

Metric Double Acting *M 32 D [Stroke] [Mounting]*

Standard Strokes (mm): 12.5, 25, 50, 75, 100, 175, 203

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: 32.5 mm

Piston Area (Push Direction): 830 mm²

Piston Area (Pull Direction): 751 mm²

Rod Diameter: 10 mm

Supply: Clean, Dry Unlubricated Air

Pressure Range: 0.0035 to 0.7 MPa

Minimum pressure required for actuation: <0.0035 MPa

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

Housing Mounting Thread Torque: 0.9 to 1.4 N•m

Rod Thread Torque: 0.45 to 0.9 N•m

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: Double acting (push and pull)

Push Force (N) = Supply pressure (MPa) x 830
581 N maximum at 0.7 MPa

Pull Force (N) = Supply pressure (MPa) x 751
525.7 N maximum at 0.7 MPa

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

Leak

Piston Leak <2.2 standard L/min at 0.34 MPa

Rod Seal Leak <2 standard L/min at 0.34 MPa

Mass

(N) Nose Mount

Total Mass (g) = 619 + (4.04 x stroke)

Moving Mass (g) = 87.2 + (0.63 x stroke)

(U) Universal Mount

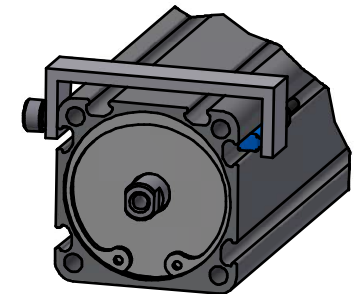
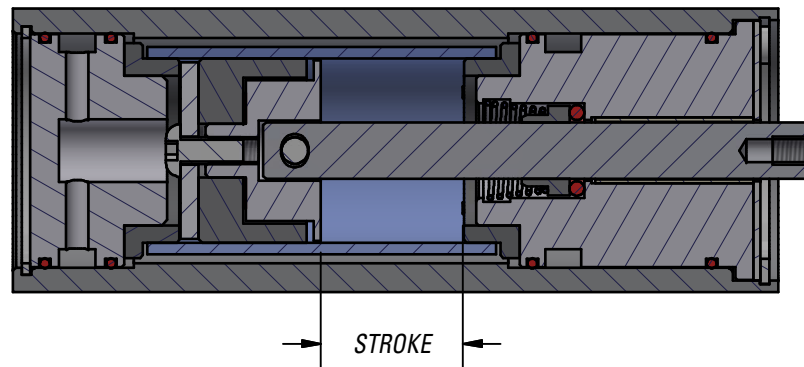
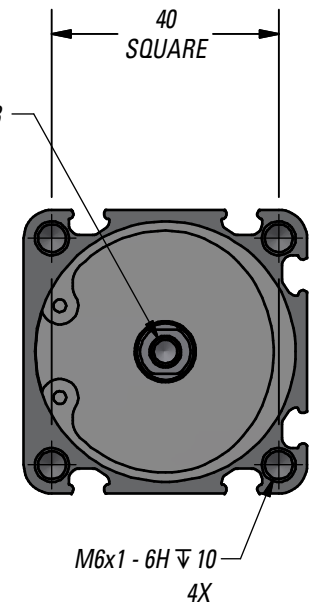
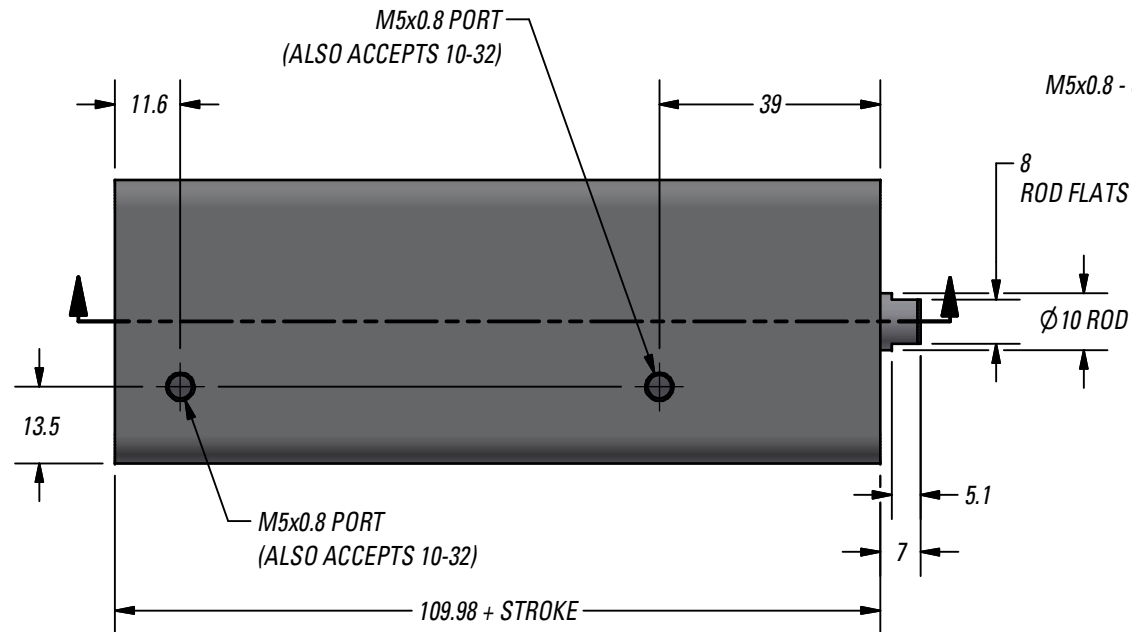
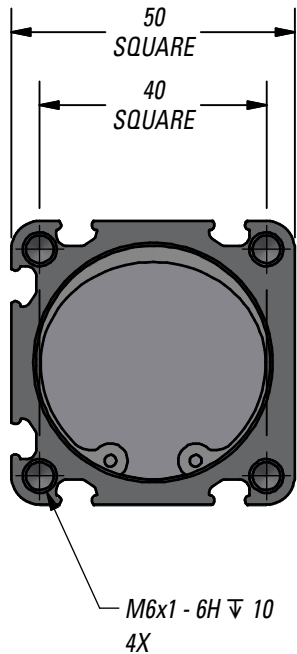
Total Mass (g) = 693 + (4.04 x stroke)

Moving Mass (g) = 87.2 + (0.63 x stroke)

Sensors

Proximity switches: GL series sensors mount in T tracks and switch on when the piston magnet is detected. A mounting bracket is required for M32 cylinders.

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



SENSOR CLAMP REQUIRED
FOR MOUNTING SENSORS

STROKE	PART NUMBER
12.5	M 32 D 12.5 N
25.0	M 32 D 25.0 N
37.5	M 32 D 37.5 N
50.0	M 32 D 50.0 N
75.0	M 32 D 75.0 N
100.0	M 32 D 100.0 N
175.0	M 32 D 175.0 N

ADDITIONAL OPTIONS

1. Want a magnet attached to the piston?
Add "M" to the end of the part number.

Example: M32D25.0NM

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

M32 D - N

REV
0920AF

AIRPEL, METRIC MODEL 32

UNITS IN mm

