



# AGT-4 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:** 8 in max. (1" increments)  
[203 mm] [25.4 mm]

**Thrust Force @ 80 PSI [5.5 BAR]**  
70 lbs (multiply force factor by input pressure in PSI)

**Extended:** 88 lbs [392 N]

**Retract:** 81 lbs [360 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 [0.03 mm]

**Deflection:** See Chart

**Maximum Payload:** 25 lbs [11.3 kg]

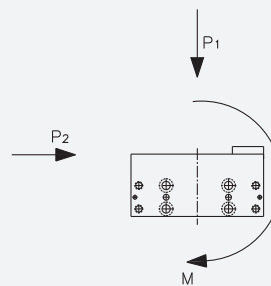
**Material:** High Strength, Aluminum Alloys, Steel Components

**Weight:** 3.75 lbs + 3 oz/in  
[1.7 kg + 2.6 g/mm]

**Shaft Diameter:** 1/2 in [12.7 mm]

**Piston Diameter:** 1 1/16 in [27 mm]

### PAYLOAD FORCES

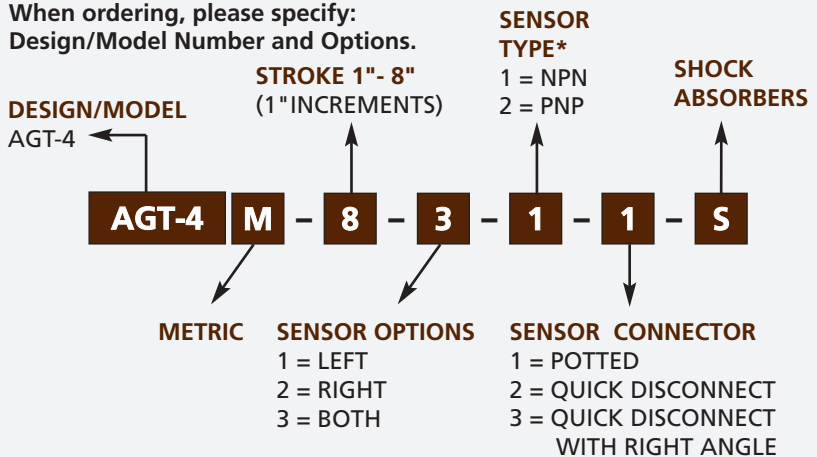


**WARNING!** Do not exceed mounting screw depth.

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

### HOW TO ORDER

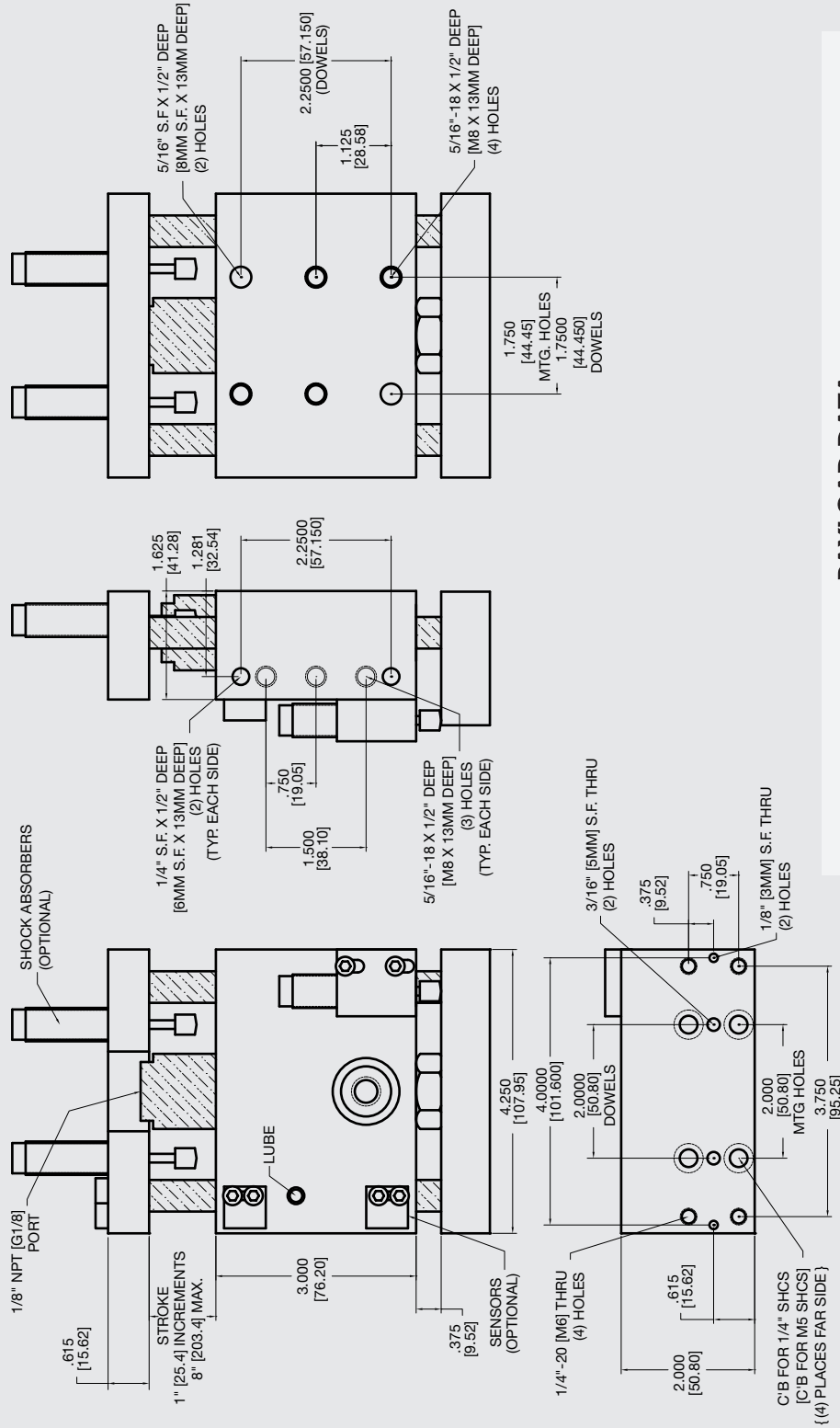
When ordering, please specify:  
Design/Model Number and Options.



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

Sensor Part # SNC08, SNQ08, SPC08, SPQ08

January 2009 - PATENTED Made in the USA



### PAYLOAD DATA

Stroke Length	Maximum Load (lbs)	Maximum Moments (in-lbs)	Maximum Deflection P1	Maximum Deflection P2
1 [25.4 mm]	25 [11.3 kg]	95 [10.7 Nm]	.001 [.03 mm]	.001 [.03 mm]
2 [50.8 mm]	25 [11.3 kg]	75 [8.5 Nm]	.002 [.05 mm]	.002 [.05 mm]
3 [76.2 mm]	25 [11.3 kg]	60 [6.7 Nm]	.004 [.10 mm]	.003 [.07 mm]
4 [101.6 mm]	25 [11.3 kg]	53 [6 Nm]	.006 [.15 mm]	.005 [.13 mm]
5 [127.0 mm]	25 [11.3 kg]	46 [5.2 Nm]	.008 [.20 mm]	.007 [.17 mm]
6 [152.4 mm]	25 [11.3 kg]	40 [4.5 Nm]	.014 [.35 mm]	.011 [.28 mm]
7 [XXX mm]	25 [11.3 kg]	36 [4 Nm]	.018 [.45 mm]	.016 [.40 mm]
8 [XXX mm]	25 [11.3 kg]	33 [3.7 Nm]	.022 [.55 mm]	.018 [.45 mm]



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] =  $\pm .013$