



Model: 2K S 444 (stock) & 2K 444 (custom)

Stock Strokes (in): 0.5, 1.0, 1.5, 2.0, 3.0

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

Dimensional

Bore Diameter: 1.750 in

Piston Area: 2.405 in²

Environment

Temperature Range: -55 °C to +70 °C

Mounting

TX rod configuration: 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.

Rod Nut Torque (TX, TV rod configurations): 5 to 15 in-lb_f

Output: Available in 2-Way (A), Pull (B), or Push (C) Damping

Pull Damp Capacity = 30 lb_f maximum

Push Damp Capacity = 24 lb_f maximum

Stock Dashpots and Custom with Super Piston Fit:

Damping Coefficient Range (Adjustable) = 0 to 40 lb_f-s/in

Custom Dashpot with Standard Piston Fit:

Damping Coefficient Range (Adjustable) = 0 to 20 lb_f-s/in

Piston Friction Coefficient: Approximately 0.2
(static & dynamic)

Friction Force without Side Load: <8 g

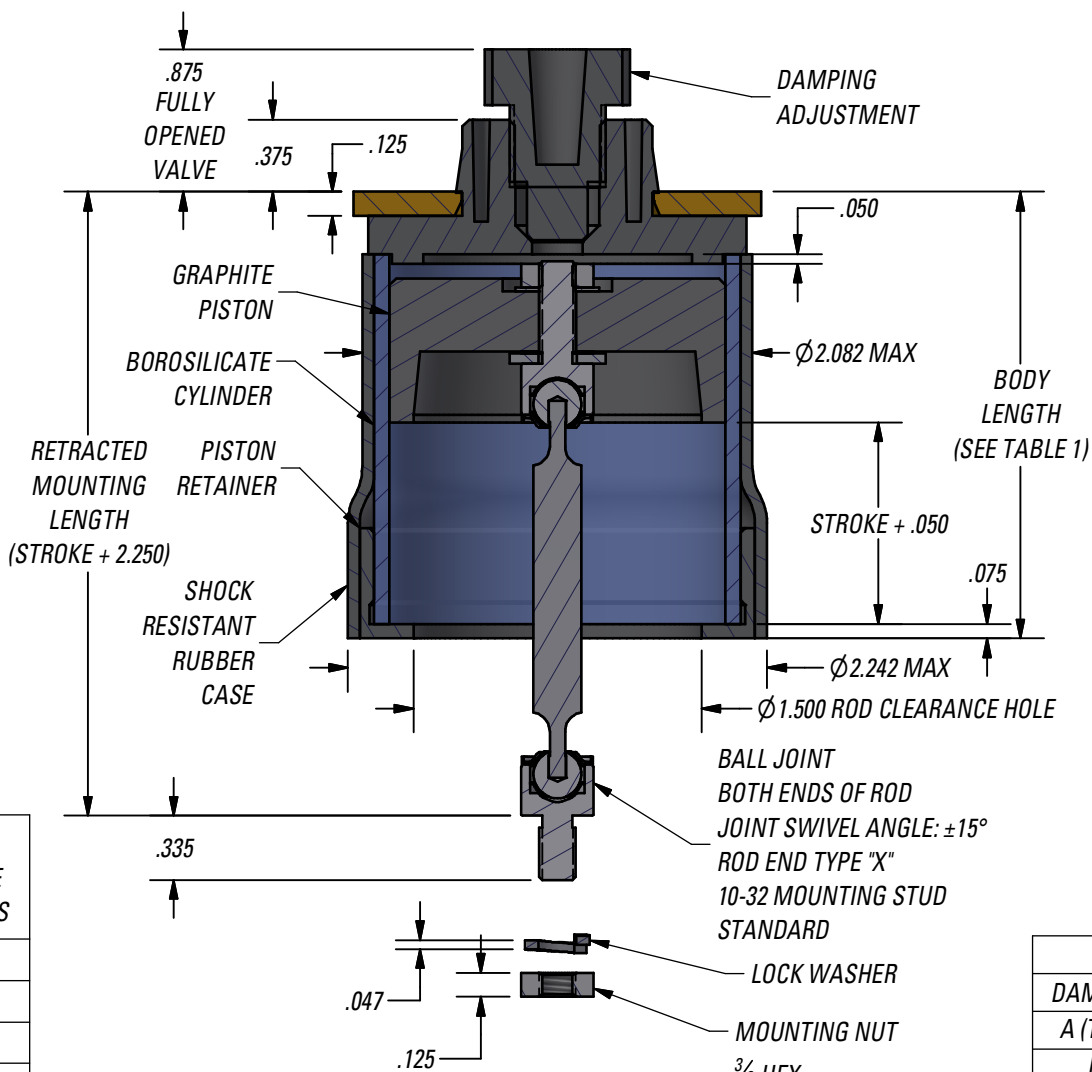
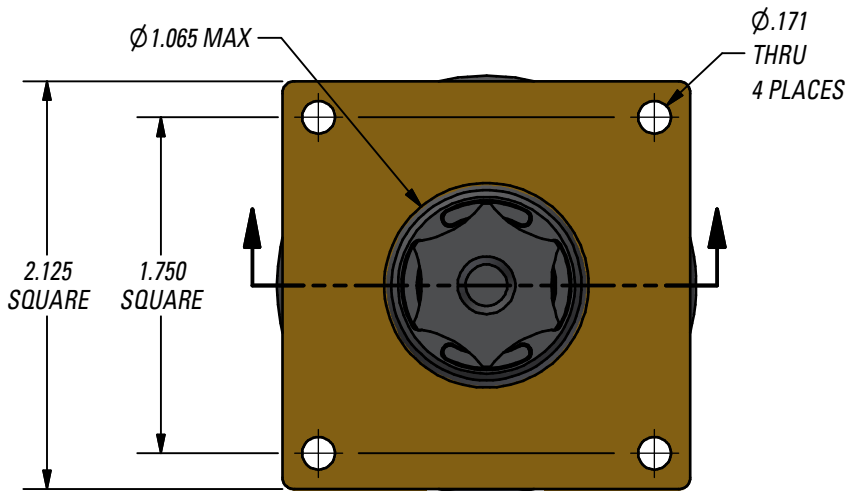
Cycle Life

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) = 113.7 + (32 x stroke)

Moving Mass (g) = 31.6 + (6.3 x stroke)



STOCK STROKE LENGTHS

0.5
1.0
1.5
2.0
3.0

TABLE 1: BODY LENGTH

DAMPING TYPE	ROD TYPE T
A (TWO-WAY)	STROKE + 1.327
B (PULL)	STROKE + 1.327
C (PUSH)	STROKE + 1.462

Part Number:

2K S 444 □ □ TX

STROKE LENGTH

DAMPING DIRECTION (A/B/C)

Airpot®

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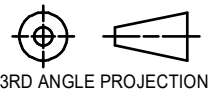
PART

2K S 444 A/B/C

REV
0208AF

STOCK 2K444 DASHPOT

UNITS IN INCHES



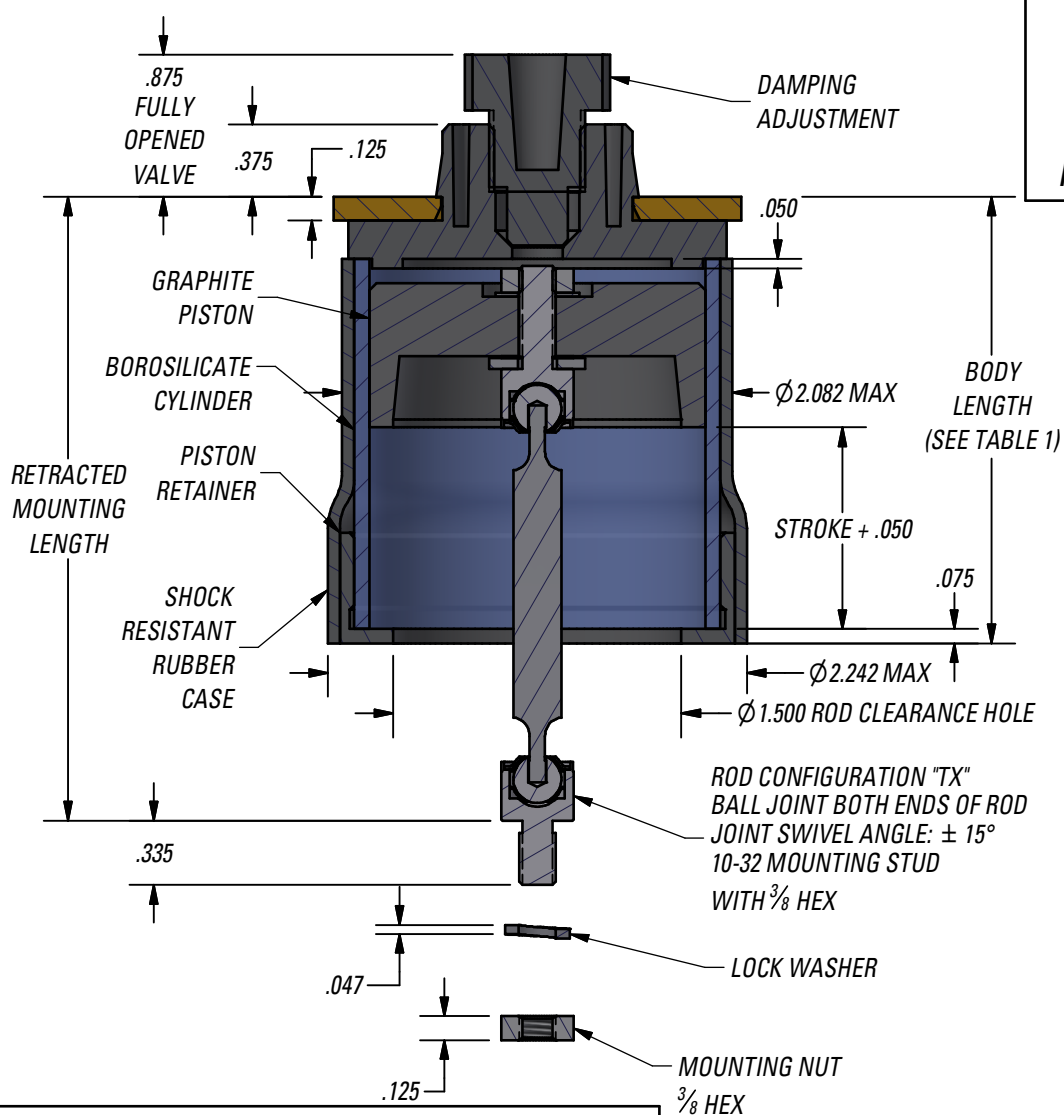
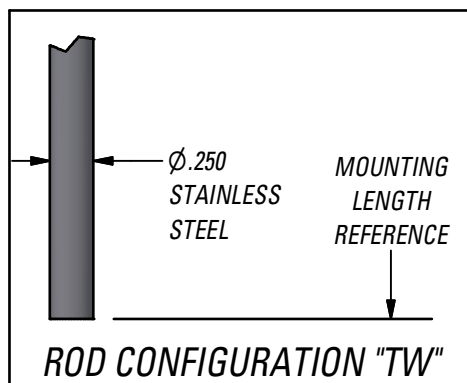
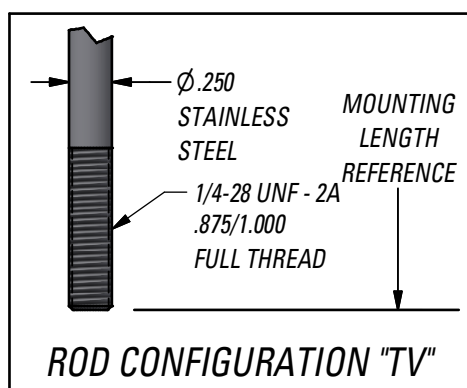
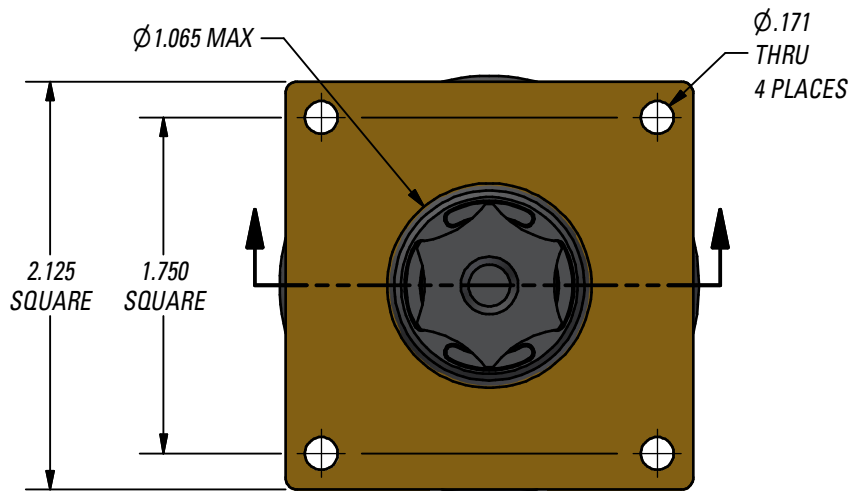
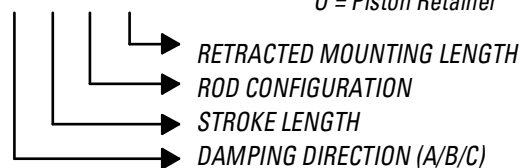


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Part Description:

2K 444 □ □ □ □ L K O

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



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PART

2K 444 A/B/C

REV
0115AH

CUSTOM 2K444 DASHPOT

UNITS IN INCHES

