

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

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

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

Dimensional

Bore Diameter: 0.220 in

Piston Area: 0.038 in²

Environment

Temperature Range: -55 °C to +70 °C (standard configuration)
-55 °C to +150 °C (available as custom)

Mounting

NY/NF/TX 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.

TV/TW rod configurations: Misalignment handling is not fully built into the rod design, so a separate ball joint needs to be attached to the end of the rod. Do not use a misalignment coupling. 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.

Mounting Hole Options

Rectangular: .312 x .375 in (8 mm x 10 mm)

Round: Ø.375 in (Ø10 mm)

Suggested Mounting Bracket Thickness: .060 to .125 in

Cylinder Nut Torque: 4 to 8 in-lb_f

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

Output: Available in 2-Way (A) Damping

Pull Damp Capacity = 0.5 lb_f maximum

Push Damp Capacity = 0.35 lb_f maximum

Stock Dashpots and Custom with Super Piston Fit:

Damping Coefficient Range (Adjustable) = 0 to 1 lb_f-s/in

Custom Dashpot with Standard Piston Fit:

Damping Coefficient Range (Adjustable) = 0 to 0.5 lb_f-s/in

Piston Friction Coefficient: Approximately 0.2
(static & dynamic)

Friction Force without Side Load: <1 g

Cycle Life

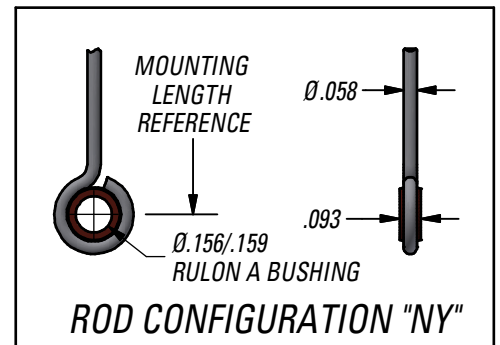
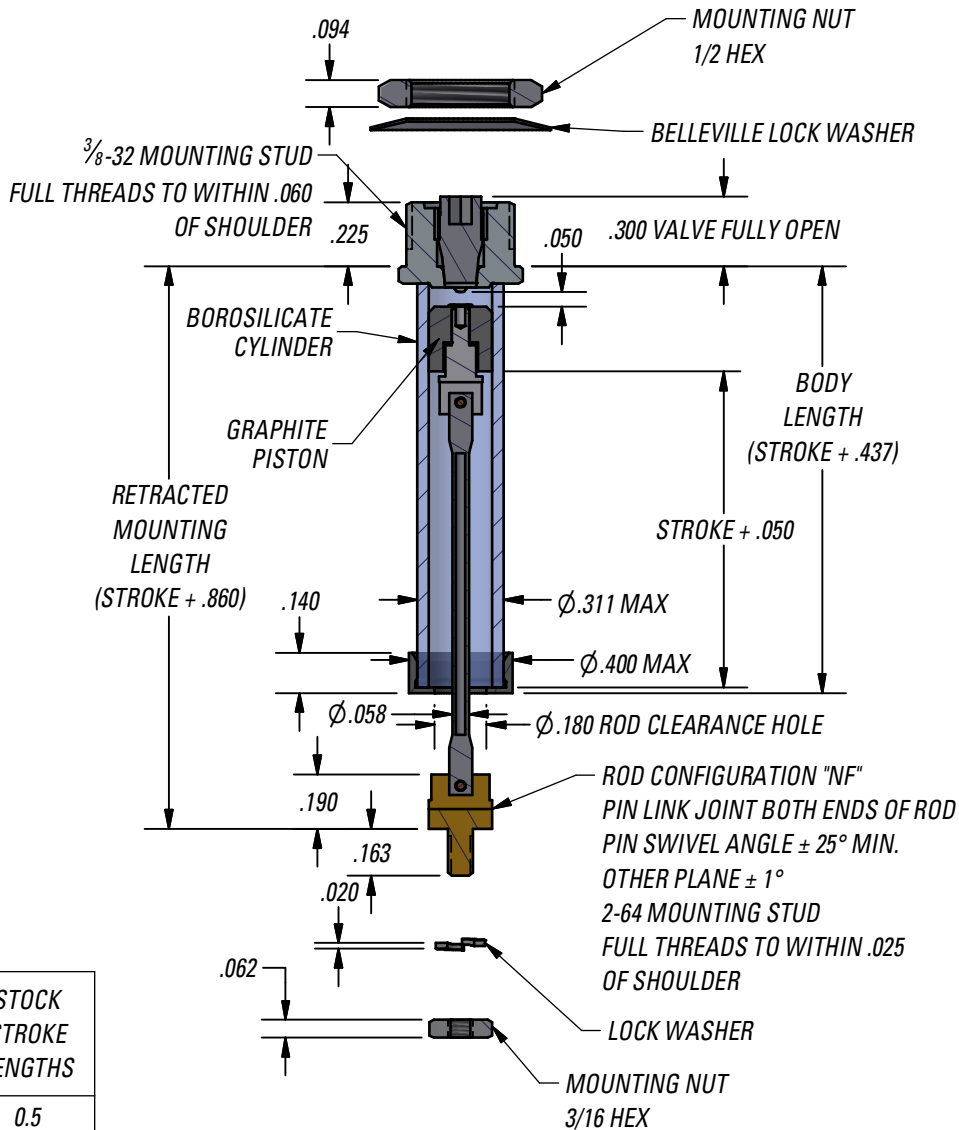
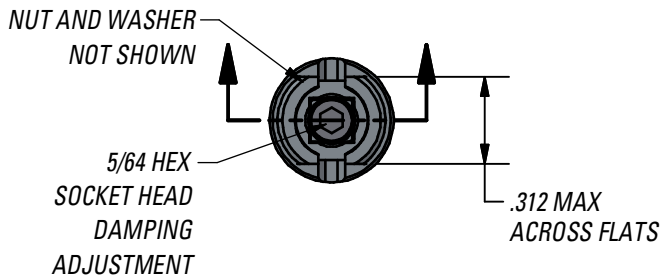
The very long cycle life of this product depends on how the cylinder is used as well as the requirements of your application. Leak will increase slowly as the piston wears with high number of cycles. High loads and especially high side loads along with cycling can increase friction. Typically, cylinders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

Part Number:

2K S 56 A □ □

ROD CONFIGURATION
STROKE LENGTH

Airpot®

35 LOIS ST
NORWALK CT 06851
US

203-846-2021
www.airpot.com

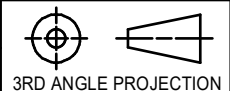
PART

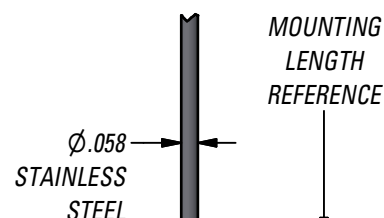
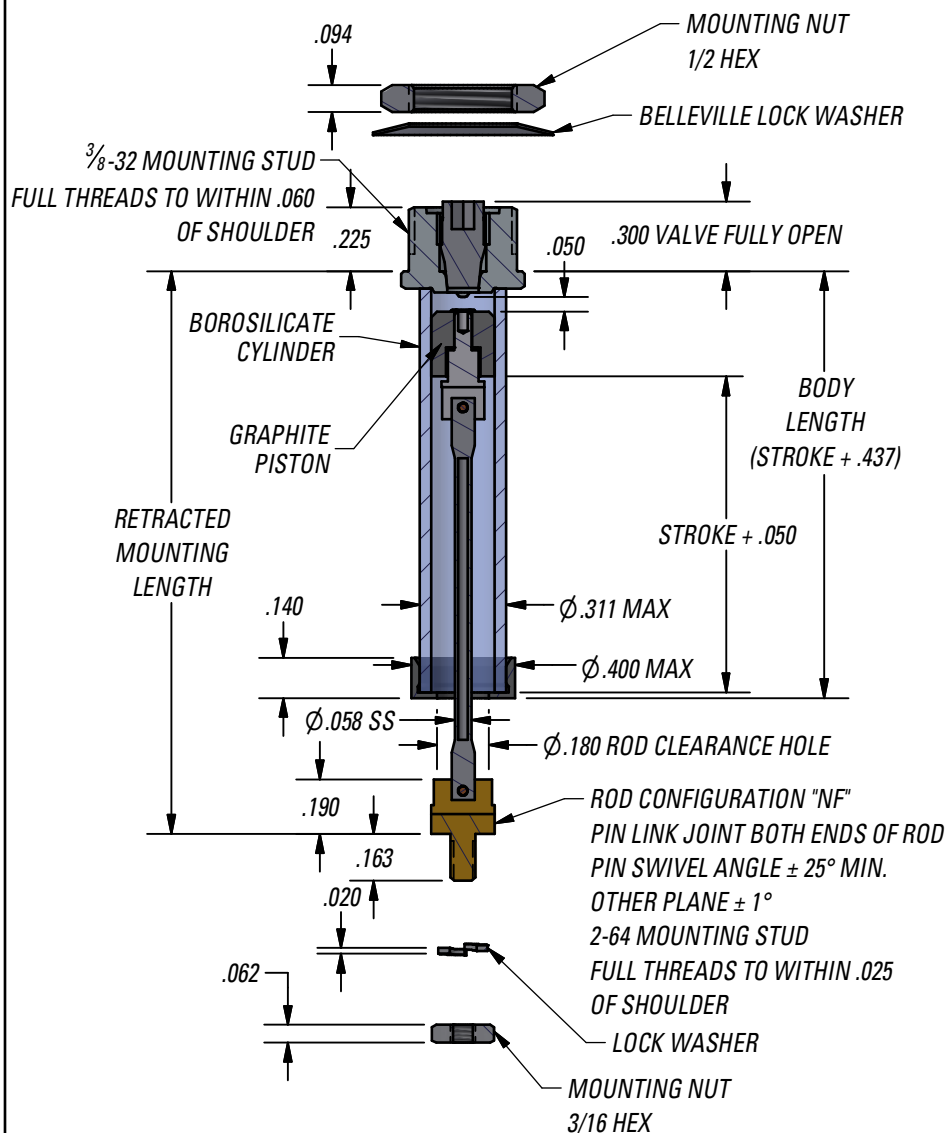
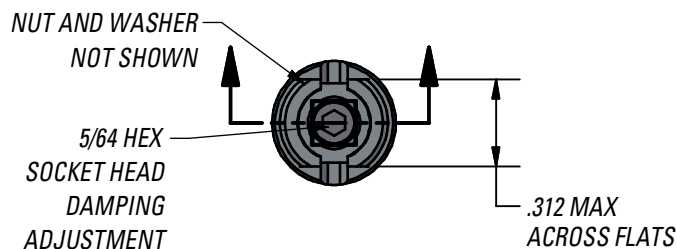
2K S 56 A

REV
0317AJ

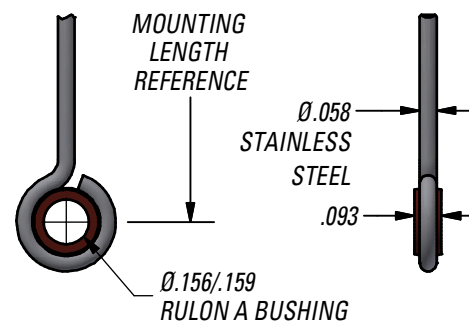
STOCK 2K56 DASHPOT

UNITS IN INCHES





ROD CONFIGURATION "NW"

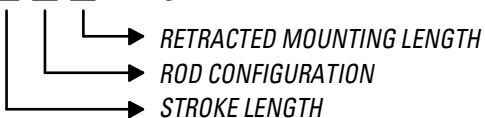


ROD CONFIGURATION "NY"

Part Description:

2K 56 A □ □ □ L K O

L = Super Piston Fit
K = Rubber Case
O = Piston Retainer



Airpot®

35 LOIS ST
NORWALK CT 06851
US

203-846-2021
www.airpot.com

PART

2K 56 A

REV
0317AJ

CUSTOM 2K56 DASHPOT

UNITS IN INCHES

