



AGT-3 Powered Slide Linear Thruster



FEATURES AND BENEFITS

- Floating piston rod coupling eliminates cylinder binding.
- Compact, lightweight unit with replaceable air-cylinder.
- Units are permanently lubricated.
- Optional stroke adjustment for precise, repetitive operation.
- Proximity switches are available to monitor end of stroke position of the body.
- Optional shock absorbers can be ordered for smooth operation.
- Aluminum body end blocks contain taped holes and dowel pin holes for precision mounting or fixturing.
- Standard end plate to stop shaft vibrations.

SPECIFICATIONS

Design: Replaceable air cylinder, linear bearings on steel hardened shafts

Stroke: 6 in max. (1" increments)
[152 mm] [25.4 mm]

Thrust Force @ 80 PSI [5.5 BAR]

30 lbs (multiply force factor by input pressure in PSI)

Extended: 44 lbs [196 N]

Retract: 39 lbs [174 N]

Recommended Speed:

1-40 in/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]

Deflection: See Chart

Maximum Payload: 10 lbs [4.5 kg]

Material: High Strength, Aluminum Alloys, Steel Components

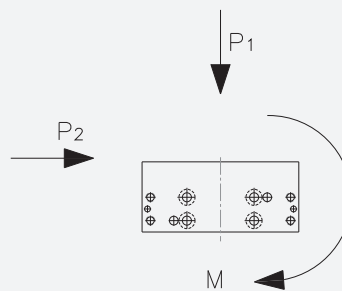
Weight: 1.50 lbs + 2 oz/in
[.7 kg + 1.4 g/mm]

Shaft Diameter: 3/8 in [9.5 mm]

Piston Diameter: 3/4 in [19 mm]

January 2009 - PATENTED Made in the USA

PAYLOAD FORCES

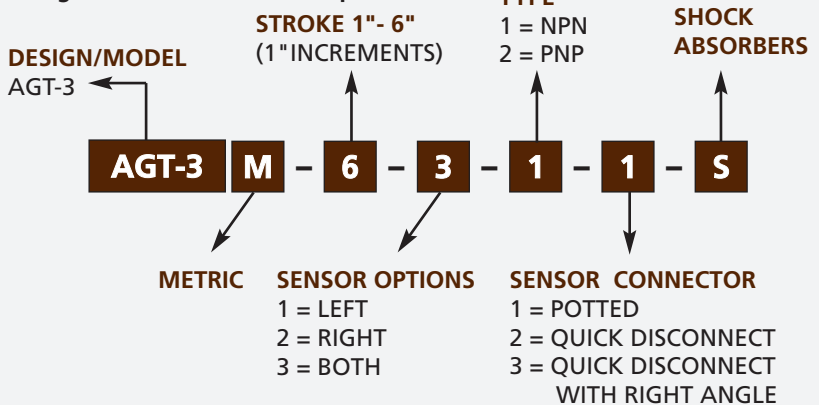


WARNING! Do not exceed mounting screw depth.

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

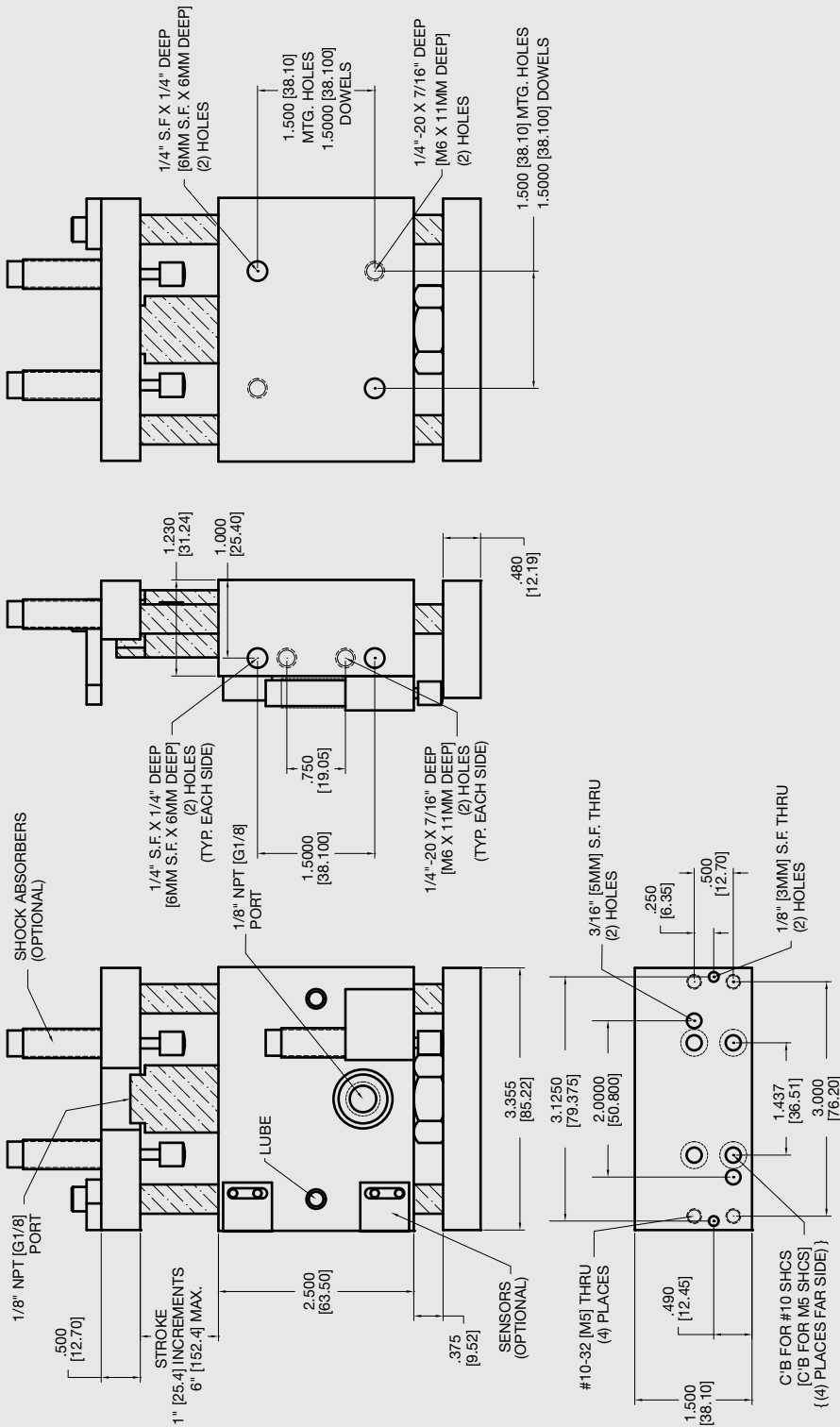
HOW TO ORDER

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



* NOTE: Proximity sensors are 8 mm diam., 12-30 VDC, 50 mA and come with 2 meter cable.

Sensor Part # SNC08, SNQ08, SPC08, SPQ08



PAYLOAD DATA

Stroke Length	Maximum Load (lbs)	Maximum Moments (in-lbs)	Maximum Deflection	
			P1	P2
1 [25.4 mm]	10 [4.5 kg]	28 [3.2 Nm]	.001 [.03 mm]	.001 [.03 mm]
2 [50.8 mm]	10 [4.5 kg]	22 [2.5 Nm]	.001 [.03 mm]	.001 [.03 mm]
3 [76.2 mm]	10 [4.5 kg]	18 [2.1 Nm]	.002 [.05 mm]	.002 [.05 mm]
4 [101.6 mm]	10 [4.5 kg]	15 [1.7 Nm]	.005 [.13 mm]	.004 [.10 mm]
5 [127.0 mm]	10 [4.5 kg]	13 [1.5 Nm]	.009 [.23 mm]	.006 [.15 mm]
6 [152.4 mm]	10 [4.5 kg]	11 [1.3 Nm]	.012 [.3 mm]	.010 [.25 mm]



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] = $\pm .013$