

English Double Acting *E 16 D [Stroke] [Mounting]*

Standard Strokes (inch): 0.5, 1, 1.5, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 (*Custom strokes also available*)

Mounting Options: (N) Nose Mount, (U) Universal Mount, (S) Front & Rear Stud Mount, (D) Double Rod

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

Dimensional

Bore Diameter: 0.627 in

Piston Area (Push Direction): 0.307 in²

Piston Area (Pull Direction): 0.276 in²

Rod Diameter: 0.197 in

Output: Double acting (push and pull)

Push Force (lb_f) = Supply pressure (psi) x 0.307
30.7 lb_f maximum at 100 psi

Pull Force (lb_f) = Supply pressure (psi) x 0.276
27.6 lb_f maximum at 100 psi

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

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)

Leak

Piston Leak <1.39 standard L/min at 50 psi

Rod Seal Leak <2.6 standard L/min at 50 psi

Environment

Temperature Range: -20 °C to +100 °C (standard configuration)
-40 °C to +150 °C (extreme temperature configuration)

Mass

(N) Nose Mount

Total Mass (g) = 57.4 + (15.3 x stroke)

Moving Mass (g) = 17 + (3.99 x stroke)

(U) Universal Mount, (S) Front & Rear Stud Mount

Total Mass (g) = 63.4 + (15.3 x stroke)

Moving Mass (g) = 17 + (3.99 x stroke)

(D) Double Rod

Total Mass (g) = 93.1 + (21.0 x stroke)

Moving Mass (g) = 28.1 + (7.99 x stroke)

Mounting

Cylinder Nut Torque: 30 to 40 in-lb_f

Rod Nut Torque: 4 to 8 in-lb_f

Note: Apply tightening/support wrench to the end being mounted only.

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.

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.

