English Single Acting *E 9 X [Stroke] [Mounting]*

Available Strokes (inch): 0.5, 1, 1.5

Mounting Options: (N) Nose Mount, **(U)** Universal Mount

Use external stops. Do not bottom out the piston under pressure as it can damage the unit!

Dimensional

Bore Diameter: 0.366 in

Piston Area (Push Direction): 0.105 in^2

Rod Diameter: 0.125 in

Supply: Clean, Dry Unlubricated Air

Pressure Range: Full vacuum to 100 psi

Minimum pressure required for actuation: <0.5 psi

Filtration: 5-micron particle filter (coalescing filter recommended)

Environment

Temperature Range: -20 °C to +100 °C (standard configuration)

-40 °C to +150 °C (extreme temperature configuration)

Mounting

Cylinder Nut Torque: 20 to 30 in-lb_f
Note: Apply tightening/support wrench to the end being mounted only.

Rod Nut Torque: 3 to 6 in-lb_f
Note: Use pin in Ø.042 hole to resist tightening torque. ***DO NOT USE PLIERS!***

Cycle Life

The very long cycle life of this product depends on how the cylinder is used as well as the requirements of your application. Leak will increase as the piston and rod seal wear with high number of cycles. High loads and especially high side loads along with cycling can increase friction. Typically, cylinders will last from 1 to 25 million cycles before they are replaced.

Output: Single acting (air extend, spring retract)

Push Force (lb_f) = Supply pressure (psi) x 0.105

10.5 lb_f maximum at 100 psi

Piston Friction: 2% of load typical (without side load)

Spring Retract Forces:

Stroke (in)	Retracted Spring Force (lb)	Extended Spring Force (lb)
0.5	0.12	0.17
1.0	0.08	0.17
1.5	0.05	0.17

Leak

Piston Leak <1.16 standard L/min at 50 psi

Mass

(N) Nose Mount

Total Mass (g) = 29.2 + (9.8 x stroke)

Moving Mass (g) = 4.5 + (1.36 x stroke)

(U) Universal Mount

Total Mass (g) = 33.3 + (9.8 x stroke)

Moving Mass (g) = 4.5 + (1.36 x stroke)

Sensors

Proximity switches: GL series sensors mount in T tracks and switch on when the piston magnet is detected.

Position feedback: GX series sensors mount in T tracks and output a signal proportional to the position of the piston.

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Phone: 203-846-2021
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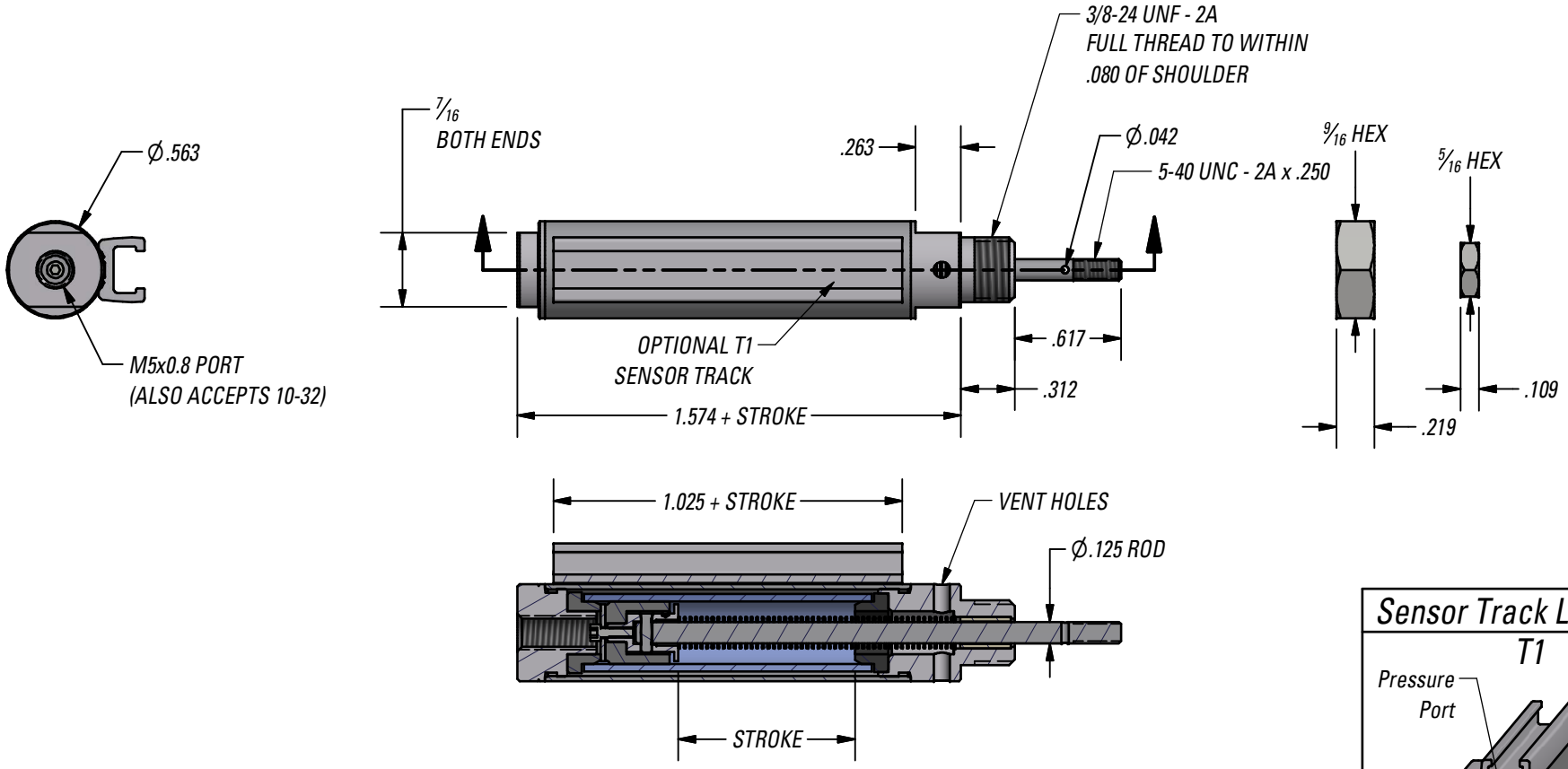
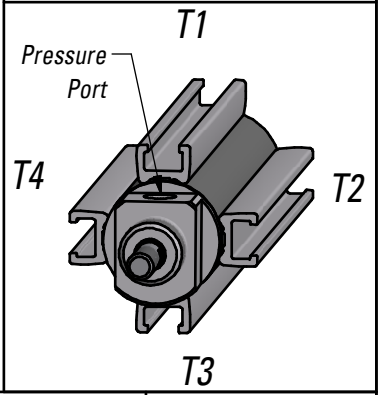
rev 0521AJ



Sensor Track Locations



STROKE	PART NUMBER	RETRACTED SPRING FORCE (LB)	EXTENDED SPRING FORCE (LB)
0.5	E 9 X 0.5 N	.12	.17
1.0	E 9 X 1.0 N	.08	.17
1.5	E 9 X 1.5 N	.05	.17

ADDITIONAL OPTIONS

1a. Want a magnet attached to the piston and also want sensor mounting tracks? Add any combination of tracks, T1, T2, T3, T4
Example: E 9 X 1.0 N T1T3
OR
1b. Only want a magnet attached to the piston? Add "M" to the end of the part number
Example: E 9 X 1.0 NM

2. Add "-ET" after all other options for extreme temperature option.

Airpot®
35 LOIS ST
NORWALK CT 06851
US
203-846-2021
www.airpot.com

PART
E9 X - N

REV 1102AF

AIRPEL, ENGLISH MODEL 9

UNITS IN INCHES

3RD ANGLE PROJECTION