

Model: 2K S 56 P (stock) & 2K 56 P (custom)

Stock Strokes (in): 0.5, 1.0, 1.5, 2.0

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

Dimensional

Bore Diameter: 0.220 in

Piston Area: 0.038 in²

Supply: Clean, Dry, Unlubricated Air

Pressure Range: Full Vacuum to 125 psi
(0.2 psi differential required for actuation)

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

Environment

Temperature Range: -55 °C to +70 °C (standard configuration)
-55 °C to +150 °C (high temp configuration)

Mounting

NY/NF rod configurations: Misalignment handling is built into the rod design, so no separate misalignment coupling is needed. Fix the cylinder in place and then attach the rod to a pivoting or linearly guided load. Ensure that the rod does not rub against the inside of the rod clearance hole throughout the entire stroke.

Cylinder Nut Torque: 2 to 4 in-lb_f

Rod Nut Torque (NF rod config): 1 to 3 in-lb_f

Fitting Torque: 1 to 3 in-lb_f

Output

Push only with compressed air

Push Force (lb_f) = Supply pressure (psi) x 0.038

4.75 lb_f maximum at 125 psi

Pull only with vacuum

Pull Force (lb_f) = Vacuum supply (psi) x 0.038

0.56 lb_f maximum at 14.7 psi (full vacuum)

Piston Friction: approximately 0.5% to 1.5% of output force

Piston Friction Coefficient: approximately 0.2
(static & dynamic)

Leak

Piston Leak <0.19 standard Liters /minute at 65 psi

<0.57 standard Liters /minute at 125 psi

Cycle Life

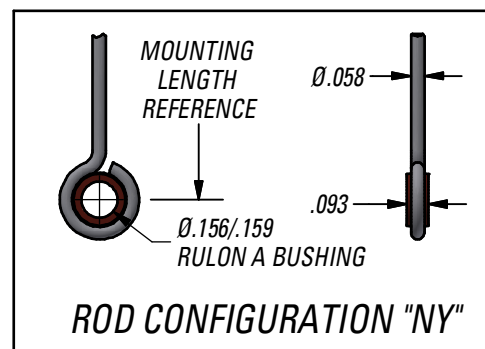
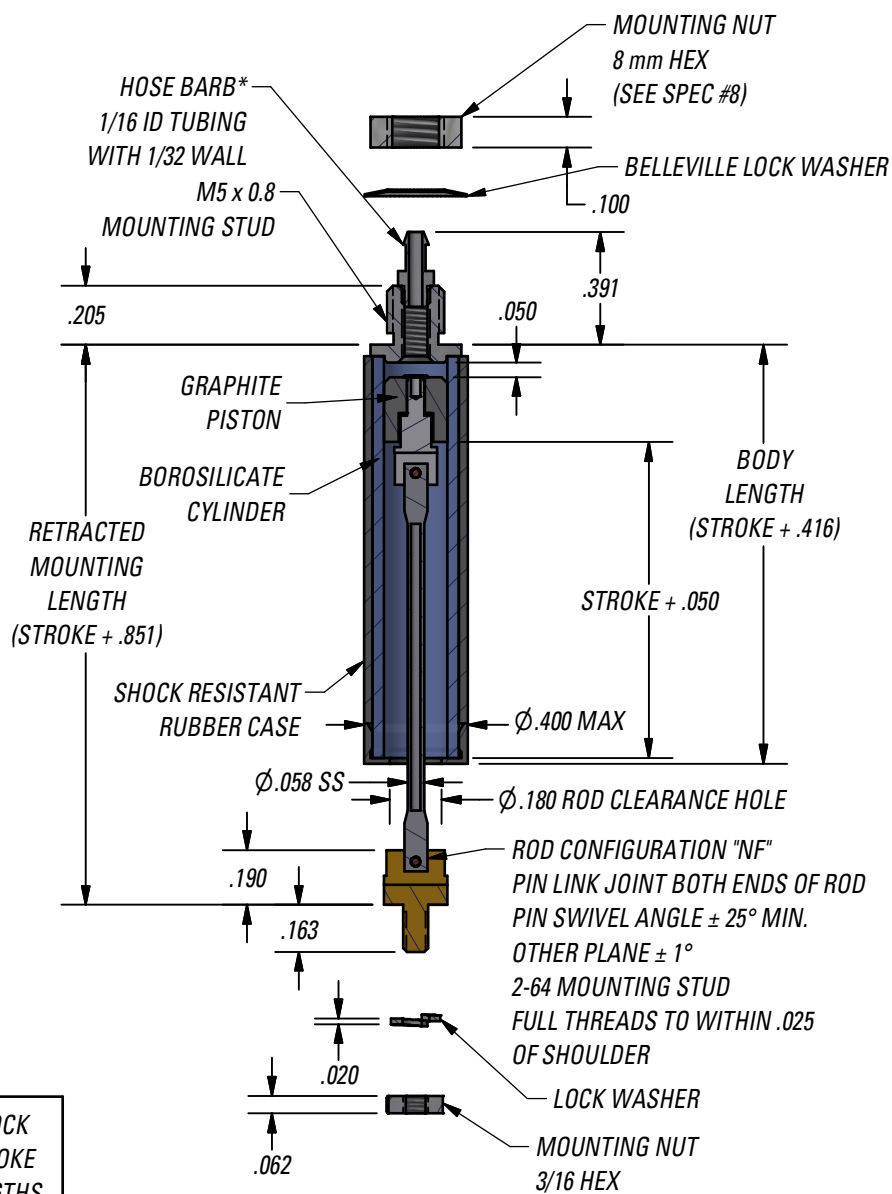
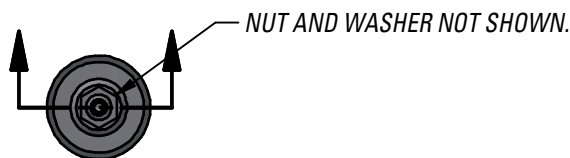
The very long cycle life of this product depends on how the cylinder is used as well as the requirements of your application. Leak will increase slowly as the piston wears with high number of cycles. High loads and especially high side loads along with cycling can increase friction. Typically, cylinders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

Mass (stock units)

Total Mass (g) = 7.8 + (1.4 x stroke)

Moving Mass (g) = 1.4 + (0.2 x stroke)





STOCK STROKE LENGTHS

0.5
1.0
1.5
2.0

* If not using the provided hose barb,
the threaded port is M2.5x0.45 - 6g

Part Number:

2K S 56 P □ □

ROD CONFIGURATION
STROKE LENGTH

Airpot®

35 LOIS ST
NORWALK CT 06851
US

203-846-2021
www.airpot.com

PART

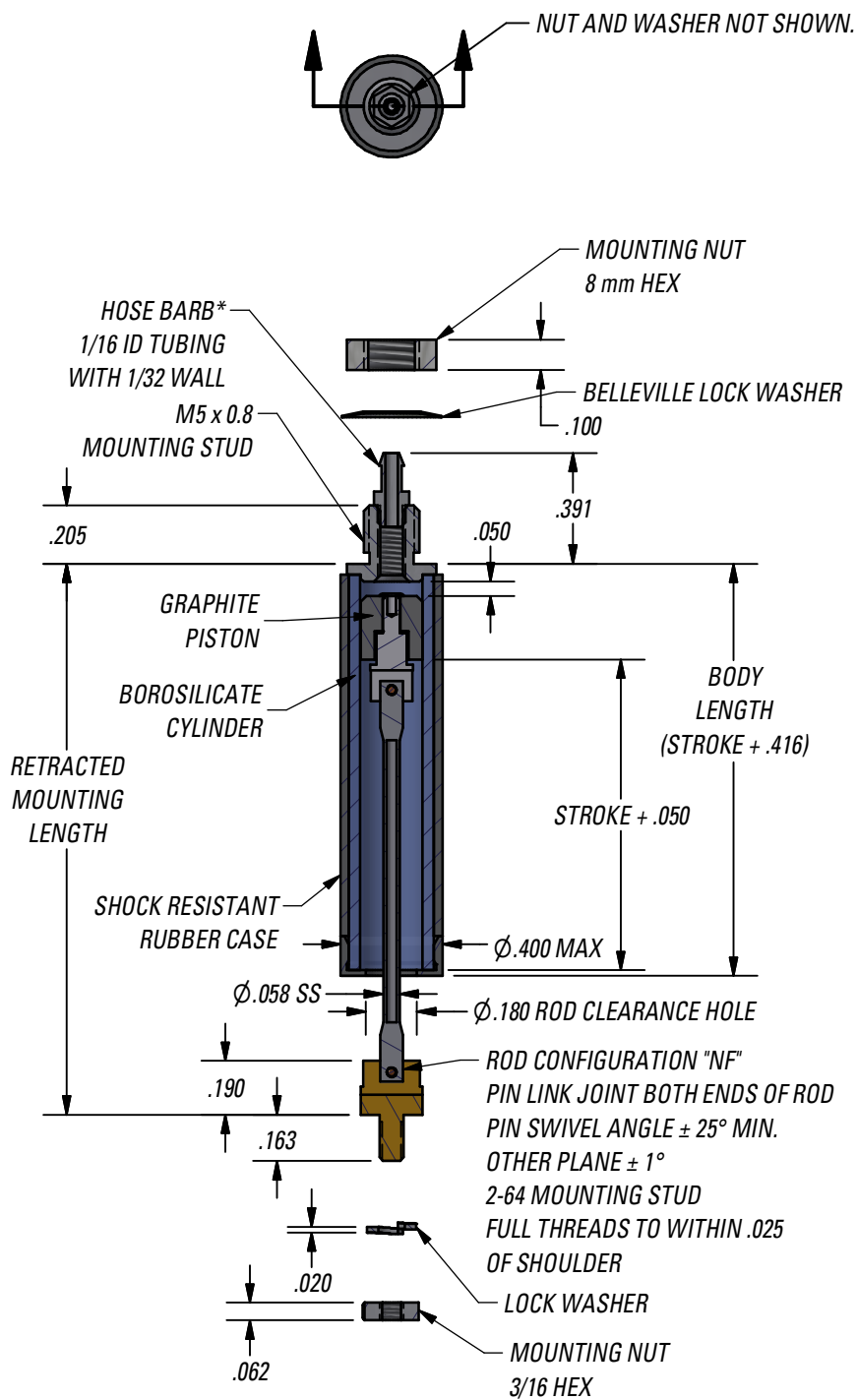
2K S 56 P

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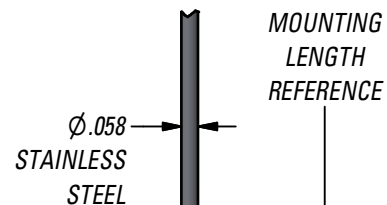
STOCK 2K56 ACTUATOR

UNITS IN INCHES

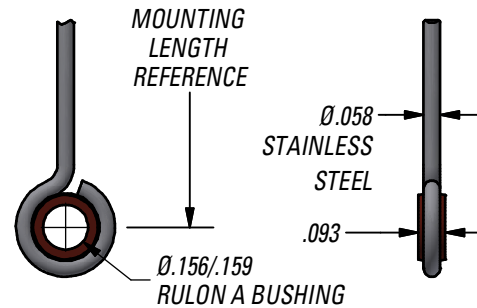




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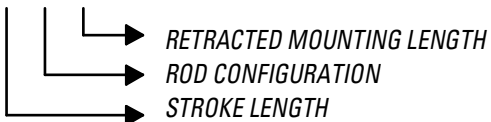
ROD CONFIGURATION "NW"



ROD CONFIGURATION "NY"

Part Description:

2K 56 P □ □ □ L K O



K = Rubber Case
O = Piston Retainer

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PART

2K 56 P

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CUSTOM 2K56 ACTUATOR

UNITS IN INCHES

