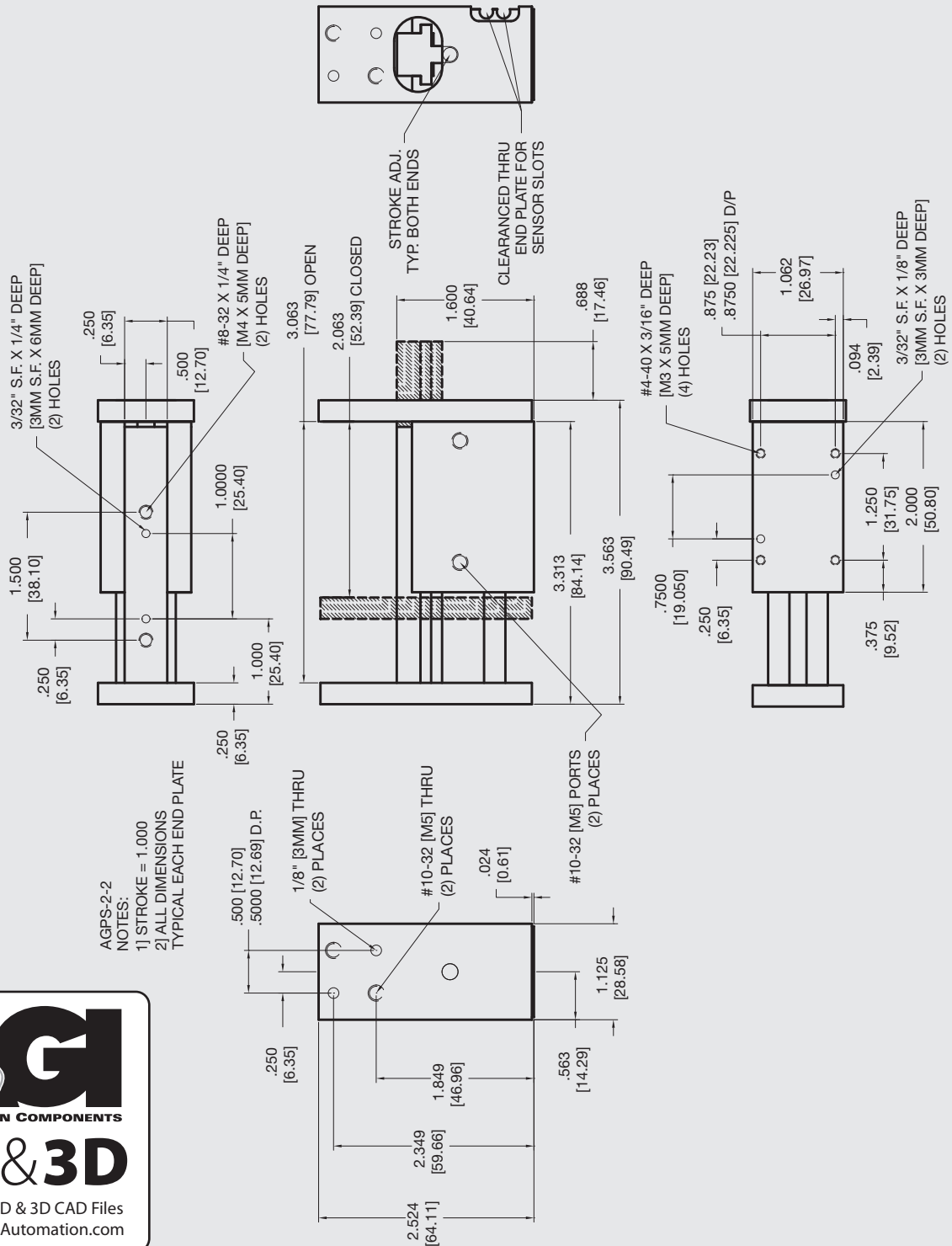
SENSOR CONNECTOR

- 1 = POTTED
- 2 = QUICK DISCONNECT
- 3 = QUICK DISCONNECT WITH RIGHT ANGLE



* NOTE: Hall Effect sensors are hard wired with 20" pigtail.

Sensor Part # SHN01, SHP01, SHNQ3, SHPQ3



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]



Metric Threads Course Pitch

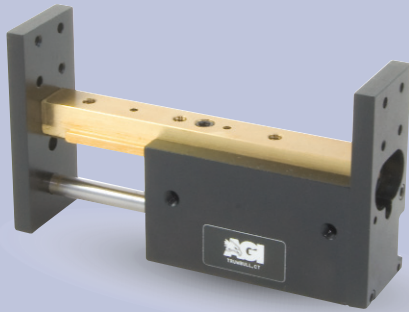
Imperial: 0.00 = ±.01
 Inch 0.000 = ±.005
 0.0000 = ±.0005

Metric: [0.] = ±.25
 [mm] [0.0] = ±.13
 [0.00] = ±.013



AGPS-2-3 Parallel Gripper

Single Finger, One Fixed Jaw



FEATURES AND BENEFITS

- T-Slot bearing support for the carriage and end plate offers superior load bearing performance throughout the stroke.
- Standard built-in stroke adjustment and stroke lock for precise, repetitive operation.
- Compact, lightweight unit with built-in cylinder.
- Piston seals are U-CUP type for long service life.
- Hall Effect sensors are available to monitor stroke position.
- Multiple mounting surfaces on the body and endplate with threaded and counterbored holes for easy mounting choices.
- Adjustable stroke on extend and retract.

SPECIFICATIONS

Design: Built-in air cylinder
T-slot slide

Stroke: 1.5 in [38.1 mm]

Thrust Force @ 80 PSI [5.5 BAR]

Extended: 35 lbs [155 N]
Retract: 33 lbs [146 N]

Recommended Speed: 2-12 in/sec [0.5-.3m/sec]

Pressure Range: Low/High 20-120 PSI [1.4-8 BAR]

Temperature Range: Low/High -20°/150°F [-28°/80°C]

Side Play: ± 0.001 [.03 mm]

Maximum Payload: 24 lbs [10.8 kg]

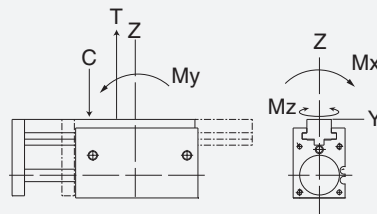
Material: High Strength, Aluminum Alloys, Bronze

Weight: 6.8 oz [193 g]

Piston Diameter: .750 in [19 mm]

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MAXIMUM FORCES & MOMENTS



	Static	Dynamic
Max Tensile T	180 lbs [800 N]	77 lbs [342 N]
Max Compressive C	180 lbs [800 N]	77 lbs [342 N]
Max Moment M_x	70 in/lb [8 Nm]	34 in/lb [3.8 Nm]
Max Moment M_y	70 in/lb [8 Nm]	34 in/lb [3.8 Nm]
Max Moment M_z	70 in/lb [8 Nm]	34 in/lb [3.8 Nm]

HOW TO ORDER

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

DESIGN/MODEL

- AGPS-2-1
- AGPS-2-2
- AGPS-2-3
- AGPS-2-4

METRIC

AGPS-2-3

SENSOR TYPE

- 1 = NPN
- 2 = PNP

M - 3 - 1 - 1

SENSOR OPTIONS*

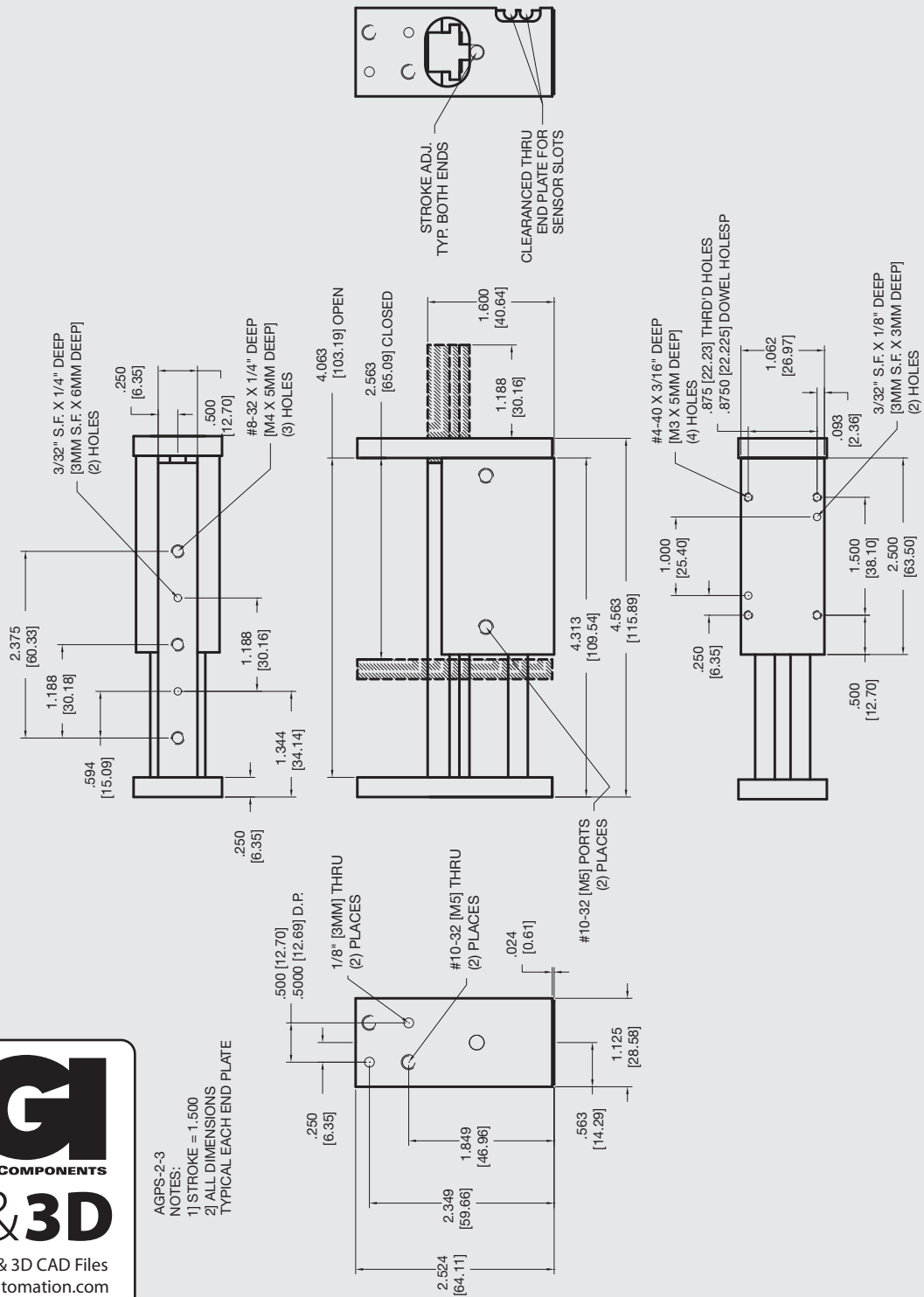
- 1 = LEFT
- 2 = RIGHT
- 3 = BOTH

SENSOR CONNECTOR

- 1 = POTTED
- 2 = QUICK DISCONNECT
- 3 = QUICK DISCONNECT WITH RIGHT ANGLE

* NOTE: Hall Effect sensors are hard wired with 20" pigtail.

Sensor Part # SHN01, SHP01, SHNQ3, SHPQ3



Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]



Metric Threads Course Pitch

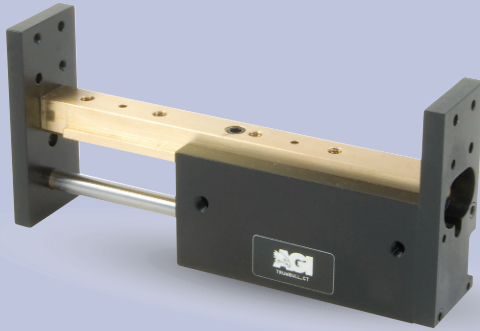
Imperial: 0.00 = ±.01
Inch 0.000 = ±.005
0.0000 = ±.0005

Metric: [0.] = ±.25
[mm] [0.0] = ±.13
[0.00] = ±.013



AGPS-2-4 Parallel Gripper

Single Finger, One Fixed Jaw



FEATURES AND BENEFITS

- T-Slot bearing support for the carriage and end plate offers superior load bearing performance throughout the stroke.
- Standard built-in stroke adjustment and stroke lock for precise, repetitive operation.
- Compact, lightweight unit with built-in cylinder.
- Piston seals are U-CUP type for long service life.
- Standard built-in stroke adjustment and stroke lock for precise, repetitive operation.
- Hall Effect sensors are available to monitor stroke position.
- Multiple mounting surfaces on the body and endplate with threaded and counterbored holes for easy mounting choices.
- Adjustable stroke on extend and retract.

SPECIFICATIONS

Design: Built-in air cylinder
T-slot slide

Stroke: 2 in [50.8 mm]

Thrust Force @ 80 PSI [5.5 BAR]

Extended: 35 lbs [155 N]
Retract: 33 lbs [146 N]

Recommended Speed: 2-12 in/sec [0.5-.3m/sec]

Pressure Range: Low/High 20-120 PSI [1.4-8 BAR]

Temperature Range: Low/High -20°/150°F [-28°/80°C]

Side Play: ± 0.001 [0.03 mm]

Maximum Payload: 30 lbs [13.6 kg]

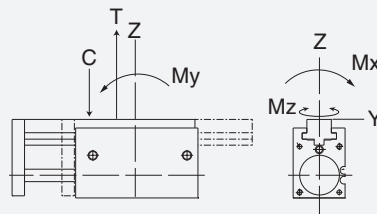
Material: High Strength, Aluminum Alloys, Bronze

Weight: 8.4 oz [240 g]

Piston Diameter: .750 in [19 mm]

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MAXIMUM FORCES & MOMENTS



	Static	Dynamic
Max Tensile T	250 lbs [1112 N]	108 lbs [800 N]
Max Compressive C	250 lbs [1112 N]	108 lbs [800 N]
Max Moment M_x	120 in/lb [8 Nm]	62 in/lb [7 Nm]
Max Moment M_y	120 in/lb [8 Nm]	62 in/lb [7 Nm]
Max Moment M_z	120 in/lb [8 Nm]	62 in/lb [7 Nm]

HOW TO ORDER

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

DESIGN/MODEL

- AGPS-2-1
- AGPS-2-2
- AGPS-2-3
- AGPS-2-4

METRIC

AGPS-2-4

SENSOR TYPE

- 1 = NPN
- 2 = PNP

M - 3 - 1 - 1

SENSOR OPTIONS*

- 1 = LEFT
- 2 = RIGHT
- 3 = BOTH

SENSOR CONNECTOR

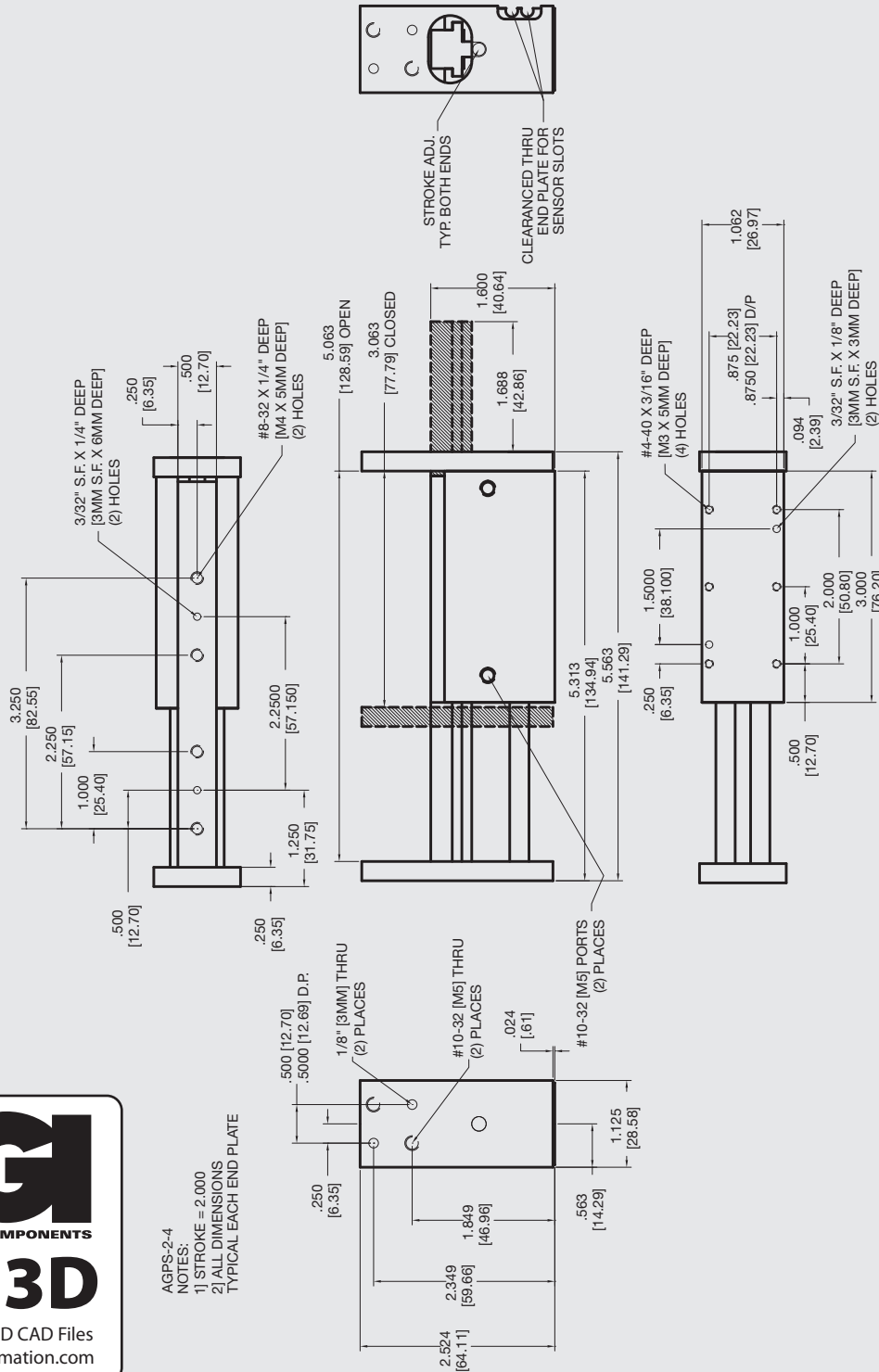
- 1 = POTTED
- 2 = QUICK DISCONNECT
- 3 = QUICK DISCONNECT WITH RIGHT ANGLE

* NOTE: Hall Effect sensors are hard wired with 20" pigtail.

Sensor Part # SHN01, SHP01, SHNQ3, SHPQ3

AGPS-2-4 Parallel Gripper

Single Finger, One Fixed Jaw




AGI
AUTOMATION COMPONENTS
2D & 3D

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

AGPS-2-4
NOTES:
1) STROKE = 2.000
2) ALL DIMENSIONS
TYPICAL EACH END PLATE

Unless noted, all tolerances are as indicated here:



All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [0.13mm]



Metric Threads Course Pitch

Imperial:
Inch 0.00 = ±.01
0.000 = ±.005
0.0000 = ±.0005

Metric:
[0.] = ±.25
[0.0] = ±.13
[0.00] = ±.013