AGE-1 Feed Escapement
Built-in Air Cylinder

FEATURES AND BENEFITS
• Compact, Long Stroke Escapements made for separating and isolating individual parts from tracks, vibratory feeders or conveyors.
• Internal sequencing and cross porting make sure both rods are extended before either rod can retract, ensuring positive part feeding.
• Easy part jam clearing due to internal back pressure cross port design, this allows both rods to be retracted with the air off.
• Piston seals are U-CUP type for long service life.
• Hall effect sensors are available to monitor stroke position at any point in the stroke.
• Adjustable stroke on retraction.

SPECIFICATIONS
Design: Double Acting, Internal Sequencing
Stroke: 1 in [25 mm]
Option: Adjustable Stroke
Thrust Force: @80 psi [5.5 BAR]
Extend Force: 18 lb [80 N]
Retract Force: 10 lb [45 N]
Time: .35 Sec [.35 sec]
Pressure Range: Low/High 20-120 PSI [1.4-8 BAR]
Temperature Range: Low/High -20˚/180˚F [-28˚/80˚C]
Side Play: ± .002 in ± 0.06 mm
Loading Capacity:
Max Moment Mx: 50 lbs [6 Nm] 5 lbs [0.6 Nm]
Max Moment My: 50 lbs [6 Nm] 5 lbs [0.6 Nm]
Max Moment Mz: 50 lbs [6 Nm] 5 lbs [0.6 Nm]
Material: High Strength, Aluminum Alloys, Bronze
Weight: 8 oz [227 g]
Piston Diameter: .563 in [14 mm]

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TYPICAL OPERATION:
Rod B extends
Internal sequence cross porting allows rod A to retract only after rod B is fully extended.

Rod A extends
Internal sequence cross porting allows rod B to retract only after rod A is fully extended.

AGI Escapements are two double acting cylinders that are cross ported and internally sequenced. A four way, two position valve is needed to operate this escapement. *Rods A and B must be allowed to extend to the end of it’s stroke to operate.

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

* NOTE: Hall Effect Sensors are hard wired with a 20” pigtail.
Sensor Part # SHN01, SHP01, SHNQ3, SHPQ3

DESIGN/MODEL
AGE-1

TYPE
M = METRIC
= IMPERIAL

SENSOR TYPE*
1 = NPN
2 = PNP

SENSOR OPTIONS
1 = LEFT
2 = RIGHT
3 = BOTH

SENSOR CONNECTOR
1 = POTTED
2 = QUICK DISCONNECT

* NOTE: Hall Effect Sensors are hard wired with a 20” pigtail.
Unless noted, all tolerances are as indicated here:

- **All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" (.013mm)**
- **Metric Threads Course Pitch**
  - Imperial: 0.00 = ± 0.01
  - Inch: 0.000 = ± 0.005
  - Metric: [0.0] = ± 0.25
  - [0.0] = ± 0.13
  - [0.00] = ± 0.013