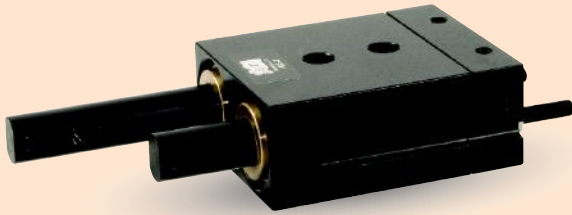# AGE-2 Feed Escapement
Built-in Air Cylinder

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	1.25 in	31.7 mm

Option: Adjustable Stroke

Thrust Force: @80 psi [5.5 BAR]

Extend Force:	35 lb	[155 N]
Retract Force:	33 lb	[146 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:

	Static	Dynamic
Max Moment M_x	150 lbs [11.3 Nm]	13 lbs [2.8 Nm]
Max Moment M_y	150 lbs [11.3 Nm]	13 lbs [2.8 Nm]
Max Moment M_z	150 lbs [11.3 Nm]	13 lbs [2.8 Nm]
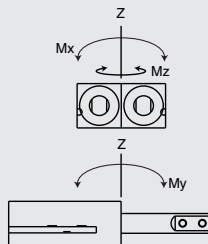
Material: High Strength, Aluminum Alloys, Bronze

Weight:	12 oz	[340 g]
Piston Diameter:	.750 in	[19 mm]

January 2009 - PATENTED   Made in the USA

TYPICAL OPERATION:

1) Rod B extends

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

3) Rod A extends

4) Internal sequence cross porting allows rod B to retract only after rod A is fully extended.
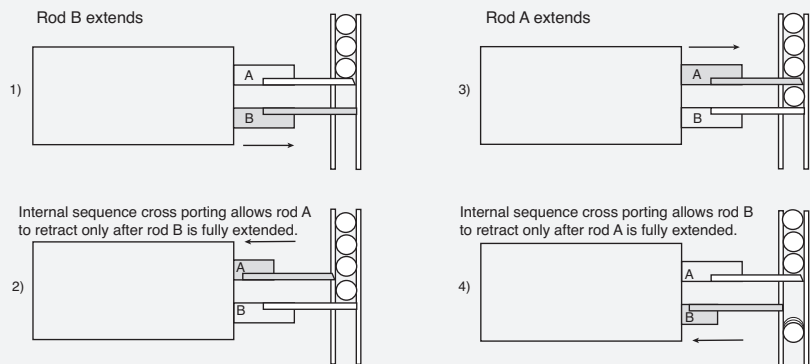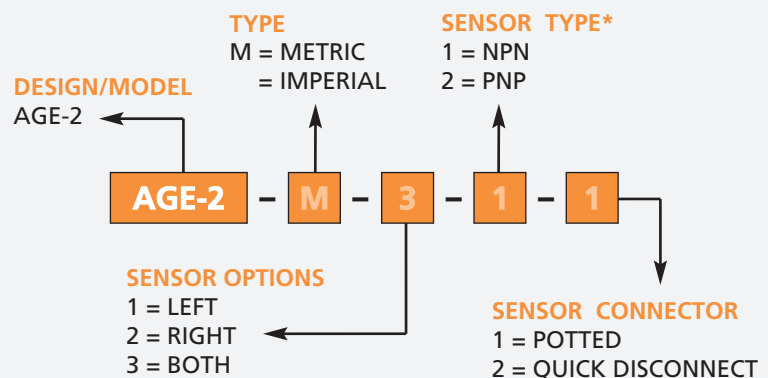
AGI Escapements are two double acting cylinders that are cross ported and internally sequenced. A four way, two position valve is needed to operate this escapement. **Rods A and B must be allowed to extend to the end of it's stroke to operate.**

HOW TO ORDER

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

DESIGN/MODEL
AGE-2

TYPE
M = METRIC
= IMPERIAL

SENSOR TYPE*
1 = NPN
2 = PNP

AGE-2 – M – 3 – 1 – 1

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.
Sensor Part # SHN01, SHP01, SHNQ3, SHPQ3

AGI AUTOMATION COMPONENTS

2D&3D

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

3/16" S.F. X 1/4" DEEP
[5MM S.F. X 6MM DEEP]
(2) PLACES ON OPP. SIDE

#10-32 [M5] PORTS

1.000
[25.40]

2.0000
[50.800]

1.140
[28.96]

.375
[9.52]

1.125
[28.58]

.200
[5.08]

1.475
[37.47]

2.250
[57.15]

C'B FOR #10-32 [M5] SHCS
TAPPED 1/4"-20 [M6] OPP. SIDE
(2) PLACES

1.850
[46.99]

SENSOR SLOT
EACH SIDE

#10-32 [M5] THRU
(2) PER ACTUATION ROD

1.100
[27.94]

.875
[22.23]

.500
[12.7]

1.125
[28.58]

2.854
[72.49]

.500
[12.70]

.188
[4.76]

2.250
[57.15]

5.104
[129.64]

Unless noted, all tolerances are as indicated here:

All Dowel Holes are SF
(Slip Fit) Locational Tolerance
± .0005" [.013mm]

Metric Threads
Course Pitch

			Metric:	[0.] = ±.25
Imperial:	0.00 = ±.01			
Inch	0.000 = ±.005		[mm]	[0.0] = ±.13
	0.0000 = ±.0005			[0.00] = ±.013