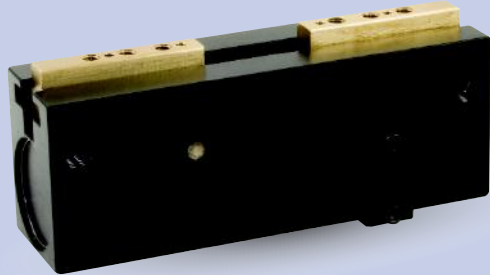# AGLP-4 Parallel Gripper
T-Slot Bearing Series, Low Profile

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
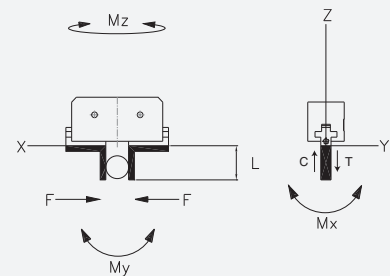
Weight:	5 oz	[142 g]
Piston Diameter:	0.700 in	[17.7 mm]

January 2009 - PATENTED   Made in the USA

HOLDING FORCES CHART

WARNING! DO NOT EXCEED MAXIMUM EFFECTIVE FINGER LENGTHS
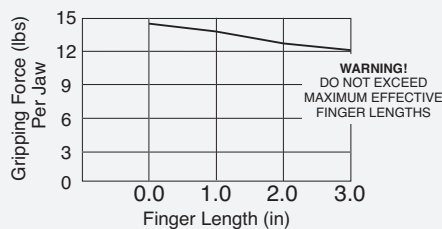
WARNING! Do not exceed tooling jaw length. See Chart above.
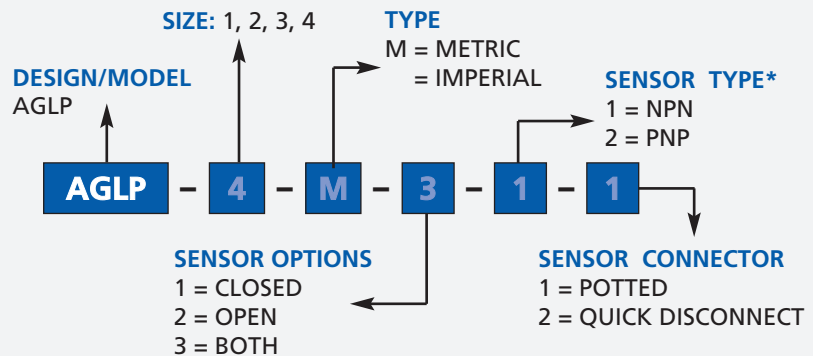
LOADING INFORMATION

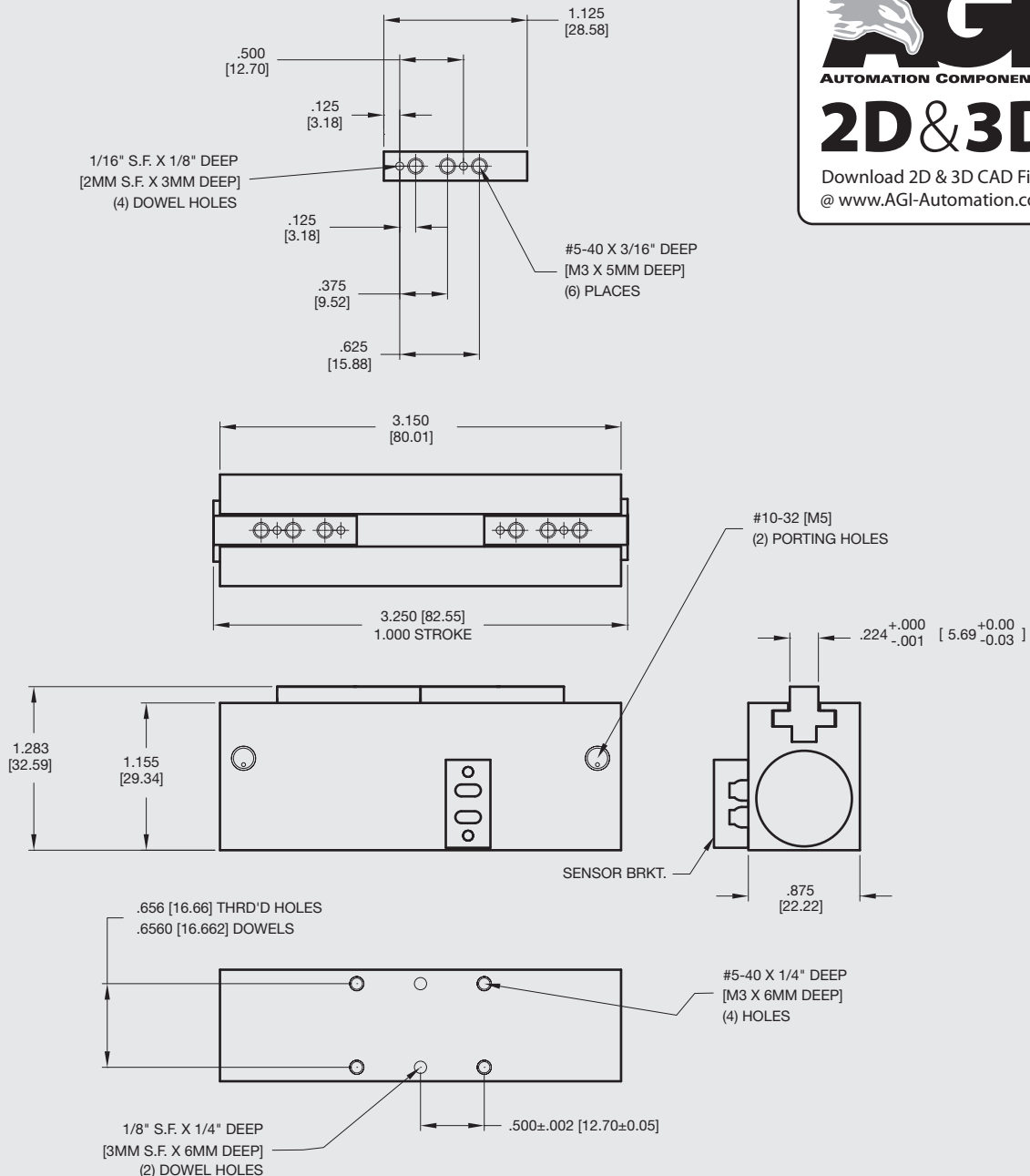**LOOK!** More Technical specifications for sensors on "Sensors Accessories" page.

HOW TO ORDER

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

SIZE: 1, 2, 3, 4

TYPE
M = METRIC
= IMPERIAL

DESIGN/MODEL
AGLP

SENSOR TYPE*
1 = NPN
2 = PNP

AGLP	–	4	–	M	–	3	–	1	–	1

SENSOR OPTIONS
1 = CLOSED
2 = OPEN
3 = BOTH

SENSOR CONNECTOR
1 = POTTED
2 = QUICK DISCONNECT

* 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

AUTOMATION COMPONENTS

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

1.125
[28.58]

.500
[12.70]

.125
[3.18]

1/16" S.F. X 1/8" DEEP
[2MM S.F. X 3MM DEEP]
(4) DOWEL HOLES

.125
[3.18]

#5-40 X 3/16" DEEP
[M3 X 5MM DEEP]
(6) PLACES

.375
[9.52]

.625
[15.88]

3.150
[80.01]

#10-32 [M5]
(2) PORTING HOLES

3.250 [82.55]
1.000 STROKE

$.224^{+.000}_{-.001}$ [$5.69^{+0.00}_{-0.03}$]

1.283
[32.59]

1.155
[29.34]

SENSOR BRKT.

.875
[22.22]

.656 [16.66] THRD'D HOLES
.6560 [16.662] DOWELS

#5-40 X 1/4" DEEP
[M3 X 6MM DEEP]
(4) HOLES

1/8" S.F. X 1/4" DEEP
[3MM S.F. X 6MM DEEP]
(2) DOWEL HOLES

.500±.002 [12.70±0.05]