

L Series

Steel Spring Vibration Isolators

Features/ Benefits

- Load Ranges from 50 to 23,000 lbs.
- Available in 6 sizes
- Reduces vibration, shock and noise transmission
- Durable gray cast iron housings
- Fully adjustable snubbing (Types LK & LI)
- External or internal levelling adjustment

Advantages

Series L Vibration Isolators are the most versatile vibration control mountings available. They are offered in several standard versions; in addition, special modifications are available at nominal extra charges.

Level Adjustment: Regular, external adjustment (type LK and LN) for the majority of installations or internal adjustment (type LI and LO) are standard. The types LI and LO have internal adjustment which permits their location anywhere, irrespective of availability or location of bolt holes in the machine base or concrete foundation (see arrangements on next page). The size J is available with internal adjustment only.

Adjustment Bolt: Standard bolt will pass through 2" machine leg. Longer bolts for thicker legs are available.

Snubber Adjustment: Fully adjustable snubbing by means of end nuts is standard for LK and LI isolators; for size A, adjustment is slightly different from arrangement shown. LN and LO have non-adjustable inserts for alignment purposes, without any snubbing action; they can be converted to LK and LI in the field.

Snubber Inserts: Oil-resistant synthetic rubber is standard for all sizes and styles (except for size A which uses sponge rubber).

Springs: Oil-tempered high carbon steel is standard. Special: Softer springs for lighter loads, stainless steel or coated springs for corrosion resistance. All springs are color coded for easy identification and supplied with a new powder coated finish as standard for improved corrosion resistance.

Housing Materials: All housings except for H and J sizes are durable cast grey iron per ASTM A48 as standard. The H and J housings are of welded steel construction.

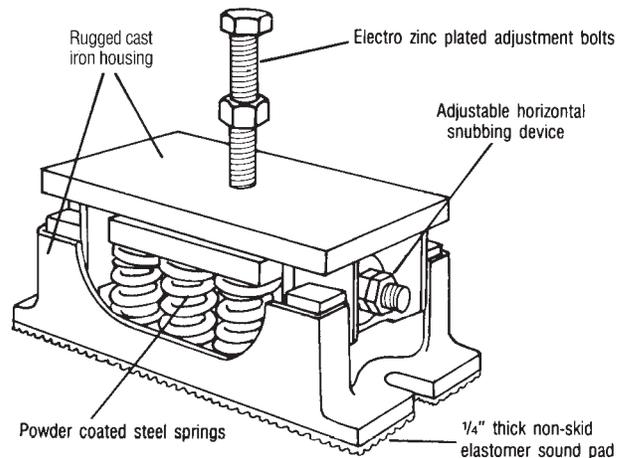
Fastening To Floor: Base plate with slotted bolt holes and bonded synthetic rubber sound pad and isolation washers for bolting to floor, are standard.

Fastening To Machine: Single bolt is standard on types LK, and LN isolators. Synthetic rubber sound pad cemented to top plate is standard on types LI and LO which have no standard provision for bolting; however, one tapped hole will be furnished without charge upon request. Special: extra tapped holes in top plate for bolting.



Sound Damping: For maximum noise absorption, Korfund waffle-embossed synthetic rubber pads are included as standard as indicated above.

Protective Coatings: Vista Green enamel and electro-plated bolts and nuts are standard.



Ordering Designations

Interior Designations			TOP AND BOTTOM PLATE PADS
Type	Levelling	Snubbing	
LK	External	Adjustable	ALL ISOLATORS SUPPLIED WITH SOUND PAD CEMENTED TO BASE PLATE. LI & LO ISOLATOR TOP PLATES WITHOUT TAPPED HOLES FURNISHED WITH RUBBER SOUND PADS
LI	Internal	Adjustable	
LN	External	Non-Adjustable	
LO	Internal	Non-Adjustable	

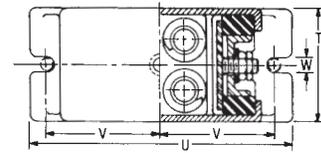
Example LNA-45 = External levelling, non-adjustable snubbing. "A" size housing. #45 spring, rubber pad, and isolation washers for bolted arrangement.



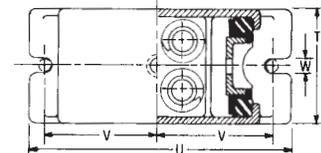
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L Series / continued

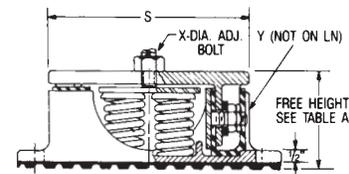
ISOLATOR		MAX. CAPACITY IN POUNDS (2)		ISOLATOR CONSTANT LBS./INCH (3)	FREE HEIGHT (5) INCHES		MINIMUM WORKING HEIGHT (4)	QUANTITY OF SPRINGS
HOUSING SIZE	SPRING NUMBER (1)	MAX. STEADY	MAX. IMPACT		LK & LN	LI & LO		
A	50	50	—	25	5 1/2"	6"	4 7/8"	1
	51	125	—	62.5				
	52	200	—	120				
	53	300	—	190				
	54	500	—	345				
	55	700	—	560				
	56	1,200	—	1,650				
	45	325	260	440	4 7/8"	4 7/8"	4 7/8"	
	46	450	360	800				
	47	600	480	1,225				
57	1,100	825	2,130					
	68	1,300	1,225	2,650		5"		
D	50	100	—	50	5 3/4"	6 1/2"	4 1/2"	2
	51	250	—	125				
	52	400	—	240				
	53	600	—	380				
	54	1,000	—	690				
	55	1,400	—	1,120				
	56	2,400	—	3,300				
	45	650	520	880	4 3/8"	5 1/8"	4 1/2"	
	46	900	720	1,600				
	47	1,200	960	2,450				
57	2,200	1,650	4,260					
	68	2,600	2,450	5,300	4 3/4"	5 1/2"		
E	50	200	—	100	5 7/8"	6 7/8"	4 3/8"	4
	51	500	—	250				
	52	800	—	480				
	53	1,200	—	760				
	54	2,000	—	1,380				
	55	2,800	—	2,240				
	56	4,800	—	6,600				
	45	1,300	1,040	1,760	4 3/8"	5 1/2"	4 1/2"	
	46	1,800	1,440	3,200				
	47	2,400	1,920	4,900				
57	4,400	3,300	8,520					
	68	5,200	4,900	10,600	5"	5 7/8"		
G	50	450	—	225	6 1/4"	7 1/4"	4 3/4"	9*
	51	1,125	—	563				
	52	1,800	—	1,080				
	53	2,700	—	1,710				
	54	4,500	—	3,105				
	55	6,300	—	5,040				
	56	10,800	—	14,850				
	45	2,925	2,340	3,960	4 3/4"	5 3/4"	4 1/2"	
	46	4,000	3,200	7,200				
	47	5,400	4,320	11,025				
57	9,900	7,425	19,160					
	68	11,700	11,025	23,850	5 1/4"	6 1/4"		
H	756	11,450	8,580	17,320	7 1/4"	8 3/8"	6 3/4"	6
	757	13,370	10,000	20,200			LKH	7
	758	15,300	11,460	23,090			7 3/4"	8
	759	17,200	12,900	25,970			LIH	9
J	7512	22,900	17,160	34,640		8 3/4"	8 1/4"	12



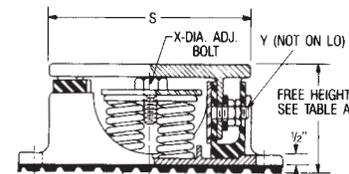
TYPICAL PLAN VIEW OF THE TYPES LK & LI ISOLATOR, SIZE E SHOWN



TYPICAL PLAN VIEW OF THE TYPES LN & LO ISOLATOR, SIZE E SHOWN



TYPICAL ELEVATION VIEW OF THE TYPES LK & LN ISOLATOR, SIZE E SHOWN



TYPICAL ELEVATION VIEW OF THE TYPES LI & LO ISOLATOR, SIZE E SHOWN

Dimensions (inches)

Dimen. Letter	Isolator Housing Size					
	A	D	E	G	H	J
S	4	6 1/2	9 1/2	11 1/2	11 1/2	13 3/4
T	2 1/2	5	5	7	7	7
U	6 1/2	9 1/2	11 1/4	14	14	16 1/4
V	2 3/4	4	5 1/2	6 1/4	6 1/4	7 1/2
W	3/16	3/16	1 1/16	1 3/16	1 3/16	1 3/16
X	1/2	3/8	3/4	1	1 1/4*	1*
Y	3/16	3/8	3/8	3/4	3/4	3/4

*Adjusting Rod LIH 1" Diameter

**LIJ Furnished with two internal Adjustment Bolts

Spring Color Code for Easy Identification

Spring No.	Color	Spring No.	Color
50	Yellow	45	Brown
51	Orange	46	Red
52	Brown	47	Purple
53	Black	57	Blue
54	Green	68	Green
55	Blue	75	Pink
56	Purple		

(1) First 2 digits indicate spring designation number. Additional digits, if any, indicate quantity of springs used. Different springs may be combined in an isolator for special conditions; for example, LKE 552-562 has two #55 and two #56 springs.

(2) Ratings listed under "STEADY" are maximum for steady running applications (no impact). Ratings listed under "IMPACT" are maximum for impact applications on punch presses, hammers, and pulverizers.

(3) Static spring deflection in inches = load ÷ isolator constant.

(4) Minimum operating height = free height – spring deflection, or dimension shown in referenced column, whichever is greater.

(5) Free height tolerance ± 1/4 inch.

*7 or 8 springs may be used for special conditions.



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