

We make what you make
run smoother.



Airpot[®]

Dashpots • Actuators • Shock Absorbers

Airpot Dashpot Performance specifications

MODEL	2K56	2K95	2K160	2K240	2K325	2K444
BORE (inches)	0.22	0.366	0.627	0.945	1.281	1.75
STROKES AVAILABLE – STOCK UNITS (inches)	0.5, 1.0, 1.5, 2.0	0.5, 1.0, 1.5, 2.0	0.5, 1.0, 1.5, 2.0, 3.0	0.5, 1.0, 2.0, 3.0	0.5, 1.0, 2.0, 3.0	0.5, 1.0, 2.0, 3.0
STROKE RANGE – CUSTOM UNITS (inches) (any x.xxx)	.125–11.0	.125–11.0	.125–13.0	.125–12.0	.125–10.0	.125–8.0

FORCE CAPACITY GUIDELINES**

PULL DAMPING DIRECTION lbs force (Starting from fully retracted position)	0.5	1.4	4	9	17	30
PUSH DAMPING DIRECTION lbs force (Starting from fully extended position)	0.35	1	3	7	13	24

**NOTE: Best performance for each model will be achieved at or below input forces shown above.
Maximum force capability is higher and is based on % of available volume displaced.

APPROXIMATE ENERGY CAPACITY AT REFERENCE STROKES

STROKE	1 in / 3 in	1 in / 3 in	1 in / 3 in	1 in / 3 in	1 in / 3 in	1 in / 3 in
PULL DAMPING DIRECTION (inch – lbs)	.22 / .75	.64 / 2.2	1.8 / 6.1	4.1 / 14	7.5 / 26	14 / 48
PUSH DAMPING DIRECTION (inch – lbs)	.28 / 1.5	.80 / 4.2	2.2 / 12	5.2 / 27	9.5 / 50	18 / 93

DAMPING COEFFICIENT RANGE

FORCE / VELOCITY lbs/(in/sec)	0–0.5	0–2	0–5	0–30	0–40	0–40
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NOTE: Higher damping rates available. Please consult an Airpot applications engineer.

OTHER SPECIFICATIONS

FRICTION COEFFICIENT	0.2	0.2	0.2	0.2	0.2	0.2
PISTON FRICTION (without side load) :grams	< 1	< 1	< 1	< 1	< 4	< 8
OPERATING TEMPERATURE RANGE*	-55°C to +150°C	-55°C to +150°C	-55°C to +150°C	-55°C to +150°C	-55°C to +150°C	-55°C to +150°C

*NOTE: If operating at temperatures over 70°C (158°F) please advise factory.

COMPONENT WEIGHTS

Fixed mass in grams (cylinder, bottom, etc.) = (C1 x stroke) + C2	C1	1.2	2.9	6.1	11.5	17.5	25.7
	C2	6.4	8.9	13.6	40.6	60.3	82.1
Movable mass in grams (piston and rod) = (C3 x stroke) + C4	C3	0.2	0.4	0.4	1.3	6.3	6.3
	C4	1.4	2.8	4.3	8.3	13.6	31.6

Airpot Performance specifications

A summary of all Airpot configuration basic specifications. Refer to individual products for specific details.

MODEL	56	95	160	240	325	444
BORE (inches)	0.22	0.366	0.627	0.945	1.281	1.75
PISTON AREA (sq inches)	0.038	0.105	0.309	0.701	1.289	2.405

FORCE CAPACITY GUIDELINES**

PULL DAMPING DIRECTION: lbs force (starting from fully retracted position)	0.5	1.4	4	9	17	30
PUSH DAMPING DIRECTION: lbs force (starting from fully extended position)	0.35	1	3	7	13	24

**NOTE: Best performance for each model will be achieved at or below input forces shown above.

Maximum force capability is higher and is based on % of available volume displaced. Please see page 5.

APPROXIMATE ENERGY CAPACITY AT REFERENCE STROKES

AT STROKE =	1 in	3 in	1 in	3 in	1 in	3 in	1 in	3 in	1 in	3 in	1 in	3 in
PULL DAMPING DIRECTION: inch-lbs	.22	.75	.64	2.2	1.8	6.1	4.1	14	7.5	26	14	48
PUSH DAMPING DIRECTION: inch-lbs	.28	1.5	.80	4.2	2.2	12	5.2	27	9.5	50	18	93

DAMPING COEFFICIENT RANGE

FORCE/VELOCITY: lbs/(in/sec)	0-0.5	0-2	0-5	0-30	0-40	0-40
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NOTE: Higher damping rates are available. Please consult an Airpot applications engineer.

MAX LEAK AT REFERENCE PRESSURES FOR ACTUATOR MODELS

AT PRESSURE PSI =	65	125	50	100	50	100	50	100	50	100	50	100
MAX. LEAK RATE: Standard Liters/min	.190	.570	.36	1.17	0.74	2.78	1.06	5.60	2.12	9.6	3.6	15.0

NOTE: Lower leak rates are available upon request. Please consult an Airpot applications engineer.

OTHER SPECIFICATIONS

FRICTION COEFFICIENT	0.2	0.2	0.2	0.2	0.2	0.2
PISTON FRICTION (without side load): grams	< 1	< 1	< 1	< 1	< 4	< 8
OPERATING TEMPERATURE RANGE*	-55C to +150C	-55C to +150C	-55C to +150C	-55C to +150C	-55C to +150C	-55C to +150C
MAX. PRESSURE RATING (for actuator use): psi	125	100	100	100	100	100

*NOTE: If operating at temperatures over 70°C (158°F) please advise factory.

COMPONENT WEIGHTS

Fixed mass in grams (cylinder, bottom, etc.) = (C1 x stroke) + C2	C1	1.2	2.9	6.1	11.5	17.5	25.7
	C2	6.4	8.9	13.6	40.6	60.3	82.1
Movable mass in grams (piston and rod) = (C3 x stroke) + C4	C3	0.2	0.4	0.4	1.3	6.3	6.3
	C4	1.4	2.8	4.3	8.3	13.6	31.6

Ordering guidelines

The data sheets for the above models show the stock and custom configuration details for each model. Here are some simple guidelines to consider when deciding between a stock or custom unit:

Stock Configurations

Model numbers begin with **2KS**

If you require fewer than 25 units or need just a few in a hurry, a stock (preconfigured) unit will be the fastest to obtain — usually withing five working days. Airpot stocks a variety of configurations designed to satisfy most applications.

Order quantities of 25 units or more are placed in our standard production schedule with deliveries of three to six weeks.

Custom Configurations

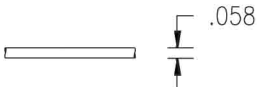
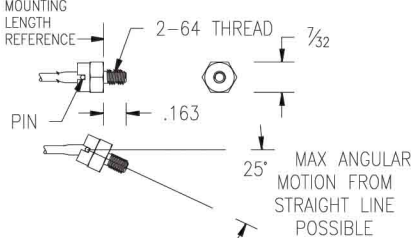
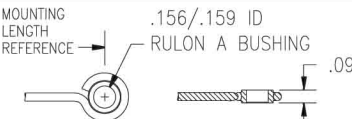
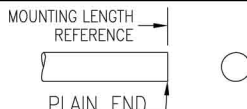
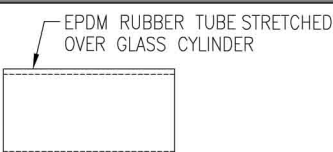
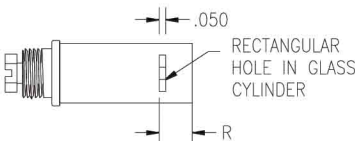
Model numbers begin with **2K**

If you prefer to select a non-stock configuration, Airpot accepts orders in any quantity for custom units configured from any of the options shown on the data sheet. Delivery for most custom units will range from two to six weeks depending on the quantity.

We are also happy to work with customers on special designs that may require non-standard parts. Price and delivery for non-standard designs are quoted on a case-by-case basis.

CONFIGURATION OPTIONS FOR DASHPOT MODELS 2KS56 AND 2K56

Please see the model specification sheet to define the specific model you require.

	OPTIONS	DRAWING	MODELS		COMMENTS and OTHER SPECIFICATIONS
			STOCK	CUSTOM	
	DASHPOT DAMPING DIRECTION		2KS56	2K56	
A	TWO -WAY		STANDARD	STANDARD	
	STROKE				
	MIN (inch)		0.5	0.125	Please specify to .125 inch for custom models if possible.
	MAX (inch)		2.0	11.0	Please consult factory if longer strokes are required.
	ROD TYPES				
N	.058 DIA. ROD – 304 STAINLESS STEEL		STANDARD	STANDARD	
	ROD ENDS				
F	PIN LINK WITH 2-64 THREAD		CHOICE	STANDARD	
Y	LOOP WITH .156 ID REMOVABLE RULON BUSHING		CHOICE	OPTIONAL	Requires Rod Type N.
W	PLAIN END			OPTIONAL	
	MOUNTING LENGTH				
	See Model Spec Sheet for Reference Points and Minimums		PER SPEC SHEET	SPECIFY TO X.XXX	
	ACCESSORIES				
K	IMPACT RESISTANT CASE – EPDM			OPTIONAL	
R	CYLINDER PORT (CROSS SLOT)			OPTIONAL	

Model
2KS56
See reverse for custom models selection



Specifications

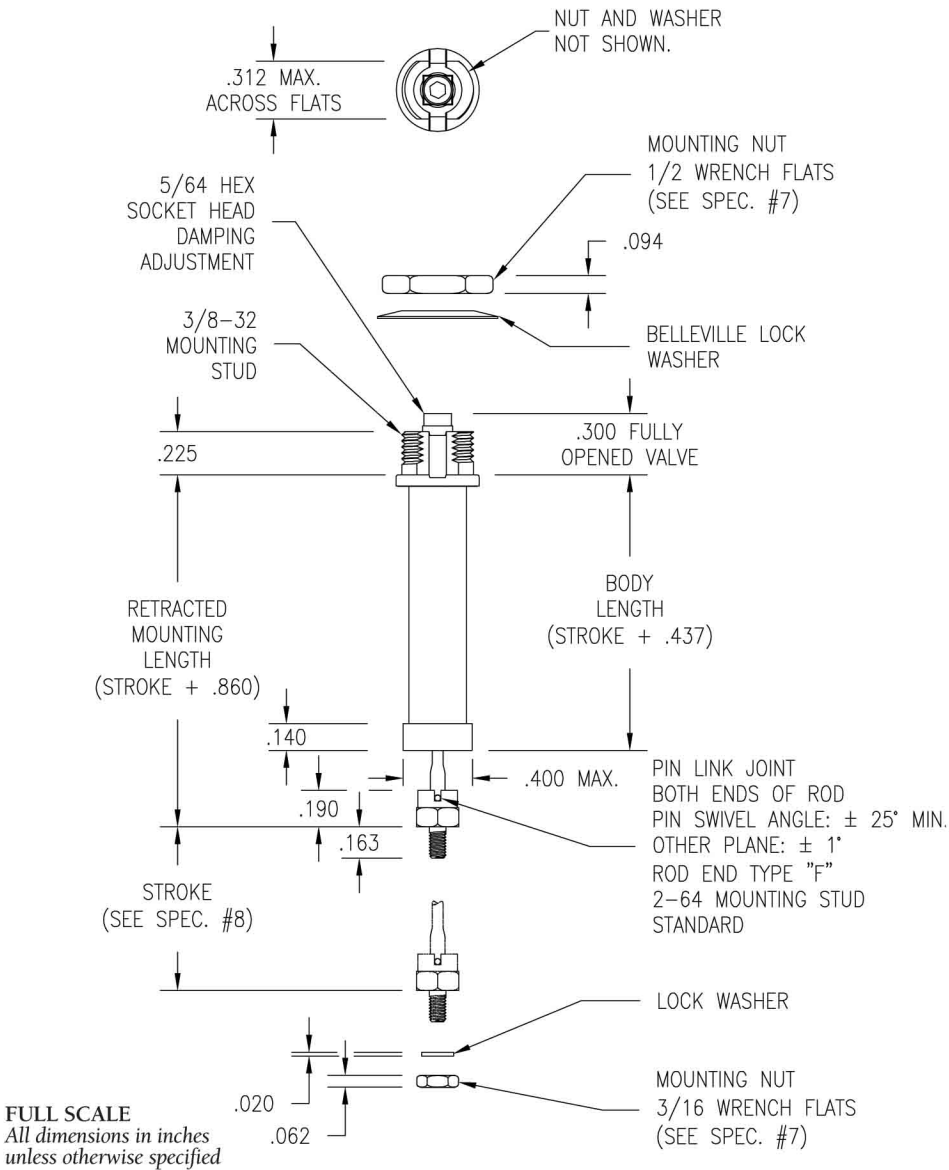
Bore: .220" (5.59 mm)

PERFORMANCE

- 1. **Damping Coefficient**
0–1.0 lb/(in/s) adjustable
0–0.16 N/(mm/s)
- 2. **Force Guidelines**
Pull Damping: .50 lb max (2.22 N)
Push Damping: .35 lb max (1.55 N)
- 3. **Friction**
Coefficient: 0.2
Force without side load: < 1 g
- 4. **Operating Temperature Range**
-55°C to +150°C
If operating at temperatures above +70°C, please advise factory.

MOUNTING DATA

- 5. **Mounting Hole**
Rectangular: .312" x .375" or 8 mm x 10 mm
Round: .375" or 10 mm
- 6. **Suggested Mounting Bracket Thickness**
.060"–.125" (1.52–3.18 mm)
- 7. **Mounting Nut Torque**
Head: 4–8 in-lb (0.45–0.90 Nm)
Rod End: 1–3 in-lb (0.11–0.34 Nm)
- 8. **Stroke**
Full stroke is obtained with customer held mounting tolerance of ± .015" (0.38 mm).



Stock Part Description Fill in the blank boxes at the right with choices from the list below. Example: Model 2KS 56 A 1.5 N F

	MODEL 2KS56
DAMPING DIRECTION TWO-WAY DAMPING DASHPOT	A
STROKE .5 – 1.0 – 1.5 – 2.0	
ROD TYPE .058 DIA. S.S. – STANDARD	N
ROD END PIN LINK 2-64 THD LOOP WITH .156 ID RULON BUSHING	Choose One F Y

Model

2K56

See reverse for stock models selection



Specifications

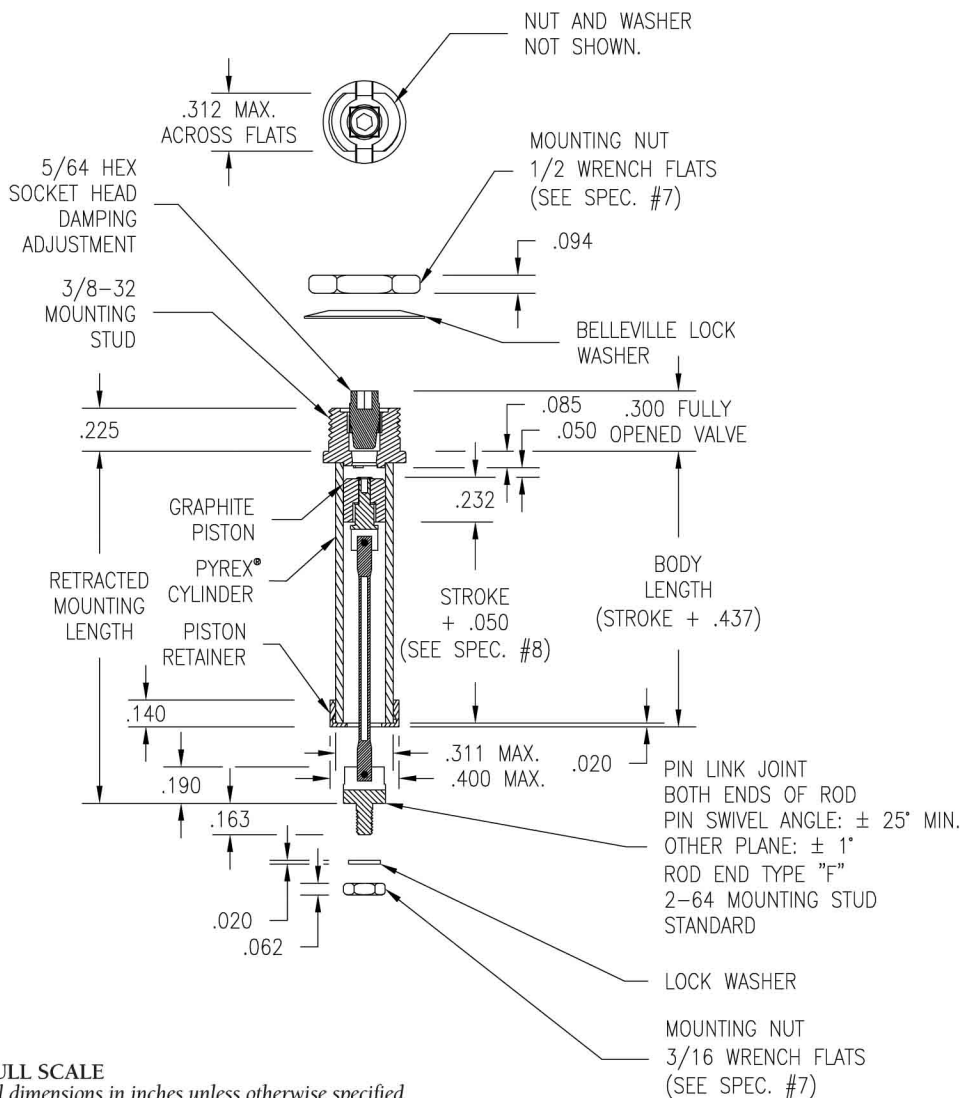
Bore: .220" (5.59 mm)

PERFORMANCE

- Damping Coefficient**
0–0.5 lb/(in/s) adjustable
0–0.088 N/(mm/s)
- Force Guidelines**
Pull Damping: .50 lb max (2.22 N)
Push Damping: .35 lb max (1.55 N)
- Friction**
Coefficient: 0.2
Force without side load: < 1g
- Operating Temperature Range**
–55°C to +150°C
If operating at temperatures above +70°C, please advise factory.

MOUNTING DATA

- Mounting Hole**
Rectangular: .312" x .375" or
8 mm x 10 mm
Round: .375" or 10 mm
- Suggested Mounting Bracket Thickness**
.060"–.125" (1.52–3.18 mm)
- Mounting Nut Torque**
Head: 4–8 in-lb (0.45–0.90 Nm)
Rod End: 1–3 in-lb (0.11–0.34 Nm)
- Stroke**
Full stroke is obtained with customer held mounting tolerance of ± .015" (0.38 mm).

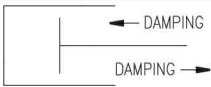
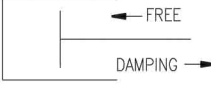
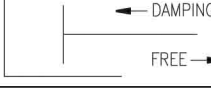
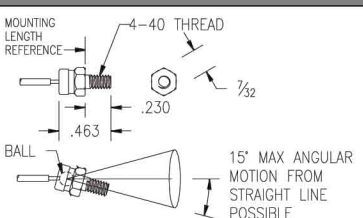
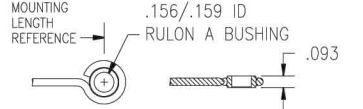
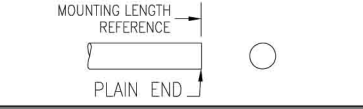
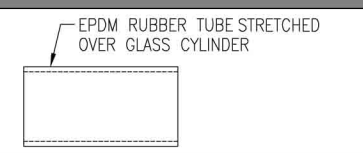
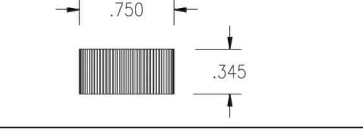
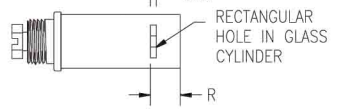


FULL SCALE
All dimensions in inches unless otherwise specified

Custom Part Description Fill in the blank boxes at the right with choices from the list below. Example: Model 2K 56 A 1.5 N F 2.00 K

	MODEL 2K56
DAMPING DIRECTION TWO-WAY DAMPING	A
STROKE MIN = .125 inch Specify increments of 0.125 inch	
ROD TYPE .058 DIA. S.S. – STANDARD	N
ROD END PIN LINK 2-64 THD LOOP WITH .156 ID BUSHING PLAIN.....	Choose One F Y W
RETRACTED MOUNTING LENGTH MINIMUMS BY ROD END TYPE Specify to x.xxx F 1.360 Y 1.360 W 1.360	
OTHER OPTIONS EPDM PROTECTIVE CASE SIDE PORT (include location i.e. Rx.xxx)	Choose One K R

CONFIGURATION OPTIONS FOR DASHPOT MODELS 2KS95 AND 2K95

	OPTIONS	DRAWING	MODELS		COMMENTS and OTHER SPECIFICATIONS
			STOCK	CUSTOM	
	DASHPOT DAMPING DIRECTION		2KS95	2K95	
A	TWO -WAY		CHOICE	CHOICE	
B	PULL		CHOICE	CHOICE	
C	PUSH		CHOICE	CHOICE	
	STROKE				
	MIN (inch)		0.5	0.125	Please specify to .125 inch for custom models if possible.
	MAX (inch)		2.0	11.0	Please consult factory if longer strokes are required.
	ROD TYPES				
N	.058 DIA. ROD – 304 STAINLESS STEEL		STANDARD	STANDARD	
	ROD ENDS				
F	1/8" BALL UNIVERSAL WITH 4-40 THREAD		CHOICE	STANDARD	
Y	LOOP WITH .156 ID REMOVABLE RULON BUSHING		CHOICE	OPTIONAL	
W	PLAIN END			OPTIONAL	
	MOUNTING LENGTH				
	See Model Spec Sheet for Reference Points and Minimums		PER SPEC SHEET	SPECIFY TO X.XXX	
	ACCESSORIES				
K	IMPACT RESISTANT CASE – EPDM		STANDARD	OPTIONAL	
M	DAMPING ADJUSTMENT KNOB–NYLON		STANDARD	OPTIONAL	Mounting bracket thickness should not exceed .093"
R	CYLINDER PORT (CROSS SLOT)			OPTIONAL	

Model

2KS95

See reverse for custom models selection



Specifications

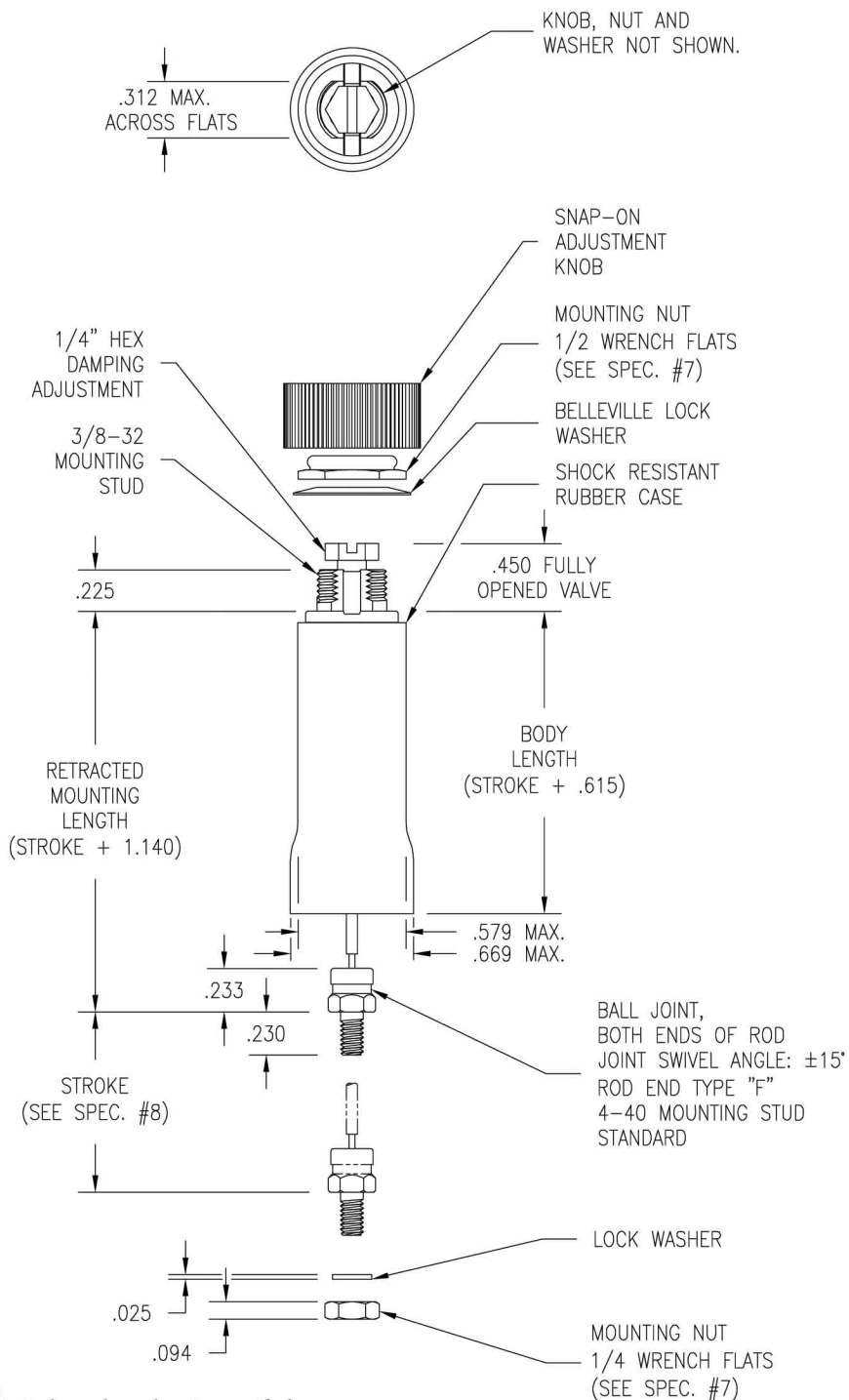
Bore: .366" (9.30 mm)

PERFORMANCE

- Damping Coefficient**
0–2.5 lb/(in/s) adjustable
0–0.44 N/(mm/s)
- Force Guidelines**
Pull Damping: 1.4 lb max (6.23 N)
Push Damping: 1.0 lb max (4.45 N)
- Friction**
Coefficient: 0.2
Force without side load: < 1 g
- Operating Temperature Range**
-55°C to +150°C
If operating at temperatures above +70°C, please advise factory.

MOUNTING DATA

- Mounting Hole**
Rectangular: .312" x .375" or
8 mm x 10 mm
Round: .375" or 10 mm
- Suggested Mounting Bracket Thickness**
.060"–.093" (1.52–2.36 mm)
- Mounting Nut Torque**
Head: 4–8 in-lb (0.45–0.90 Nm)
Rod End: 2–5 in-lb (0.23–0.56 Nm)
- Stroke**
Full stroke is obtained with customer held mounting tolerance of $\pm .015"$ (0.38 mm).



FULL SCALE
All dimensions in inches unless otherwise specified

Stock Part Description Fill in the blank boxes at the right with choices from the list below. Example: Model 2KS 95 A 1.5 N F

		MODEL 2KS95
DAMPING DIRECTION		Choose One
TWO-WAY DAMPING DASHPOT.....	A	
PULL DAMPING DASHPOT.....	B	
PUSH DAMPING DASHPOT.....	C	
STROKE		
.5 – 1.0 – 1.5 – 2.0		
ROD TYPE		
.058 DIA. S.S. – STANDARD.....		N
ROD END		Choose One
BALL UNIVERSAL – 4-40 THD.....	F	
LOOP WITH .156 ID RULON BUSHING.....	Y	

Model
2K95
See reverse for stock models selection

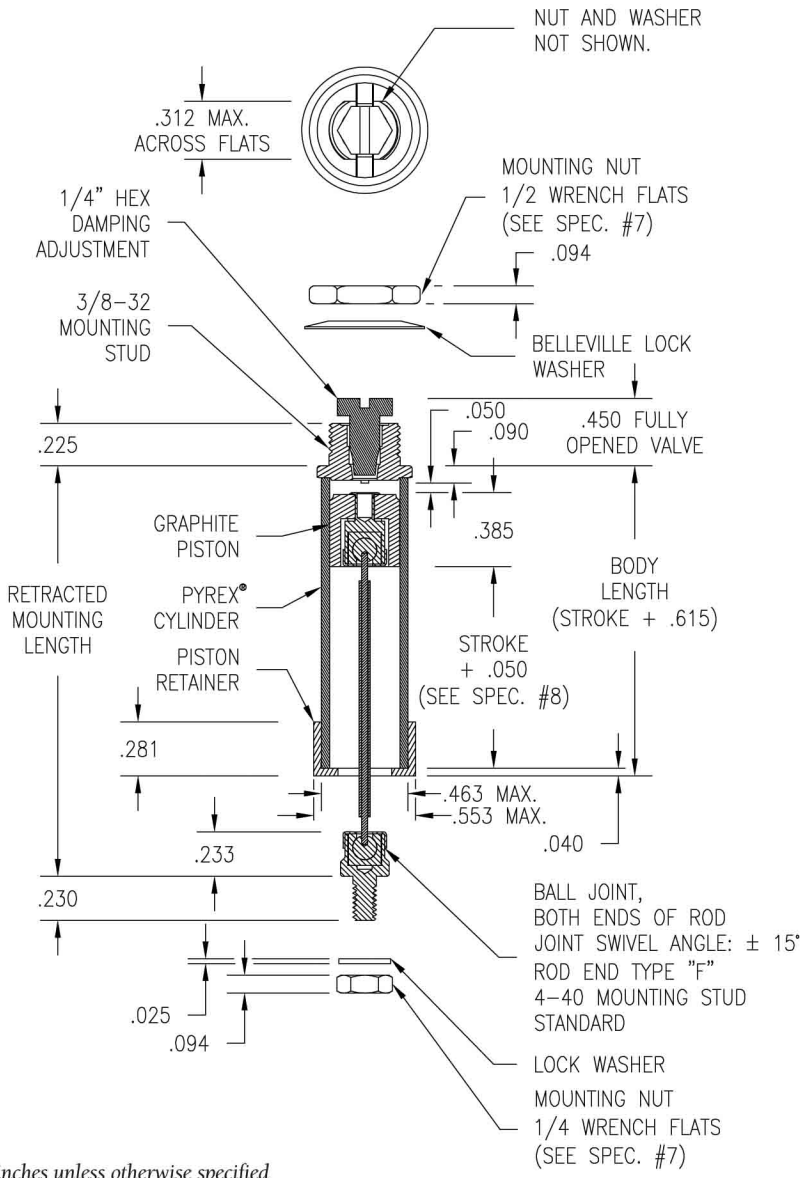


Specifications

- Bore:** .366" (9.30 mm)
- PERFORMANCE**
- Damping Coefficient**
0–2 lb/(in/s) adjustable
0–0.35 N/(mm/s)
 - Force Guidelines**
Pull Damping: 1.4 lb max (6.23 N)
Push Damping: 1.0 lb max (4.45 N)
 - Friction**
Coefficient: 0.2
Force without side load: < 1 g
 - Operating Temperature Range**
-55°C to +150°C
If operating at temperatures above +70°C, please advise factory.

MOUNTING DATA

- Mounting Hole**
Rectangular: .312" x .375" or
8 mm x 10 mm
Round: .375" or 10 mm
- Suggested Mounting Bracket Thickness**
.060"–.125" (1.52–3.18 mm)
- Mounting Nut Torque**
Head: 4–8 in-lb (0.45–0.90 Nm)
Rod End: 2–5 in-lb (0.23–0.56 Nm)
- Stroke**
Full stroke is obtained with customer held mounting tolerance of ± .015" (0.38 mm).

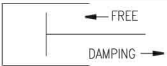
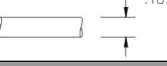
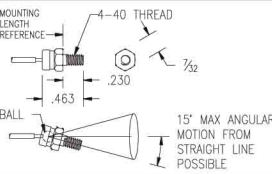
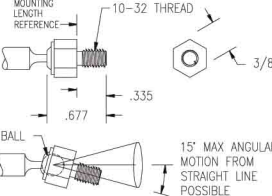
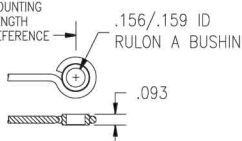
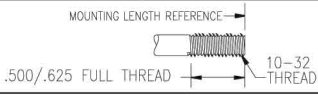
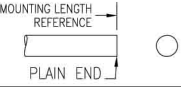
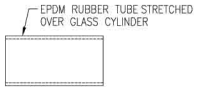
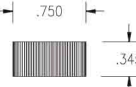
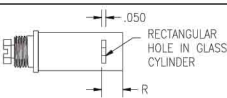


FULL SCALE
All dimensions in inches unless otherwise specified

Custom Part Description Fill in the blank boxes at the right with choices from the list below. Example: Model 2K 95 A 1.5 N F 2.00 K

MODEL 2K95			Choose One
DAMPING DIRECTION			
TWO-WAY DAMPING DASHPOT.....			A
PULL DAMPING DASHPOT.....			B
PUSH DAMPING DASHPOT.....			C
STROKE MIN = .125 inch Specify increments of 0.125 inch			
ROD TYPE			
.058 DIA. S.S. – STANDARD			N
ROD END			Choose One
BALL UNIVERSAL – 4-40 THD			F
LOOP WITH .156 ID RULON BUSHING			Y
PLAIN			W
RETRACTED MOUNTING LENGTH MINIMUMS BY ROD END TYPE Specify to x.xxx			
F	Y	W	
0.950	1.140	0.950	
OTHER OPTIONS			Choose All Needed
EPDM PROTECTIVE CASE			K
ADJUSTMENT KNOB			M
SIDE PORT (include location i.e. Rx.xxx)			R

CONFIGURATION OPTIONS FOR DASHPOT MODELS 2KS160 AND 2KI160

OPTIONS		DRAWING	MODELS		COMMENTS and OTHER SPECIFICATIONS
			STOCK	CUSTOM	
DASHPOT DAMPING DIRECTION			2KS160	2KI160	
A	TWO -WAY		CHOICE	CHOICE	
B	PULL		CHOICE	CHOICE	
C	PUSH		CHOICE	CHOICE	
STROKE					
	MIN (inch)		0.5	0.125	Please specify to .125 inch for custom models if possible.
	MAX (inch)		3.0	13.0	Please consult factory if longer strokes are required.
ROD TYPES					
N	.058 DIA. ROD – 304 STAINLESS STEEL		CHOICE	STANDARD	
T	.187 DIA. ROD – ALUMINUM 2024-T4		CHOICE	OPTIONAL	
ROD ENDS					
F	1/8" BALL UNIVERSAL WITH 4-40 THREAD		CHOICE	STANDARD	Requires Rod Type N.
X	1/4" BALL UNIVERSAL WITH 10-32 THREAD		CHOICE	OPTIONAL	Requires Rod Type T.
Y	LOOP WITH .156 ID REMOVABLE RULON BUSHING		CHOICE	OPTIONAL	Requires Rod Type N.
V	10-32 THREADED PLAIN END			OPTIONAL	Requires Rod Type T.
W	PLAIN END			OPTIONAL	
MOUNTING LENGTH					
	See Model Spec Sheet for Reference Points and Minimums		PER SPEC SHEET	SPECIFY TO X XXX	
ACCESSORIES					
K	IMPACT RESISTANT CASE – EPDM		STANDARD	OPTIONAL	
M	DAMPING ADJUSTMENT KNOB – NYLON		STANDARD	OPTIONAL	Mounting bracket thickness should not exceed .093"
R	CYLINDER PORT (CROSS SLOT)			OPTIONAL	

Model

2KS160

See reverse for custom models selection

**Specifications****Bore:** .627" (15.93 mm)**PERFORMANCE**

- Damping Coefficient**
0–10 lb/(in/s) adjustable
0–1.75 N/(mm/s)
- Force Guidelines**
Pull Damping: 4 lb max (18 N)
Push Damping: 3 lb max (13 N)
- Friction**
Coefficient: 0.2
Force without side load: < 1 g
- Operating Temperature Range**
-55°C to +150°C
If operating at temperatures above +70°C, please advise factory.

MOUNTING DATA

- Mounting Hole**
Rectangular: .312" x .375" or
8 mm x 10 mm
Round: .375" or 10 mm
- Suggested Mounting Bracket Thickness**
.060"–.093" (1.52–2.36 mm)
- Mounting Nut Torque**
Head: 4–8 in-lb (0.45–0.90 Nm)
Rod End: 2–5 in-lb (0.23–0.56 Nm)
- Stroke**
Full stroke is obtained with customer held mounting tolerance of $\pm .015"$ (0.38 mm).

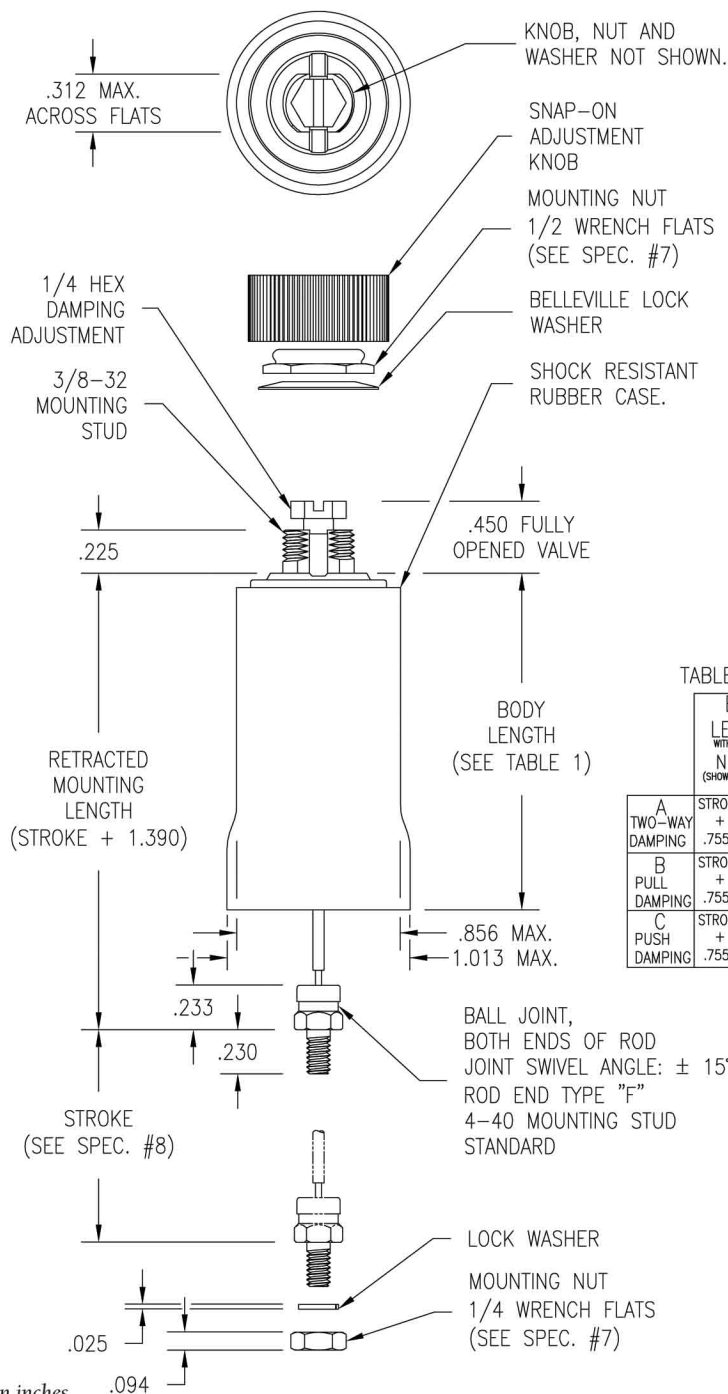


TABLE 1

		BODY LENGTH WITH ROD TYPE	
		N (SHOWN)	T (NOT SHOWN)
A	TWO-WAY DAMPING	STROKE + .755	STROKE + .800
B	PULL DAMPING	STROKE + .755	STROKE + .760
C	PUSH DAMPING	STROKE + .755	STROKE + .781

FULL SCALE
All dimensions in inches
unless otherwise specified

Stock Part Description Fill in the blank boxes at the right with choices from the list below. Example: Model 2KS 160 A 1.5 N F

		MODEL 2KS160
DAMPING DIRECTION TWO-WAY DAMPING DASHPOT..... A PULL DAMPING DASHPOT..... B PUSH DAMPING DASHPOT..... C		Choose One
STROKE .5 – 1.0 – 1.50 – 2.0 – 3.0		
ROD TYPE .058 DIA. S.S. – STANDARD..... N .187 DIA. ALUMINUM..... T		Choose One
ROD END BALL UNIVERSAL – 4-40 THD (requires Rod Type N)..... F LOOP WITH .156 ID RULON BUSHING (requires Rod Type N)..... Y BALL UNIVERSAL – 10-32 THD (requires Rod Type T)..... X		Choose One

Model

2K160

See reverse for stock models selection



Specifications

Bore: .627" (15.93 mm)

PERFORMANCE

- Damping Coefficient**
0–5 lb/(in/s) adjustable
0–0.88 N/(mm/s)
- Force Guidelines**
Pull Damping: 4 lb max (18 N)
Push Damping: 3 lb max (13 N)
- Friction**
Coefficient: 0.2
Force without side load: < 1 g
- Operating Temperature Range**
–55°C to +150°C
If operating at temperatures above +70°C, please advise factory.

MOUNTING DATA

- Mounting Hole**
Rectangular: .312" x .375" or
8 mm x 10 mm
Round: .375" or 10 mm
- Suggested Mounting Bracket Thickness**
.060"–.125" (1.52–3.18 mm)
- Mounting Nut Torque**
Head: 4–8 in-lb (0.45–0.90 Nm)
Rod End: 2–5 in-lb (0.23–0.56 Nm)
- Stroke**
Full stroke is obtained with customer held mounting tolerance of $\pm .015"$ (0.38 mm).

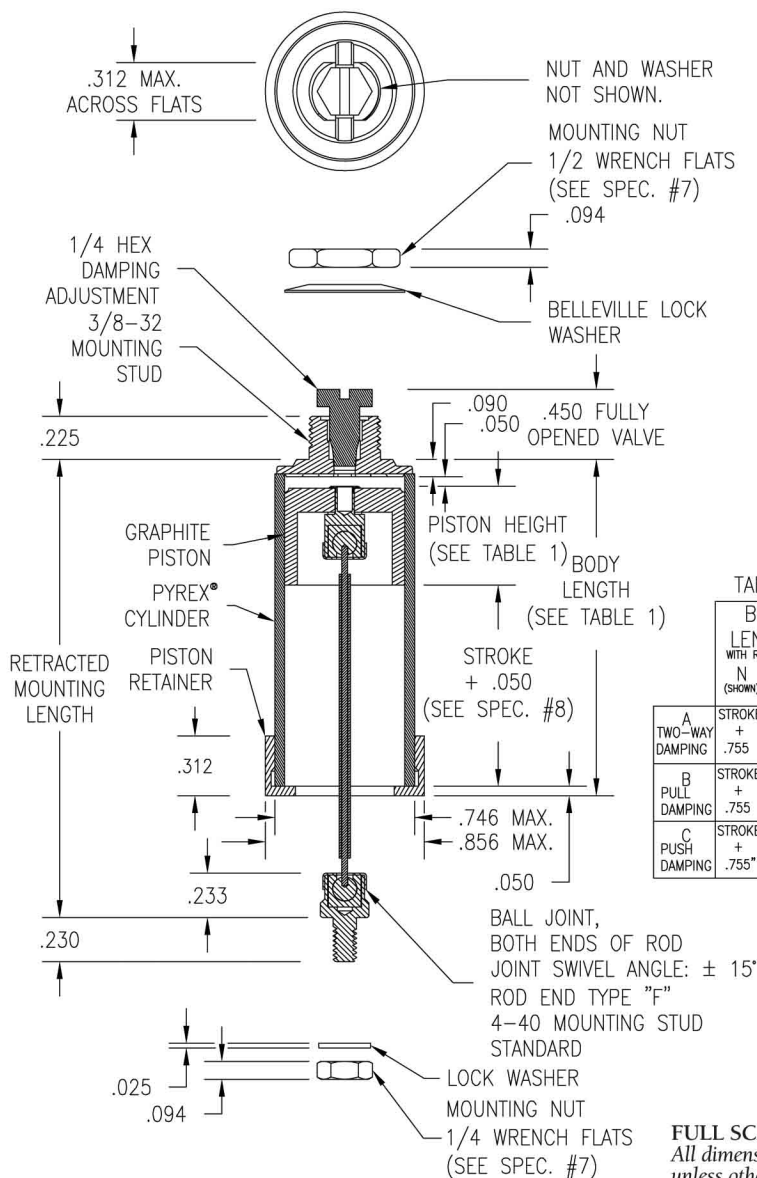


		TABLE 1	
		BODY LENGTH WITH ROD TYPE	PISTON HEIGHT WITH ROD TYPE
A	TWO-WAY DAMPING	N (SHOWN)	T (NOT SHOWN)
		.755	.800
B	PULL DAMPING	.755	.760
		.755	.760
C	PUSH DAMPING	.755	.781
		.755	.781

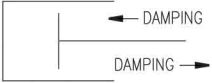
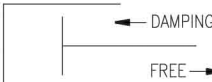
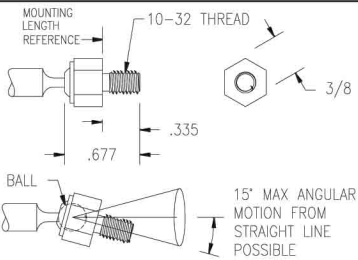
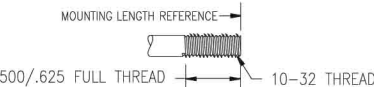
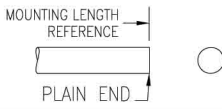
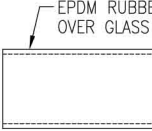
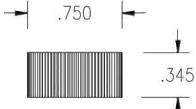
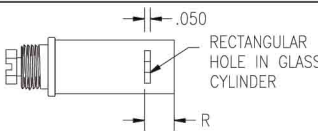
FULL SCALE
All dimensions in inches unless otherwise specified

Custom Part Description Fill in the blank boxes at the right with choices from the list below. Example: Model 2K 160 A 1.5 N F 2.00 K

		MODEL 2K160
DAMPING DIRECTION		Choose One
TWO-WAY DAMPING DASHPOT.....	A	
PULL DAMPING DASHPOT.....	B	
PUSH DAMPING DASHPOT.....	C	
STROKE MIN = .125 inch	Specify increments of 0.125 inch	
ROD TYPE		Choose One
.058 DIA. S.S. – STANDARD.....	N	
.187 DIA. ALUMINUM.....	T	
ROD END		Choose One
BALL UNIVERSAL – 4-40 THD (requires Rod Type N).....	F	
LOOP WITH .156 ID BUSHING (requires Rod Type N).....	Y	
BALL UNIVERSAL – 10-32 THD (requires Rod Type T).....	X	
10-32 THREADED PLAIN END (requires Rod Type T).....	V	
PLAIN.....	W	
RETRACTED MOUNTING LENGTH MINIMUMS BY ROD END TYPE	Specify to x.xxx	
F 0.950	Y 1.140	X 1.880
		V 1.435
		W 1.435
OTHER OPTIONS		Choose All Needed
EPDM PROTECTIVE CASE.....	K	
ADJUSTMENT KNOB.....	M	
SIDE PORT (include location i.e. Rx.xxx).....	R	

CONFIGURATION OPTIONS FOR DASHPOT MODELS 2KS240 AND 2K240

Please see the model specification sheet to define the specific model you require.

	OPTIONS	DRAWING	MODELS		COMMENTS and OTHER SPECIFICATIONS
			STOCK	CUSTOM	
	DASHPOT DAMPING DIRECTION		2KS240	2K240	
A	TWO -WAY		CHOICE	CHOICE	
B	PULL		CHOICE	CHOICE	
C	PUSH		CHOICE	CHOICE	
	STROKE				
	MIN (inch)		0.5	0.125	Please specify to .125 inch for custom models if possible.
	MAX (inch)		3.0	12.0	Please consult factory if longer strokes are required.
	ROD TYPES				
T	.187 DIA. ROD – ALUMINUM 2024-T4		STANDARD	STANDARD	
	ROD ENDS				
X	1/4" BALL UNIVERSAL WITH 10-32 THREAD		STANDARD	STANDARD	
V	10-32 THREADED PLAIN END			OPTIONAL	
W	PLAIN END			OPTIONAL	
	MOUNTING LENGTH				
	See Model Spec Sheet for Reference Points and Minimums		PER SPEC SHEET	SPECIFY TO X.XXX	
	ACCESSORIES				
K	IMPACT RESISTANT CASE – EPDM		STANDARD	OPTIONAL	
M	DAMPING ADJUSTMENT KNOB–NYLON		STANDARD	OPTIONAL	Mounting bracket thickness should not exceed .093"
R	CYLINDER PORT (CROSS SLOT)			OPTIONAL	

Model
2KS240
See reverse for custom models selection



Specifications

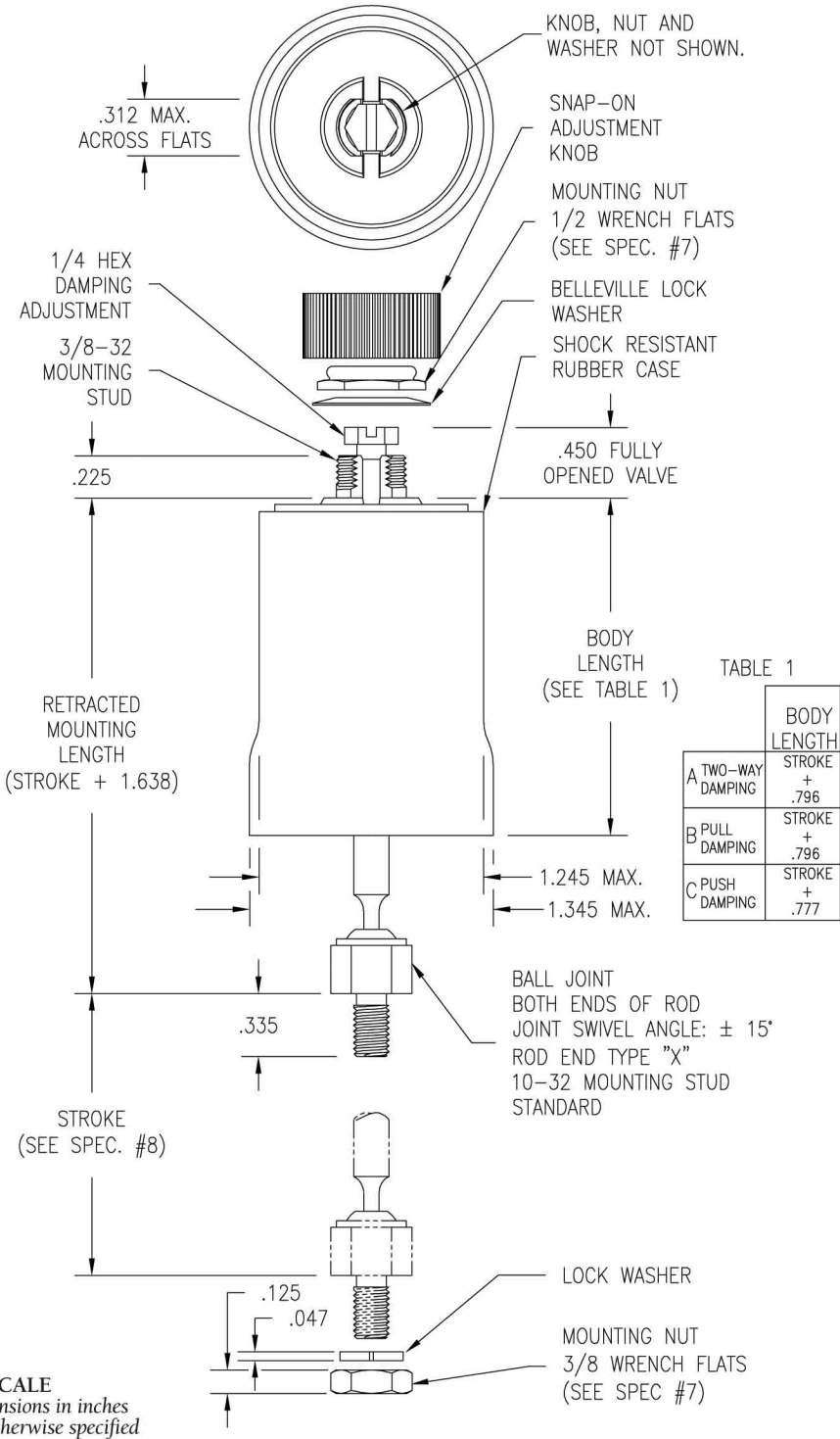
Bore: .945" (24 mm)

PERFORMANCE

- 1. **Damping Coefficient**
0–30 lb/(in/s) adjustable
0–5.25 N/(mm/s)
- 2. **Force Guidelines**
Pull Damping: 9 lb max (40 N)
Push Damping: 7 lb max (31.10 N)
- 3. **Friction**
Coefficient: 0.2
Force without side load: < 1 g
- 4. **Operating Temperature Range**
–55°C to +150°C
If operating at temperatures above +70°C, please advise factory.

MOUNTING DATA

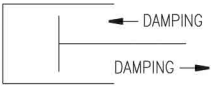
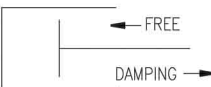
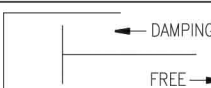
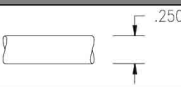
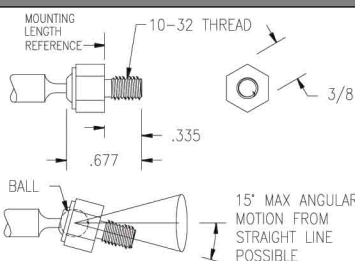
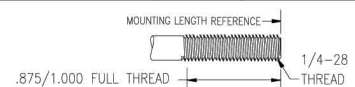
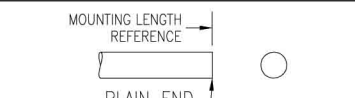
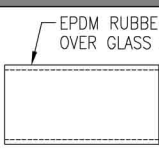
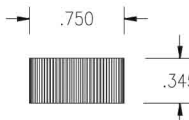
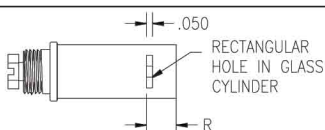
- 5. **Mounting Hole**
Rectangular: .312" x .375" or 8 mm x 10 mm
Round: .375" or 10 mm
- 6. **Suggested Mounting Bracket Thickness**
.060"–.093" (1.52–2.36 mm)
- 7. **Mounting Nut Torque**
Head: 4–8 in-lb (0.45–0.90 Nm)
Rod End: 5–15 in-lb (0.56–1.70 Nm)
- 8. **Stroke**
Full stroke is obtained with customer held mounting tolerance of ± .015" (0.38 mm).



Stock Part Description Fill in the blank boxes at the right with choices from the list below. Example: Model 2KS 240 A .5 T X		MODEL 2KS240
DAMPING DIRECTION TWO-WAY DAMPING DASHPOT..... PULL DAMPING DASHPOT..... PUSH DAMPING DASHPOT.....	A B C	Choose One
STROKE .5 – 1.0 – 2.0 – 3.0		
ROD TYPE .187 DIA. ALUMINUM – STANDARD	T	T
ROD END BALL UNIVERSAL – 10-32 THD – STANDARD	X	X

CONFIGURATION OPTIONS FOR DASHPOT MODELS 2KS325 AND 2K325

Please see the model specification sheet to define the specific model you require.

OPTIONS		DRAWING	MODELS		COMMENTS and OTHER SPECIFICATIONS
			STOCK	CUSTOM	
DASHPOT DAMPING DIRECTION			2KS325	2K325	
A B C	TWO -WAY		CHOICE	CHOICE	
	PULL		CHOICE	CHOICE	
	PUSH		CHOICE	CHOICE	
STROKE					
MIN (inch)			0.5	0.125	Please specify to .125 inch for custom models if possible.
MAX (inch)			3.0	10.0	Please consult factory if longer strokes are required.
ROD TYPES					
T	.250 DIA. ROD – 303 STAINLESS STEEL		STANDARD	STANDARD	
	ROD ENDS				
X V W	1/4" BALL UNIVERSAL WITH 10-32 THREAD		STANDARD	STANDARD	
	1/4-28 THREADED PLAIN END			OPTIONAL	
	PLAIN END			OPTIONAL	
MOUNTING LENGTH					
See Model Spec Sheet for Reference Points and Minimums			PER SPEC SHEET	SPECIFY TO X.XXX	
ACCESSORIES					
K M R	IMPACT RESISTANT CASE – EPDM		STANDARD	OPTIONAL	
	DAMPING ADJUSTMENT KNOB–NYLON		STANDARD	OPTIONAL	
	CYLINDER PORT (CROSS SLOT)			OPTIONAL	

Model

2KS325

See reverse for custom models selection



Specifications

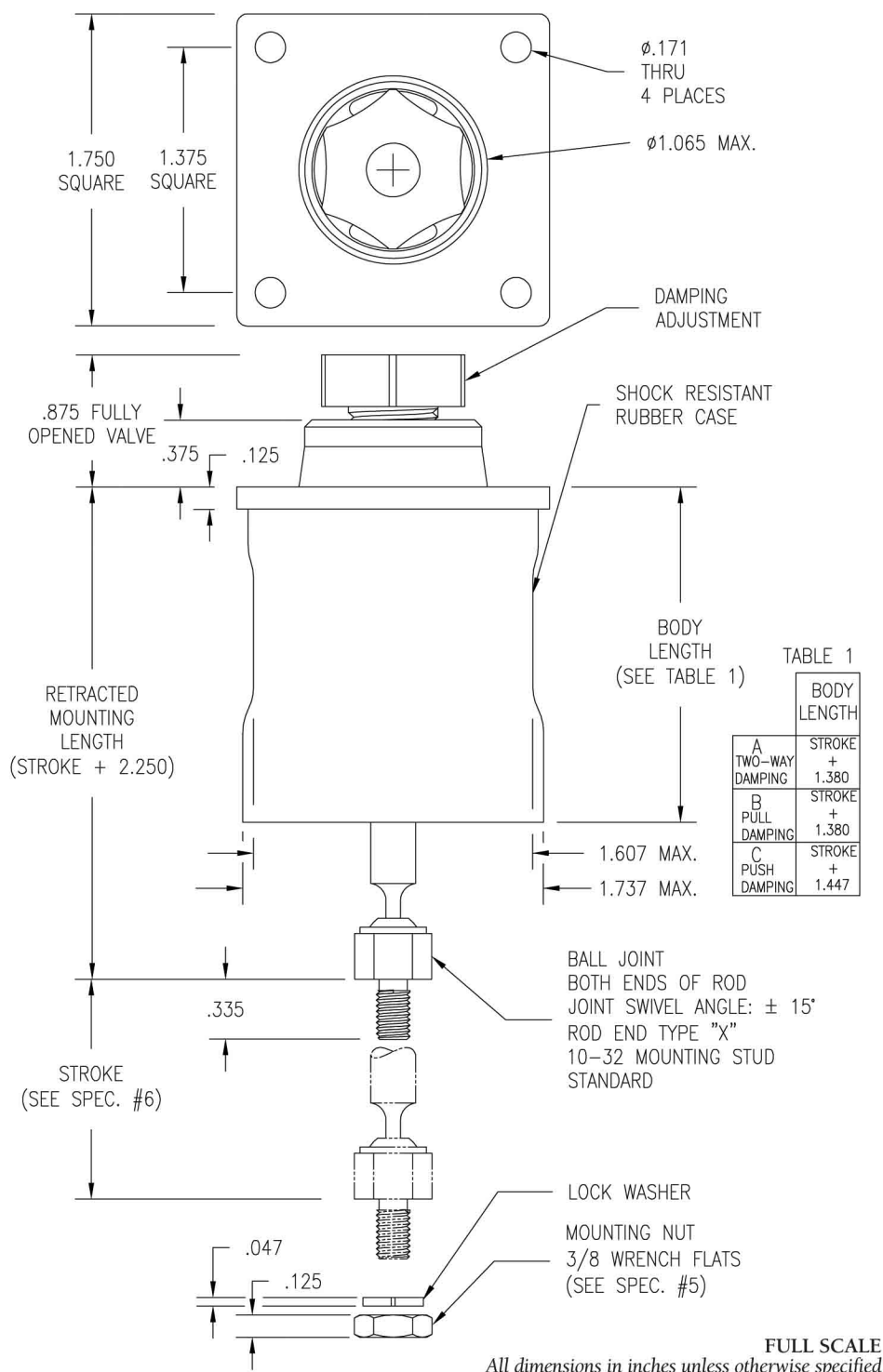
Bore: 1.281" (32.50 mm)

PERFORMANCE

- Damping Coefficient**
0–40 lb/(in/s) adjustable
0–7.0 N/(mm/s)
- Force Guidelines**
Pull Damping: 17 lb max (75.62 N)
Push Damping: 13 lb max (57.83 N)
- Friction**
Coefficient: 0.2
Force without side load: < 4 g
- Operating Temperature Range**
–55°C to +125°C
If operating at temperatures above +70°C, please advise factory.

MOUNTING DATA

- Mounting Nut Torque**
Rod End: 5–15 in-lb (0.56–1.70 Nm)
- Stroke**
Full stroke is obtained with customer held mounting tolerance of $\pm .015"$ (0.38 mm).



Stock Part Description Fill in the blank boxes at the right with choices from the list below. Example: Model 2KS 325 A .5 T X

	MODEL 2KS325
DAMPING DIRECTION TWO-WAY DAMPING DASHPOT..... A PULL DAMPING DASHPOT..... B PUSH DAMPING DASHPOT..... C	Choose One
STROKE .5 – 1.0 – 2.0 – 3.0	
ROD TYPE .250 DIA. S.S. – STANDARD..... T	T
ROD END BALL UNIVERSAL – 10-32 THD – STANDARD..... X	X



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Model
2K325
See reverse for stock models selection



Specifications

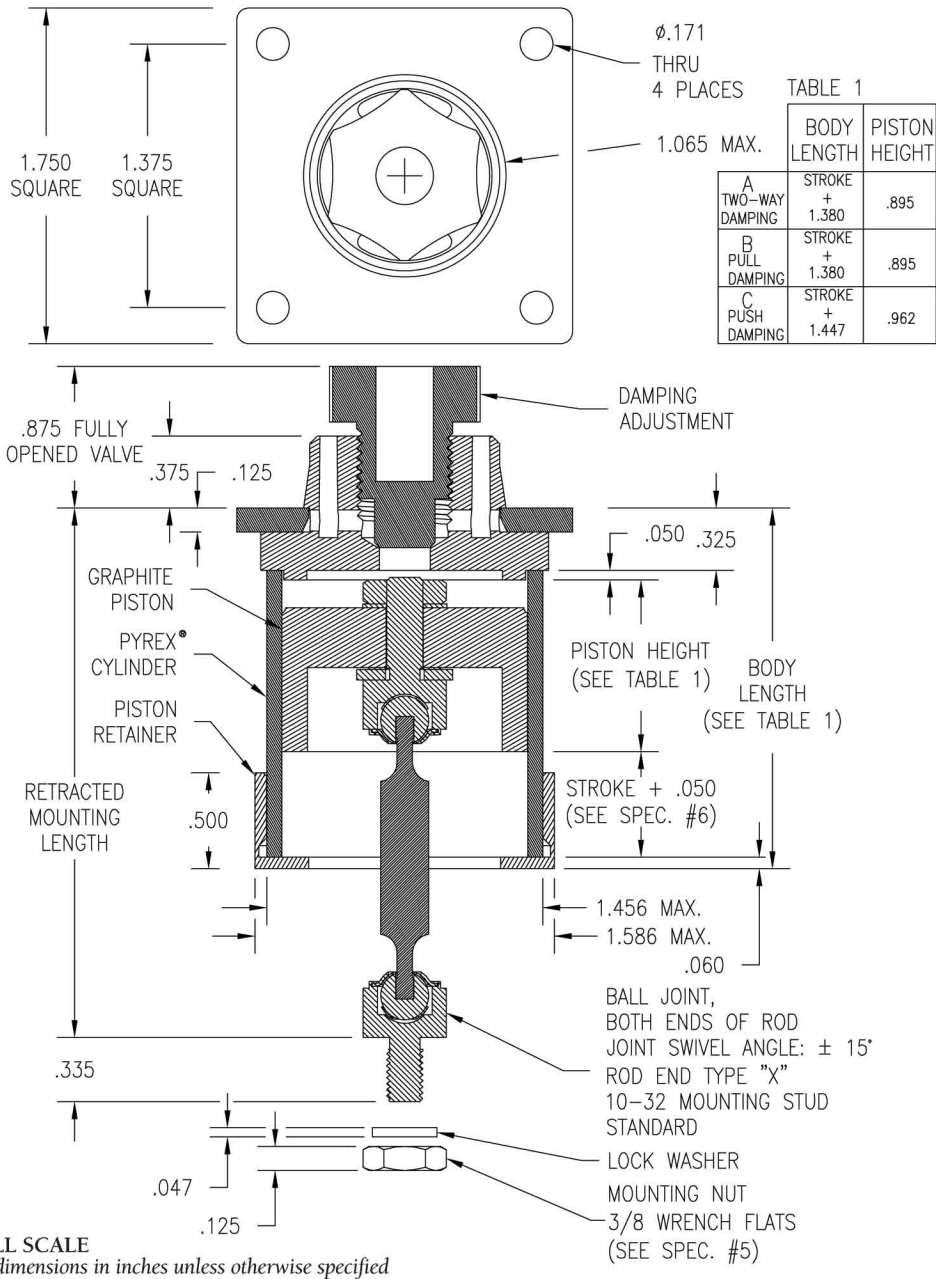
Bore: 1.281" (32.50 mm)

PERFORMANCE

- 1. **Damping Coefficient**
0–40 lb/(in/s) adjustable
0–7.0 N/(mm/s)
- 2. **Force Guidelines**
Pull Damping: 17 lb max (75.62 N)
Push Damping: 13 lb max (57.83 N)
- 3. **Friction**
Coefficient: 0.2
Force without side load: < 4 g
- 4. **Operating Temperature Range**
–55°C to +125°C
If operating at temperatures above +70°C, please advise factory.

MOUNTING DATA

- 5. **Mounting Nut Torque**
Rod End: 5–15 in-lb (0.56–1.70 Nm)
- 6. **Stroke**
Full stroke is obtained with customer held mounting tolerance of ± .015" (0.38 mm).

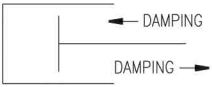
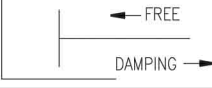
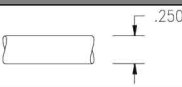
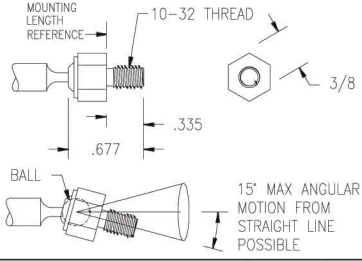
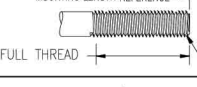
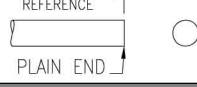
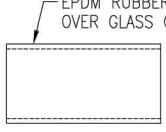
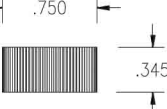
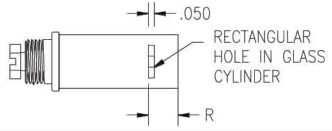


Custom Part Description Fill in the blank boxes at the right with choices from the list below. Example: Model 2K 325 A 1.5 T X 2.00 K

MODEL 2K325	
DAMPING DIRECTION TWO-WAY DAMPING DASHPOT..... PULL DAMPING DASHPOT..... PUSH DAMPING DASHPOT.....	Choose One
STROKE MIN = .125 inch Specify increments of 0.125 inch	
ROD TYPE .250 DIA. S.S. – STANDARD.....	T
ROD END BALL UNIVERSAL – 10-32 THD..... 1/4-28 THREADED PLAIN END..... PLAIN.....	Choose One
RETRACTED MOUNTING LENGTH MINIMUMS BY ROD END TYPE Specify to x.xxx X 2.500 V 2.050 W 2.050	
OTHER OPTIONS EPDM PROTECTIVE CASE..... SIDE PORT (include location i.e. Rx.xxx).....	Choose All Needed

CONFIGURATION OPTIONS FOR DASHPOT MODELS 2KS444 AND 2K444

Please see the model specification sheet to define the specific model you require.

OPTIONS		DRAWING	MODELS		COMMENTS and OTHER SPECIFICATIONS
			STOCK	CUSTOM	
DASHPOT DAMPING DIRECTION			2KS444	2K444	
A	TWO -WAY		CHOICE	CHOICE	
B	PULL		CHOICE	CHOICE	
C	PUSH		CHOICE	CHOICE	
STROKE					
	MIN (inch)		0.5	0.125	Please specify to .125 inch for custom models if possible.
	MAX (inch)		3.0	8.0	Please consult factory if longer strokes are required.
ROD TYPES					
T	.250 DIA. ROD – 303 STAINLESS STEEL		STANDARD	STANDARD	
ROD ENDS					
X	1/4" BALL UNIVERSAL WITH 10-32 THREAD		STANDARD	STANDARD	
V	1/4-28 THREADED PLAIN END			OPTIONAL	
W	PLAIN END			OPTIONAL	
MOUNTING LENGTH					
	See Model Spec Sheet for Reference Points and Minimums		PER SPEC SHEET	SPECIFY TO X.XXX	
ACCESSORIES					
K	IMPACT RESISTANT CASE – EPDM		STANDARD	OPTIONAL	
M	DAMPING ADJUSTMENT KNOB–NYLON		STANDARD	OPTIONAL	
R	CYLINDER PORT (CROSS SLOT)			OPTIONAL	

Model
2KS444
See reverse for custom models selection



Specifications

- Bore:** 1.750" (44.40 mm)
- PERFORMANCE**
- 1. **Damping Coefficient**
0–40 lb/(in/s) adjustable
0–7.0 N/(mm/s)
 - 2. **Force Guidelines**
Pull Damping: 30 lb max (133.45 N)
Push Damping: 24 lb max (106.76 N)
 - 3. **Friction**
Coefficient: 0.2
Force without side load: <8g
 - 4. **Operating Temperature Range**
-55°C to +125°C
If operating at temperatures above +70°C, please advise factory.

MOUNTING DATA

- 5. **Mounting Nut Torque**
Rod End: 5–15 in-lb (0.56–1.70 Nm)
- 6. **Stroke**
Full stroke is obtained with customer held mounting tolerance of ± .015" (0.38 mm).

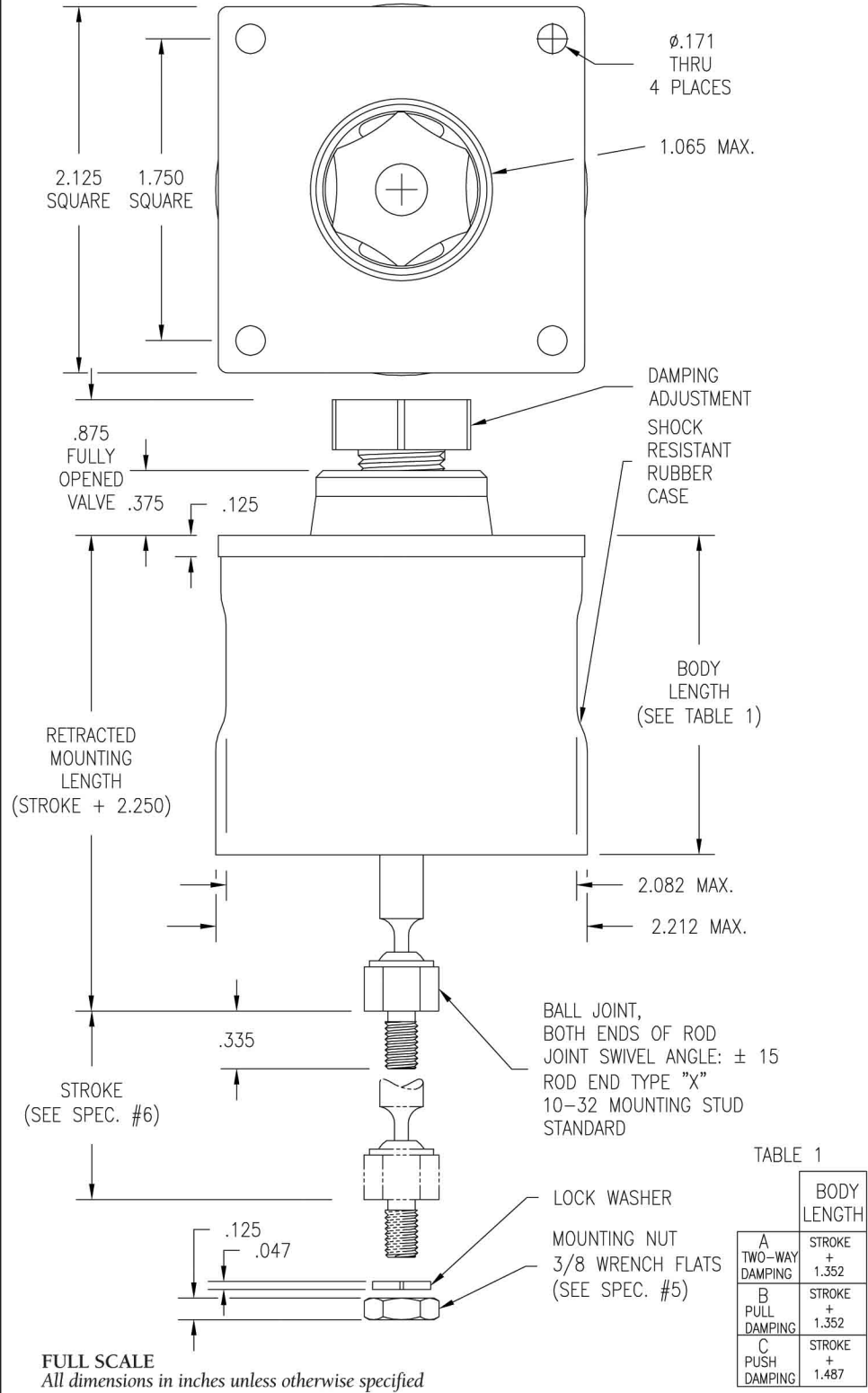


TABLE 1

	BODY LENGTH
A TWO-WAY DAMPING	STROKE + 1.352
B PULL DAMPING	STROKE + 1.352
C PUSH DAMPING	STROKE + 1.487

Stock Part Description Fill in the blank boxes at the right with choices from the list below. Example: Model 2KS 444 A 1.0 T X

	MODEL 2KS444
DAMPING DIRECTION TWO-WAY DAMPING DASHPOT..... A PULL DAMPING DASHPOT B PUSH DAMPING DASHPOT C	Choose One
STROKE .5 – 1.0 – 2.0 – 3.0	
ROD TYPE .250 DIA. S.S. – STANDARD T	T
ROD END BALL UNIVERSAL – 10-32 THD X	X

Model
2K444
See reverse for stock models selection



Specifications

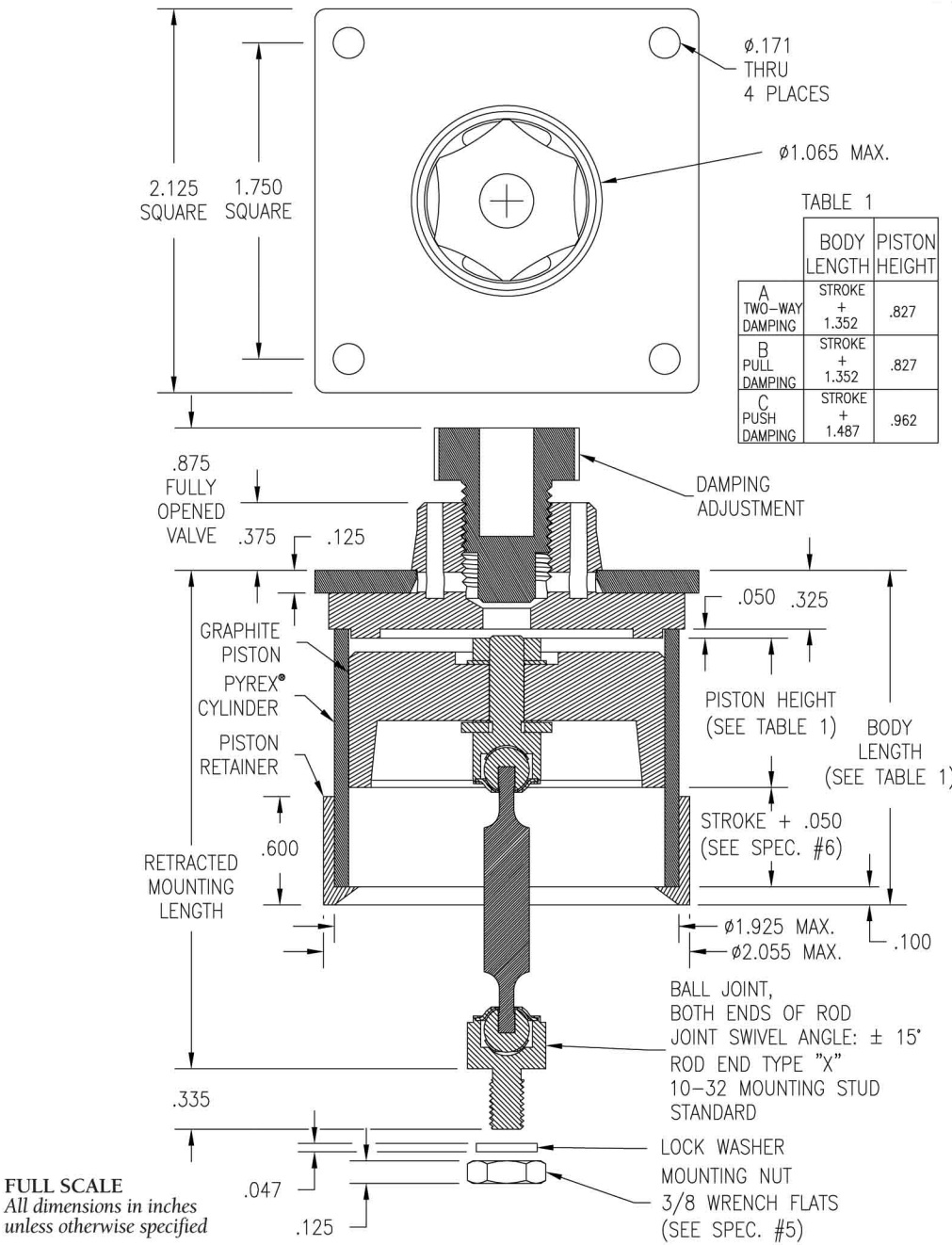
Bore: 1.750" (44.4 mm)

PERFORMANCE

- 1. **Damping Coefficient**
0-40 lb/(in/s) adjustable
0-7.0 N/(mm/s)
- 2. **Force Guidelines**
Pull Damping: 30 lb max (133.45 N)
Push Damping: 24 lb max (106.76 N)
- 3. **Friction**
Coefficient: 0.2
Force without side load: <8 g
- 4. **Operating Temperature Range**
-55°C to +125°C
If operating at temperatures above +70°C, please advise factory.

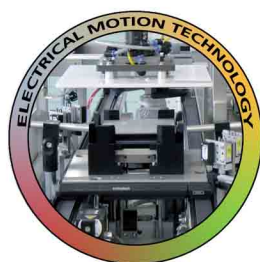
MOUNTING DATA

- 5. **Mounting Nut Torque**
Rod End: 5-15 in-lb (0.56-1.70 Nm)
- 6. **Stroke**
Full stroke is obtained with customer held mounting tolerance of ± .015" (0.38 mm).



Custom Part Description Fill in the blank boxes at the right with choices from the list below. Example: Model 2K 444 A 1.5 T X 2.00 K

	MODEL 2K444
DAMPING DIRECTION TWO-WAY DAMPING DASHPOT..... A PULL DAMPING DASHPOT..... B PUSH DAMPING DASHPOT..... C	Choose One
STROKE MIN = .125 inch Specify increments of 0.125 inch	
ROD TYPE .250 DIA. S.S. - STANDARD..... T	T
ROD END BALL UNIVERSAL - 10-32 THD X 1/4-28 THREADED PLAIN END V PLAIN W	Choose One
RETRACTED MOUNTING LENGTH MINIMUMS BY ROD END TYPE Specify to x.xxx X 2.500 V 2.050 W 2.050	
OTHER OPTIONS EPDM PROTECTIVE CASE K SIDE PORT (include location i.e. Rx.xxx) R	Choose All Needed



We look forward to your application.

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