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.


HOW TO ORDER

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

DESIGN/MODEL
AGT-4

STROKE 1”- 8” (1” INCREMENTS)

SENSOR OPTIONS
1 = LEFT
2 = RIGHT
3 = BOTH

SENSOR TYPE
1 = NPN
2 = PNP

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

TYPE
M = METRIC
= IMPERIAL

SENSOR CONNECTOR
1 = LEFT
2 = RIGHT
3 = BOTH

* 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
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: 0.00 = ±0.01
  - Inch 0.000 = ±0.005
  - 0.0000 = ±0.0005
- Metric:
  - 0. = ±0.25
  - [mm] 0. = ±0.13
  - [0.00] = ±0.013

**STROKE**

- 1" [25.4] INCREMENTS
- 8" [203.2] MAX.

**PAYLOAD DATA**

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

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