



# Shock and Vibration Damping Components

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

**Catalog V100**

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# Introduction

Designatronics, Inc., with its divisions and subsidiaries, has been involved since 1960 in the manufacture and distribution of different mechanical and electronic components.

Advanced Antivibration Components (AAC) is the division of Designatronics devoted to marketing products exclusively related to elimination of vibration, energy absorption and protection of components and devices from shock and possible destruction.

This is, today, an extremely important field, since instrumentation and recording devices are playing more and more important roles in our daily lives. These devices are becoming miniaturized and portable and, as a result, are becoming exposed to unexpected hazards.

In addition, different rotating machinery, moving vehicles, machine tools, household appliances, etc. all require vibration control to eliminate undesirable effects that they may cause to their surroundings.

The understanding of the subject of Vibration and Shock requires some amount of theoretical knowledge of the theories which govern its causes and subsequent propagation. For this reason, an extensive Technical Section, which includes solved problems, is included in this publication.

This handbook contains the broadest offering available from a single source related to antivibration products. In order to facilitate the selection of the proper product, an attempt was made to classify and present the products in an especially organized sequence.

Furthermore, since our company is continuously providing services to the Design, Engineering and Manufacturing segments for the last 44 years, we are keenly aware of the fact that immediate availability of components is usually required. Therefore, all items shown in this catalog are available from stock.

I wish to acknowledge and to congratulate our Engineering staff and our Graphic Communications Department for organizing and producing this handbook in such an extensive, attractive and explicit manner.

Martin Hoffman  
*President*  
DESIGNATRONICS INC.



# Unique Features of This Catalog

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- 1) Our sister division, SDP, started marketing Vibration Mounts in its first catalog published in 1971. It contained only 24 pages of this type of product. Subsequently, in 1978, a special separate volume: *Handbook of Vibration Mounts* was published. It contained a brief Technical Section, but it reached a 55-product page size. The importance of this product line kept growing and, as a result of it, in 1990 the *Vibration and Shock Mount Handbook* was published. It contained a 52-page Technical Section and 89 pages of products. More than 15,000 copies were distributed. Subsequently, the Vibration Mount product line became section 8 in the joint SDP/SI inch and metric catalogs.
- 2) Feedback from our Engineering, as well as Marketing Departments, indicated that for proper marketing of this product line an extensive Technical Section is needed, which was not available in the joint SDP/SI Catalogs. In addition to this, many new product lines related to vibration elimination became available worldwide. These facts gave rise to the publishing of this catalog in order to provide proper support and marketing capabilities, and ADVANCED ANTIVIBRATION COMPONENTS Company was created as a separate Division of Designatronics Inc.
- 3) In order to provide a revised and broadened Technical Section, we availed ourselves of the services of Eugene Rivin, Professor and Director of the Machine Tool

Laboratory at Wayne State University, Detroit, Michigan. He is a Fellow of the American Society of Mechanical Engineers and of the Society of Manufacturing Engineers, and an Active Member of the International Institution for Production Engineering Research (CIRP). He is the holder of 21 US patents and has authored many books and technical articles, some of which are listed below.

- 4) Our previous catalogs included only conventionally known vibration elimination components. This catalog also features shock absorbers and shaft couplings capable of elimination of shock and vibration from shaft to shaft.
- 5) There are catalogs of this type of product circulated; however, the uniqueness of this catalog is its breadth and versatility. In addition to this, all products featured are available from stock for immediate delivery. This feature is extremely important for new designs where prototype testing is an imperative.
- 6) In addition to the listed stock items, tooling is available for many types and sizes of cylindrical vibration mounts. These are available with metric or inch size studs. In spite of the fact that only small prototype quantities may be required, specially low setup charges will be made for this type of order. For quote requests for these "out of stock" type mounts, please use the numbering system and procedure shown on the next page.

Title	Publisher Publication	Pages	ISBN Number
<i>Mechanical Design of Robots</i>	McGraw Hill, August, 1987	325	70529922
<i>Stiffness and Damping in Mechanical Design</i>	Marcel Dekker, May, 1999	512	824717228
<i>Passive Vibration Isolation</i>	ASME Press, July, 2003	432	079180187X
<i>The Science of Innovation</i>	TRIZ Group, 1997	80	0965835901



# Sales Conditions

[www.vibrationmounts.com](http://www.vibrationmounts.com) Phone: 516.328.3662 Fax: 516.328.3365

## Ordering by phone: 516-328-3662

Please call our sales department Monday to Friday between 9 am and 5 pm Eastern time to place an order. Our staff will also be able to provide you with price and stock status for all catalog items. For larger production quantities, we can fax you a written quote of price and delivery.

## Ordering by mail:

2101 Jericho Turnpike, Box 5416  
New Hyde Park, NY 11042-5416

## Ordering by fax: 516-328-3365

## Ordering by e-mail:

[aacsupport@vibrationmounts.com](mailto:aacsupport@vibrationmounts.com)

Please specify part numbers, quantities, desired method of shipment and delivery dates in your request when using the ordering methods above. Orders are promptly processed by our Sales Department.

## Domestic Sales Conditions

### Open Account Orders:

A minimum order is \$50 plus shipping charges. Orders requiring any type of special handling or certification are subject to additional charge. Terms: Net 30 days, F.O.B. New Hyde Park

### Credit Card Orders:

For your convenience, we accept VISA®, Mastercard®, American Express®, Optima®, Discover® and Diners Club®. You will be billed for merchandise and freight when parts are shipped, subject to credit card approval. A minimum order is \$50 plus shipping charges.

### Credit:

New accounts having a satisfactory rating will receive open credit terms; otherwise, initial orders may be on a credit card or a C.O.D. basis pending credit approval. C.O.D. orders are subject to an additional handling charge.

### Methods of Shipment:

U.P.S., FedEx, DHL, or as specified by customer.

### Returns and Exchanges:

All returns and exchanges must have prior written approval. Returns must be made within 15 days after receipt of material. Returned merchandise will be inspected and a charge will be made for restocking. No credit will be allowed on used or modified parts, or catalog parts purchased on a quantity basis. Notification of any shortages must be reported within 10 days after receipt of goods.

### Note:

Price and specifications are subject to change without notice. Every effort has been made to provide accurate technical and product information. The company disclaims responsibility for any error or omission in the accuracy of the technical and product information published.

## International Sales Conditions

### Minimum Order:

\$75 with a \$10 charge for our standard export handling; i.e., \$85 minimum billing. If the order exceeds \$100, there is no export handling charge made.

### Large Quantity Order:

Considerable discounts are made available for large quantity orders. Please request a quote for price and delivery.

### Open Account Orders:

If you have an open account, we will ship and bill you, net 30 days, F.O.B. New Hyde Park, NY.

### Credit Card Orders:

For your convenience, we accept VISA®, Mastercard®, American Express®, Optima®, Discover® and Diners Club®. You will be billed for merchandise and freight when parts are shipped, subject to credit card approval. A minimum order is \$85 plus shipping charges.

### Credit:

Purchase orders accompanied by Bank References will be shipped on open credit terms. Otherwise, an irrevocable letter of credit or prepayment is requested.

### Methods of Shipment:

U.P.S., FedEx, DHL, or as specified by customer.

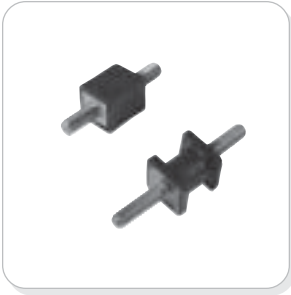
### Returns and Exchanges:

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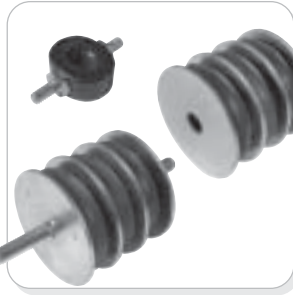
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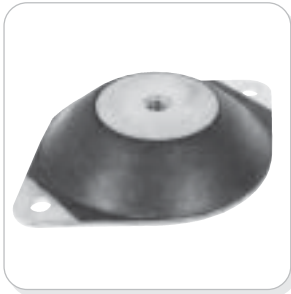
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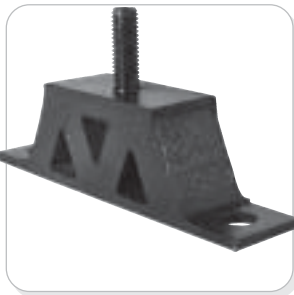
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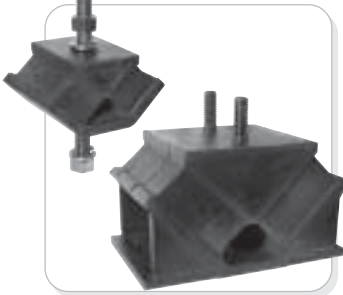
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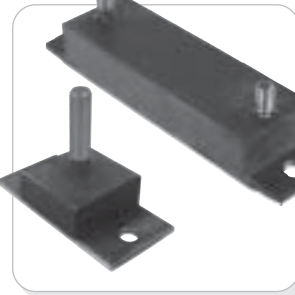
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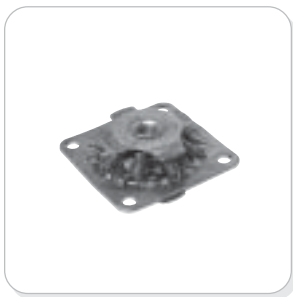
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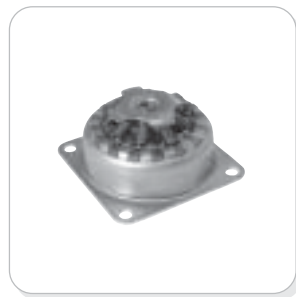
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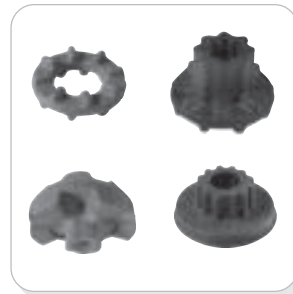
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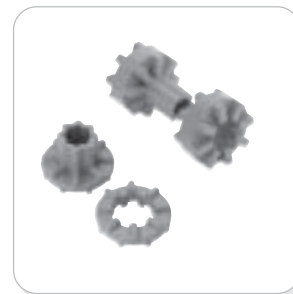
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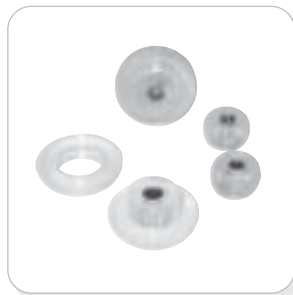
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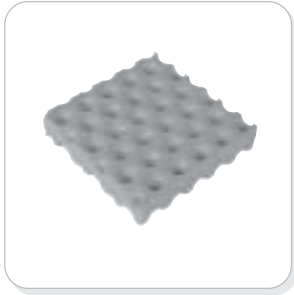
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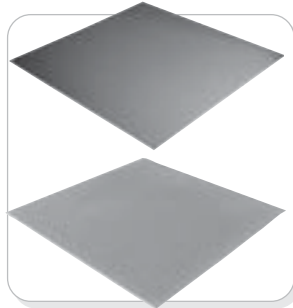


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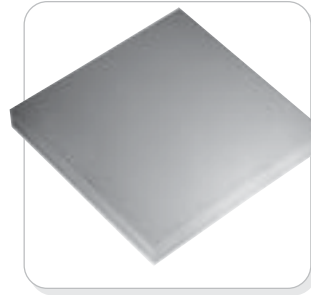
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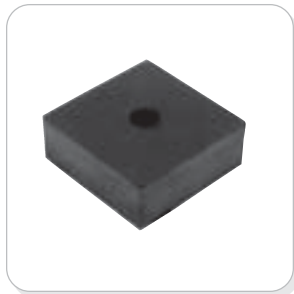
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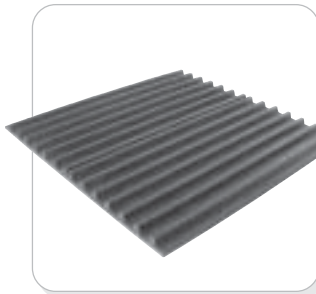
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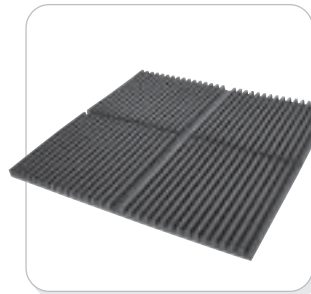
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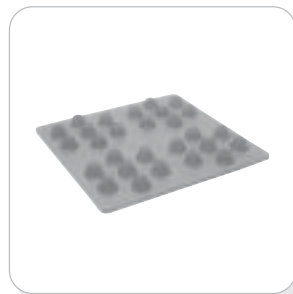
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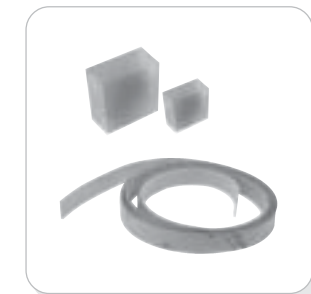
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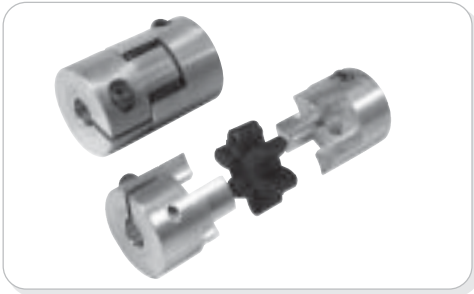
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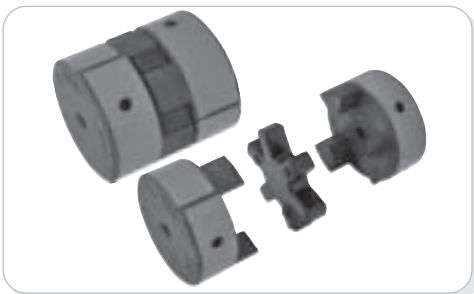
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V10R 4-1507..	7-6	V10Z 4-1552..	2-10	V10Z59MFB...	1-32	V20S45M150..	6-20		
V10R 4-1508..	7-7	V10Z 4-1553..	2-10	V10Z59-MM...	1-31	V20S45M150L..	6-21		
V10R 4-1509..	7-7	V10Z 5-110C	6-10	V10Z59MMB...	1-32	V21S01M...10	6-14		



# Listing of Additional Cylindrical Mounts

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

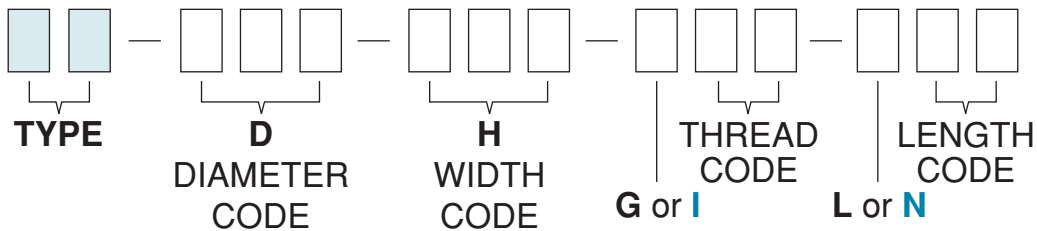
## HOW TO CREATE AN INQUIRY

If you don't see the sizes you want in the product section of this catalog, please send us a request for quote using the coding system shown below to specify the size.

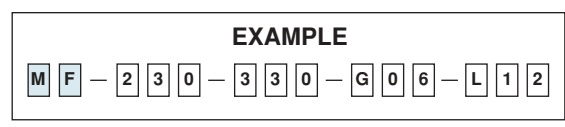
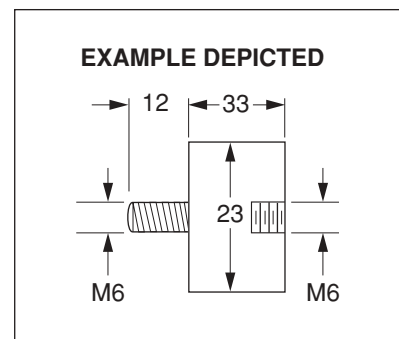
Please Note: 1) If any inquiry is received for a size combination for which exact tooling is not available, the next closest size will be quoted.

2) **D** and **H** dimensions remain metric irrespective of the studs being inch or metric.

3) For metric studs use letter **G** for thread size and letter **L** for length whereas for inch size studs, use letter **I** for thread size and letter **N** for length.



Type	Description	Standard Dimensions Available													
		D		H		G		I		L		N LENGTH IN 1/16"			
		mm	DIA. CODE	mm	WIDTH CODE	mm	THREAD CODE	INCH	THREAD CODE	mm	LENGTH CODE	INCH	LENGTH CODE		
MM		6	060	6	060	M3	03	#4-40	03	5	05	3/16	03		
		8	080	7	070	M4	04	#6-32	04	6	06	1/4	04		
		10	100	7.5	075	M5	05	#8-32	05	10	10	5/16	05		
		10.5	105	8	080	M6	06	#10-32	06	12	12	3/8	06		
		11	110	8.5	085	M8	08	1/4-20	08	15	15	1/2	08		
		13	130	9	090	M10	10	5/16-16	10	16	16	9/16	09		
		14.3	143	9.5	095	M12	12	1/2-12	11	20	20	5/8	10		
		15	150	9.6	096	M16	16	5/8-11	12	23	23	3/4	12		
		16	160	10	100	M20	20	3/4-10	16	28	28	1	16		
		18	180	11	110			3/8-16	20	37	37	1-1/4	20		
MF		19	190	12	120					38	38	1-1/2	28		
		20	200	12.3	123					47	47	2	32		
		23	230	12.7	127										
		25	250	13	130										
		30	300	15	150										
		32	320	16	160										
		35	350	17	170										
		38	380	18	180										
		40	400	20	200										
		45	450	22	220										
FF		48	480	25	250										
		50	500	26	260										
		60	600	27	270										
		65	650	29	290										
		75	750	30	300										
		80	800	33	330										
		100	A00	35	350										
				38	380										
				40	400										
				45	450										
PM				50	500										
				55	550										
				60	600										
				65	650										
				70	700										
				80	800										
				85	850										
				90	900										
				95	950										
				105	A05										





# Selection Procedure for Rubber Mounts

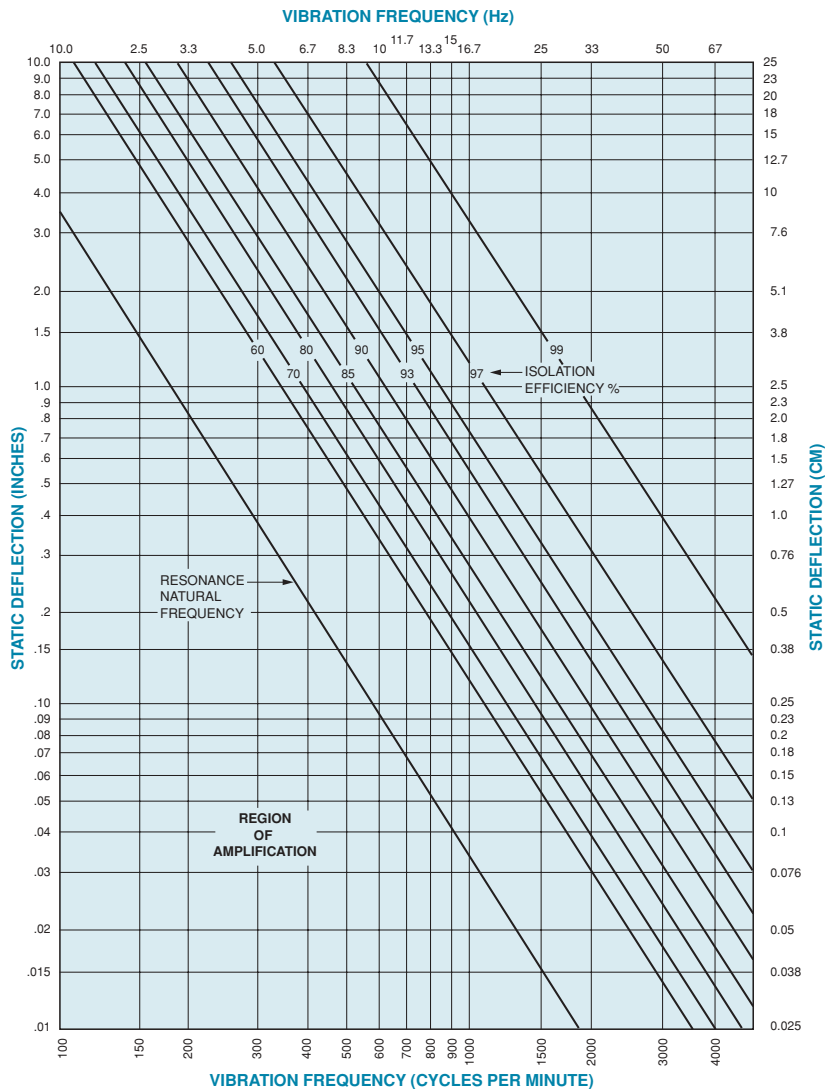
www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

1. Determine the load that each mount will bear when supporting the equipment weight. Total weight divided by the number of mounting positions is the load for each mount. This is only true when having even weight distribution. Otherwise, distribute weight accordingly.
2. Determine the lowest forcing frequency of the vibration source to be supported by the mounts. This is usually equal to the operating speed in revolutions per minute.
3. Choose the percent isolation that will be satisfactory for the purpose. Except for special cases, 81% isolation is generally considered satisfactory.
4. Referring to the Basic Vibration Chart below, find the static deflection for the forcing frequency (Step 2, above) at the chosen percent isolation (Step 3). Note that a mount must give at least this minimum static deflection, with the specific load applied, to provide the desired isolation.
5. Select the mount series with the physical features (shape, attachment facilities, "fail-safe" safety feature, load range, etc.) required by the application.
6.
  - a) Having selected the mount series, refer to the individual styles, and note the styles whose maximum loads are greater than the load each mount is to carry.
  - b) Referring to the load deflection graphs of the styles likely to be chosen, locate the applied load value (Step 1, above) on the appropriate graph; i.e., compression and/or shear.
  - c) Moving horizontally to the right on the graph, locate the point of intersection with the minimum static deflection found in step 4.
  - d) Mounts with curves above this point of intersection cannot be used, as the load (Step 1) is not sufficient to produce the required minimum deflection (Step 4).
  - e) Mounts with curves below the point of intersection can be used as, at the given load, the deflection will be greater than the minimum required. Note, however, that if the applied load is above the line x-x on a curve, the mount is not recommended for this static load.
  - f) More than one style may have load-deflection curves that are suitable. The final selection can depend on other requirements such as the cost of the mounts, possible increased load requirements in the future, relative advantage of additional isolation, space available for the mounts,

constraints on allowable deflection, attachment requirements, etc. However, in the absence of any overriding consideration, usually the mount that is selected has its curve closest to the point of intersection (Step 6c); i.e., the mount with the minimum deflection at the applied load.

7. Select the mount that is designed to operate in your temperature range and environment.

Vibration Frequency vs Static Deflection vs Isolation Efficiency





# Stud & Nut Type Mounts



## SECTION 1

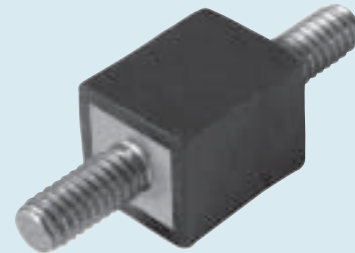
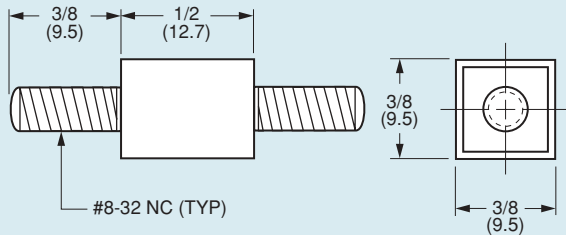


# Square Mounts – To 13.8 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

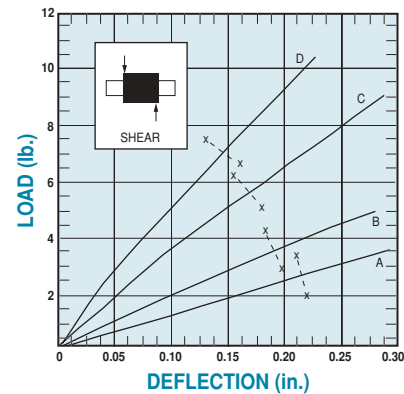
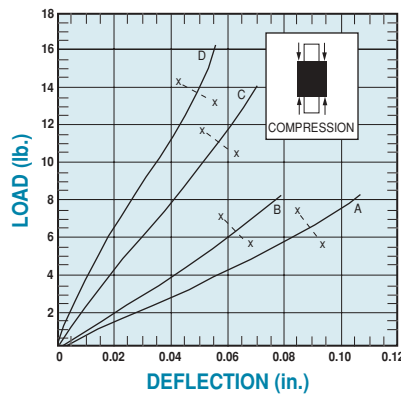
- **FOR COMPRESSION LOADS OF 5.1 TO 13.8 POUNDS (2.3 TO 6.3 kgf)**  
• **FOR SHEAR LOADS OF 2.6 TO 7.1 POUNDS (1.2 TO 3.2 kgf)**



**NOTE:** Dimensions in ( ) are mm.

**NOTE:** Maximum unthreaded portion of stud does not exceed 1/16 inch (1.59 mm).

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Catalog Number	Mode	Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute									
			1100	1250	1500	1750	2000	2250	2500	2750	3000	3600
			Minimum Load for 81% Isolation lb. (kgf)									
V10Z 1-321A	Compression	5.1 (2.3)	—	—	—	5.1 (2.3)	3.9 (1.8)	3.1 (1.4)	2.6 (1.2)	2.1 (1)	1.8 (0.8)	—
	Shear	2.6 (1.2)	2.4 (1.1)	1.8 (0.8)	1.3 (0.6)	.9 (0.4)	.7 (0.3)	.6 (0.27)	*	*	*	*
V10Z 1-321B	Compression	6.4 (2.9)	—	—	—	—	5.5 (2.5)	4.3 (2)	3.4 (1.5)	2.8 (1.3)	2.4 (1.1)	1.8 (0.8)
	Shear	3.6 (1.6)	3.4 (1.5)	2.8 (1.3)	1.9 (0.9)	1.4 (0.6)	1.0 (0.5)	.8 (0.4)	.7 (0.3)	.6 (0.27)	*	*
V10Z 1-321C	Compression	11.1 (5)	—	—	—	—	11.0 (5)	8.7 (3.9)	7.1 (3.2)	6.0 (2.7)	5.1 (2.3)	3.8 (1.7)
	Shear	5.7 (2.6)	—	4.9 (2.2)	3.6 (1.6)	2.9 (1.3)	2.2 (1)	1.8 (0.8)	1.5 (0.7)	1.3 (0.6)	1.1 (0.5)	.9 (0.4)
V10Z 1-321D	Compression	13.8 (6.3)	—	—	—	—	—	12.3 (5.6)	10.3 (4.7)	8.9 (4)	7.7 (3.5)	5.9 (2.7)
	Shear	7.1 (3.2)	—	7.0 (3.18)	5.1 (2.3)	3.9 (1.8)	3.1 (1.4)	2.6 (1.2)	2.1 (1)	1.8 (0.8)	1.6 (0.7)	1.2 (0.54)

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.



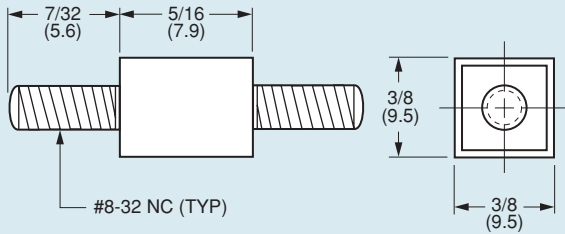


# Square Mounts – To 15.4 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

- **FOR COMPRESSION LOADS OF 6.6 TO 15.4 POUNDS (3 TO 7 kgf)**
- **FOR SHEAR LOADS OF 4.4 TO 9.9 POUNDS (2 TO 4.5 kgf)**

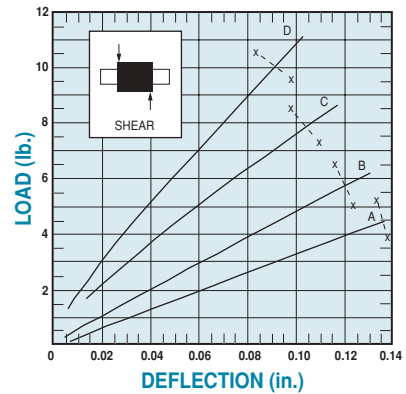
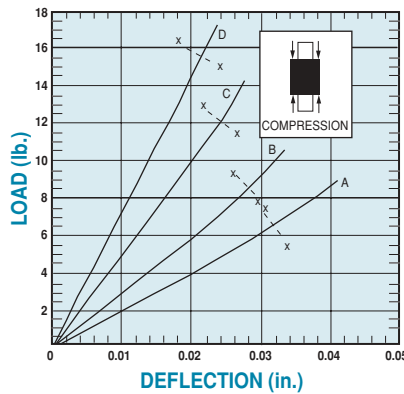


**NOTE:** Dimensions in ( ) are mm.

**NOTE:** Maximum unthreaded portion of stud does not exceed 1/16 inch (1.59 mm).

**LOAD DEFLECTION GRAPHS**

Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Catalog Number	Mode	Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute							
			1500	1750	2000	2250	2500	2750	3000	3600
			Minimum Load for 81% Isolation lb. (kgf)							
V10Z 1-322A	Compression	6.6 (3)	—	—	—	—	—	5.4 (2.5)	4.5 (2)	3.2 (1.5)
	Shear	4.4 (2)	3.3 (1.5)	2.4 (1.1)	1.9 (0.9)	1.5 (0.7)	1.3 (0.6)	1.1 (0.5)	*	*
V10Z 1-322B	Compression	8.7 (4)	—	—	—	—	—	8.5 (3.9)	6.9 (3.1)	4.8 (2.2)
	Shear	5.5 (2.5)	4.8 (2.2)	3.6 (1.6)	2.8 (1.3)	2.2 (1)	1.9 (0.9)	1.6 (0.8)	*	*
V10Z 1-322C	Compression	12.0 (5.4)	—	—	—	—	—	—	11.5 (5.2)	8.0 (3.6)
	Shear	7.8 (3.54)	7.7 (3.5)	6.0 (2.7)	4.9 (2.2)	4.0 (1.8)	3.5 (1.6)	3.1 (1.4)	*	*
V10Z 1-322D	Compression	15.4 (7)	—	—	—	—	—	—	—	11.8 (5.4)
	Shear	9.9 (4.5)	—	8.2 (3.7)	6.7 (3)	5.6 (2.5)	4.7 (2.1)	4.1 (2.1)	*	*

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.

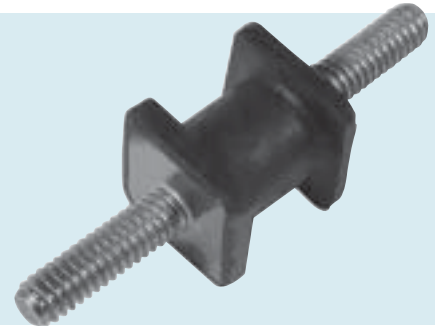
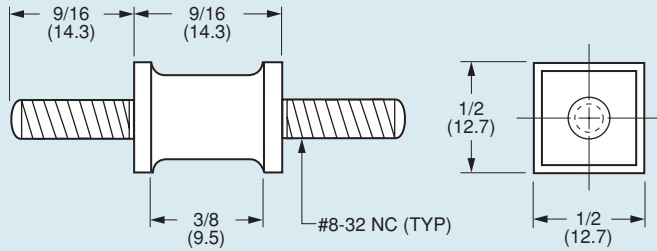


# Square Mounts – To 14.5 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

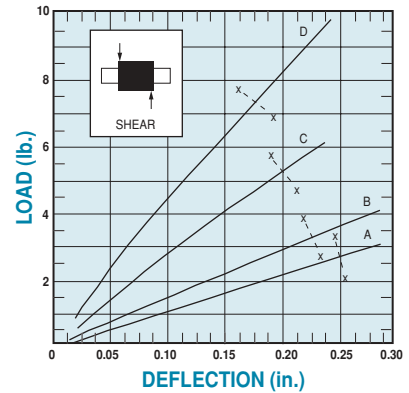
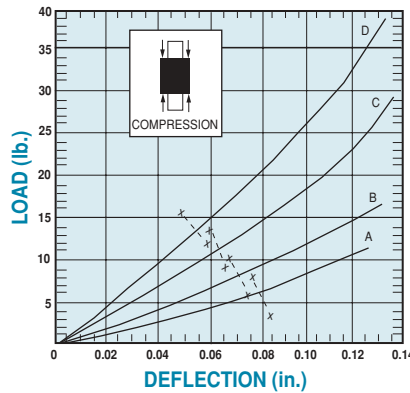
- **FOR COMPRESSION LOADS OF 6.8 TO 14.5 POUNDS (3 TO 6.6 kgf)**  
• **FOR SHEAR LOADS OF 2.8 TO 7.3 POUNDS (1.3 TO 3.3 kgf)**



**NOTE:** Dimensions in ( ) are mm.

**NOTE:** Maximum unthreaded portion of stud does not exceed 1/16 inch (1.59 mm).

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Catalog Number	Mode	Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute							
			950	1100	1250	1500	1750	2000	2250	2500
			Minimum Load for 81% Isolation lb. (kgf)							
V10Z 1-323A	Compression	6.8 (3.1)	—	—	—	—	5.5 (2.5)	3.8 (1.7)	3.0 (1.4)	2.5 (1.1)
	Shear	2.8 (1.3)	2.8 (1.3)	2.2 (1)	1.6 (0.7)	1.1 (0.5)	.9 (0.4)	.7 (0.3)	*	*
V10Z 1-323B	Compression	8.5 (3.9)	—	—	—	—	8.0 (3.6)	6.0 (2.7)	4.5 (2)	3.5 (1.6)
	Shear	3.3 (1.5)	—	2.8 (1.3)	2.1 (0.9)	1.6 (0.7)	1.2 (0.5)	.9 (0.4)	*	*
V10Z 1-323C	Compression	12.0 (5.4)	—	—	—	—	—	10.1 (4.6)	8.5 (3.9)	6.5 (2.9)
	Shear	5.3 (2.4)	—	5.0 (2.3)	4.0 (1.8)	2.9 (1.3)	2.3 (1)	1.9 (0.9)	1.6 (0.7)	*
V10Z 1-323D	Compression	14.5 (6.6)	—	—	—	—	—	14.5 (6.6)	11.5 (5.2)	9.0 (4.1)
	Shear	7.3 (3.3)	—	—	6.2 (2.8)	4.6 (2.1)	3.6 (1.6)	2.9 (1.3)	2.5 (1.1)	2.2 (1)

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.

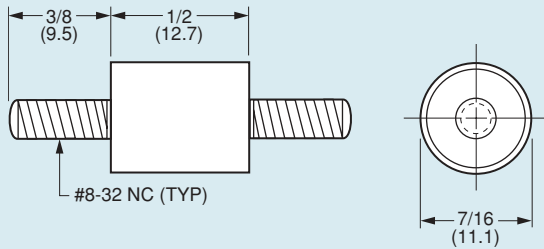


# Cylindrical Mounts – To 13.3 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

• **FOR COMPRESSION LOADS OF 4.9 TO 13.3 POUNDS (2.2 TO 6 kgf)**  
• **FOR SHEAR LOADS OF 2.7 TO 6.4 POUNDS (1.2 TO 2.9 kgf)**



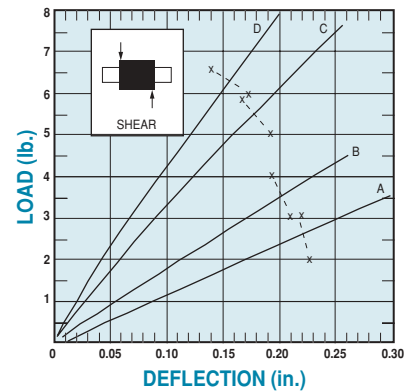
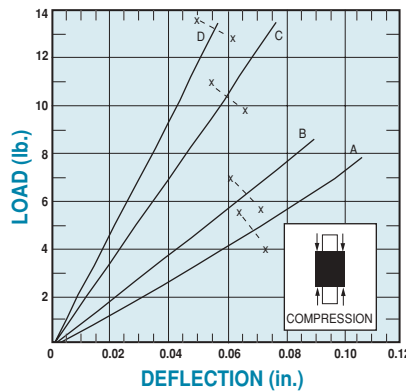
**NOTE:** Dimensions in ( ) are mm.

**NOTE:**

Maximum unthreaded portion of stud does not exceed 1/16 inch (1.59 mm).

**LOAD DEFLECTION GRAPHS**

Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Catalog Number	Mode	Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute									
			1000	1250	1500	1750	2000	2250	2500	2750	3000	3600
			Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-302A	Compression	4.9 (2.2)	—	—	—	—	3.9 (1.8)	3.0 (1.4)	2.4 (1.1)	2.0 (0.9)	1.8 (0.8)	1.0 (0.5)
	Shear	2.7 (1.22)	2.6 (1.2)	1.7 (0.8)	1.2 (0.54)	1.0 (0.5)	.7 (0.3)	.5 (0.2)	*	*	*	*
V10Z 2-302B	Compression	6.4 (2.9)	—	—	—	—	5.3 (2.4)	4.2 (1.9)	3.4 (1.5)	2.9 (1.3)	2.5 (1.1)	1.5 (0.7)
	Shear	3.6 (1.6)	—	2.6 (1.2)	1.9 (0.9)	1.4 (0.6)	1.1 (0.5)	.8 (0.4)	.7 (0.3)	.6 (0.27)	*	*
V10Z 2-302C	Compression	10.4 (4.7)	—	—	—	—	9.8 (4.4)	7.7 (3.5)	6.3 (2.9)	5.2 (2.4)	4.3 (1.9)	2.6 (1.2)
	Shear	5.6 (2.5)	—	4.7 (2.1)	3.2 (1.5)	2.5 (1.1)	1.9 (0.9)	1.5 (0.7)	1.3 (0.6)	1.1 (0.5)	.9 (0.4)	.7 (0.3)
V10Z 2-302D	Compression	13.3 (6)	—	—	—	—	13.1 (5.9)	10.4 (4.7)	8.5 (3.9)	7.0 (3.2)	5.8 (2.6)	4.2 (1.9)
	Shear	6.4 (2.9)	—	6.1 (2.8)	4.4 (2)	3.4 (1.5)	2.7 (1.2)	2.2 (1)	1.8 (0.8)	1.6 (0.7)	1.4 (0.6)	1.0 (0.45)

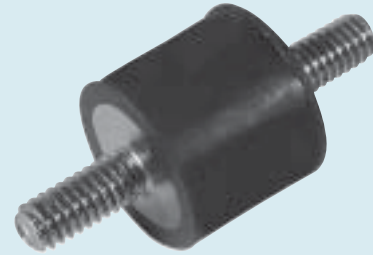
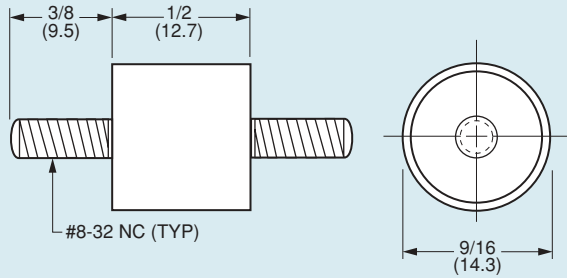
\*At these forcing frequencies, lesser loads will yield less than 81% isolation.



# Cylindrical Mounts – To 25 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Fasteners – Hardened Steel, Zinc Plated  
Isolater – Natural Rubber
- **FOR COMPRESSION LOADS OF 8 TO 25 POUNDS (3.6 TO 11.3 kgf)**
- **FOR SHEAR LOADS OF 4.4 TO 12.5 POUNDS (2 TO 5.7 kgf)**



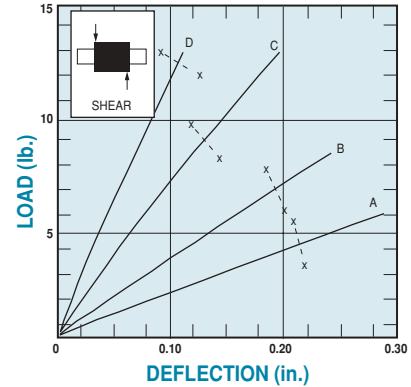
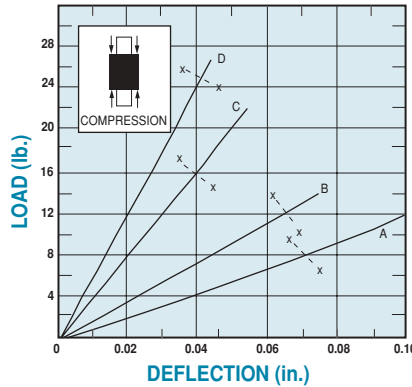
**NOTE:** Dimensions in ( ) are mm.

**NOTE:**

Maximum unthreaded portion of stud does not exceed 1/16 inch (1.59 mm).

**LOAD DEFLECTION GRAPHS**

Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	1000	1250	1500	1750	2000	2250	2500	2750	3000	3600
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-301A	8.0 (3.6)	—	—	—	—	6.2 (2.8)	4.8 (2.2)	4.0 (1.8)	3.2 (1.5)	2.7 (1.2)	2.0 (0.9)
V10Z 2-301B	12.0 (5.4)	—	—	—	—	10.2 (4.6)	8.0 (3.6)	6.5 (2.9)	5.4 (2.4)	4.5 (2)	3.2 (1.5)
V10Z 2-301C	16.0 (7.3)	—	—	—	—	—	—	14.0 (6.4)	11.6 (5.3)	9.6 (4.4)	6.8 (3.1)
V10Z 2-301D	25.0 (11.3)	—	—	—	—	—	—	22.0 (10)	18.2 (8.3)	15.2 (6.9)	10.4 (4.7)

Shear		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	1000	1250	1500	1750	2000	2250	2500	2750	3000	3600
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-301A	4.4 (2)	4.0 (1.8)	3.1 (1.4)	2.2 (1)	1.7 (0.77)	1.3 (0.6)	*	*	*	*	*
V10Z 2-301B	6.7 (3)	6.5 (2.9)	5.2 (2.4)	3.7 (1.7)	2.8 (1.27)	2.3 (1.04)	1.8 (0.82)	*	*	*	*
V10Z 2-301C	9.0 (4.1)	—	9.0 (4.1)	6.3 (2.9)	4.6 (2.1)	3.6 (1.6)	2.9 (1.32)	2.3 (1.04)	1.9 (0.9)	*	*
V10Z 2-301D	12.5 (5.7)	—	—	11.2 (5.1)	8.2 (3.7)	6.3 (2.9)	4.0 (1.8)	4.0 (1.8)	3.3 (1.5)	2.8 (1.3)	2.0 (0.9)

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.

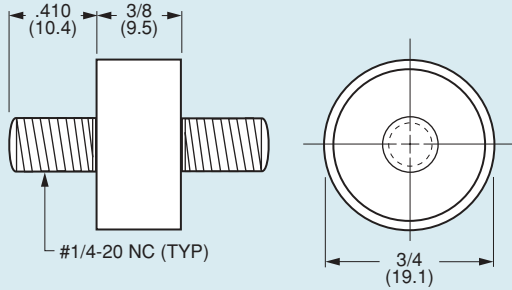


# Cylindrical Mounts – To 28.5 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

• **FOR COMPRESSION LOADS OF 22 TO 28.5 POUNDS (10 TO 12.9 kgf)**  
• **FOR SHEAR LOADS OF 8.4 TO 11.9 POUNDS (3.8 TO 5.4 kgf)**



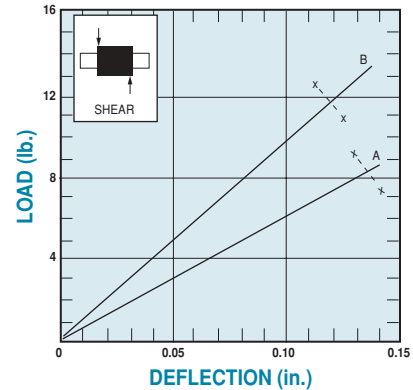
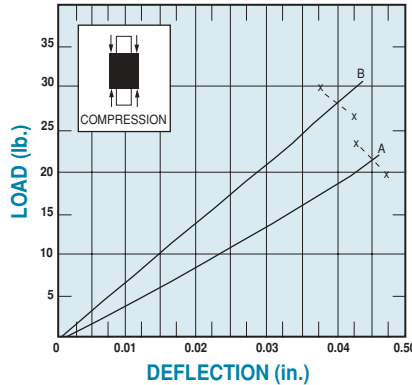
**NOTE:** Dimensions in ( ) are mm.

**NOTE:**

Maximum unthreaded portion of stud does not exceed 1/16 inch (1.59 mm).

**LOAD DEFLECTION GRAPHS**

Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Catalog Number	Mode	Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute						
			1500	1750	2000	2250	2500	3000	3600
			Minimum Load for 81% Isolation lb. (kgf)						
V10Z 2-307A	Compression	22.0 (10)	—	—	—	21.5 (9.8)	16.5 (7.5)	10.5 (4.8)	6.5 (2.9)
	Shear	8.4 (3.8)	6.2 (2.8)	4.7 (2.1)	3.7 (1.7)	3.0 (1.4)	2.4 (1.09)	2.5 (1.13)	*
V10Z 2-307B	Compression	28.5 (12.9)	—	—	—	—	25.5 (11.6)	17.0 (7.7)	12.0 (5.4)
	Shear	11.9 (5.4)	9.9 (4.5)	7.3 (3.3)	5.6 (2.5)	4.4 (2)	3.6 (1.6)	*	*

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.

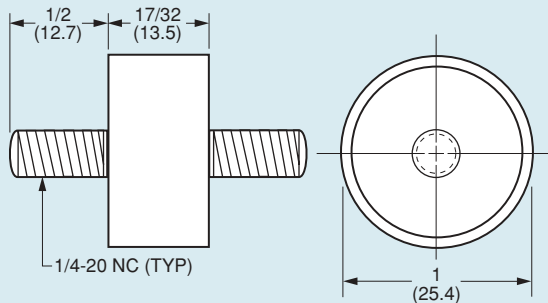


# Cylindrical Mounts – To 75 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

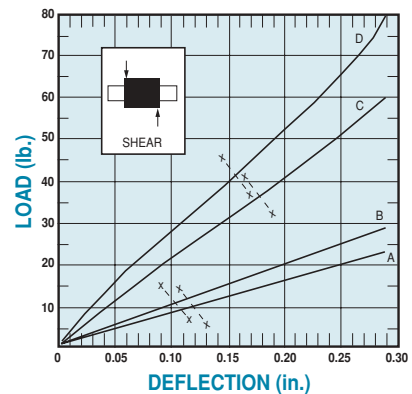
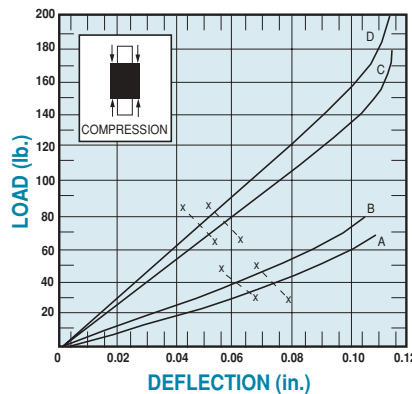
• **FOR COMPRESSION LOADS OF 40 TO 75 POUNDS (18.1 TO 34 kgf)**  
• **FOR SHEAR LOADS OF 19 TO 42 POUNDS (8.6 TO 19.1 kgf)**



**NOTE:** Dimensions in ( ) are mm.

**NOTE:**  
Maximum unthreaded portion of stud does not exceed 1/16 inch (1.59 mm).

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	1100	1250	1500	1750	2000	2250	2500	2750	3000	3600
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-305A	40 (18.1)	—	—	—	—	30.5 (13.8)	24.0 (10.9)	19.5 (8.8)	16.0 (7.3)	13.5 (6.1)	10.0 (4.5)
V10Z 2-305B	43 (19.5)	—	—	—	—	38.0 (17.2)	30.0 (13.6)	24.8 (11.2)	20.5 (9.3)	17.5 (7.9)	12.5 (5.7)
V10Z 2-305C	74 (33.6)	—	—	—	—	74.0 (33.6)	58.5 (26.5)	47.5 (21.5)	39.5 (17.9)	33.0 (15)	23.5 (10.7)
V10Z 2-305D	75 (34)	—	—	—	—	—	67.5 (30.6)	55.5 (25.2)	45.5 (20.6)	38.5 (17.5)	27.5 (12.5)

Shear		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	1100	1250	1500	1750	2000	2250	2500	2750	3000	3600
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-305A	19 (8.6)	15.7 (7.1)	12.5 (5.7)	8.3 (3.8)	6.3 (2.9)	*	*	*	*	*	*
V10Z 2-305B	21 (9.5)	19.0 (8.6)	15.5 (7)	10.6 (4.8)	8.0 (3.6)	6.3 (2.9)	5.0 (2.3)	*	*	*	*
V10Z 2-305C	37 (16.8)	—	31.5 (14.3)	22.5 (10.2)	17.0 (7.7)	14.0 (6.4)	11.5 (5.2)	9.5 (4.3)	*	*	*
V10Z 2-305D	42 (19.1)	—	40.0 (18.1)	29.5 (13.4)	22.0 (10)	18.5 (8.4)	15.8 (7.2)	13.0 (5.9)	11.0 (5)	9.5 (4.3)	*

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.



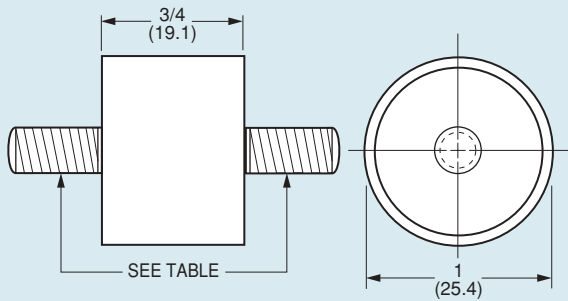


# Cylindrical Mounts – To 79 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

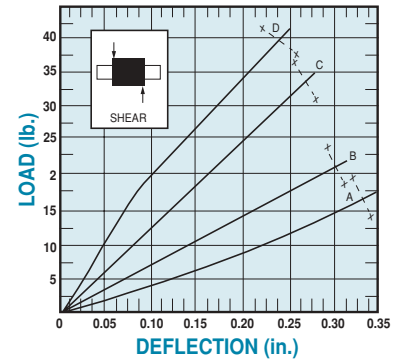
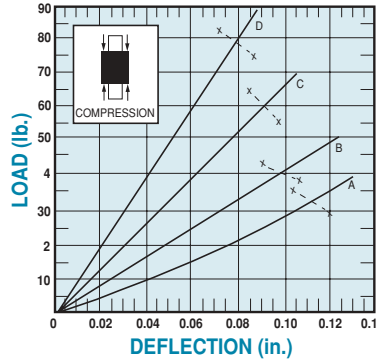
• **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolater – Natural Rubber

• **FOR COMPRESSION LOADS OF 33 TO 79 POUNDS (15 TO 35.8 kgf)**  
• **FOR SHEAR LOADS OF 18 TO 40 POUNDS (8.2 TO 18.1 kgf)**



**NOTE:** Dimensions in ( ) are in mm.

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Catalog Number	Thread	Thread Length
V10Z 2-300 <input type="checkbox"/> <sup>Δ</sup>	1/4-20 NC	1/2 (12.7)
V10Z 2-317 <input type="checkbox"/> <sup>Δ</sup>	5/16-18 NC	9/16 (14.3)

**NOTE:** Maximum unthreaded portion of stud does not exceed 1/16 inch (1.6 mm).

<sup>Δ</sup>Load Rating A, B, C, or D, see table below.

Compression		Forcing Frequency in Cycles per Minute									
Load Rating	Maximum Load lb. (kgf)	850	1100	1250	1500	1750	2000	2250	2500	3000	3600
		Minimum Load for 81% Isolation lb. (kgf)									
A	33 (15)	—	—	—	29.0 (13.2)	21.0 (9.5)	16.0 (7.3)	12.5 (5.7)	10.5 (4.8)	7.0 (3.2)	5.0 (2.3)
B	40 (18.1)	—	—	—	39.5 (18)	28.5 (12.9)	21.5 (9.8)	17.0 (7.7)	14.0 (6.4)	9.5 (4.3)	7.0 (3.2)
C	60 (27.2)	—	—	—	—	49.0 (22.2)	37.0 (16.8)	29.5 (13.4)	24.0 (10.9)	17.0 (7.7)	11.5 (5.2)
D	79 (35.8)	—	—	—	—	72.5 (32.9)	55.0 (24.9)	43.5 (19.7)	36.0 (16.3)	24.5 (11.1)	17.0 (7.7)

Shear		Forcing Frequency in Cycles per Minute									
Load Rating	Maximum Load lb. (kgf)	850	1100	1250	1500	1750	2000	2250	2500	3000	3600
		Minimum Load for 81% Isolation lb. (kgf)									
A	18 (8.2)	16.0 (7.3)	9.3 (4.2)	7.2 (3.3)	5.0 (2.3)	3.8 (1.7)	2.8 (1.3)	2.3 (1)	1.8 (0.8)	1.2 (0.5)	*
B	21 (9.5)	—	13.0 (5.9)	10.2 (4.6)	7.0 (3.2)	5.3 (2.4)	4.0 (1.8)	3.2 (1.5)	2.6 (1.2)	1.8 (0.8)	*
C	34 (15.4)	—	24.5 (11.1)	20.0 (9.1)	14.7 (6.7)	11.2 (5.1)	9.0 (4.1)	7.5 (3.4)	6.2 (2.8)	4.5 (2)	11.5 (1.6)
D	40 (18.1)	—	32.0 (14.5)	26.0 (11.8)	19.0 (8.6)	14.8 (6.7)	12.0 (5.4)	10.0 (4.5)	8.3 (3.8)	6.0 (2.7)	17.0 (2.3)

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.

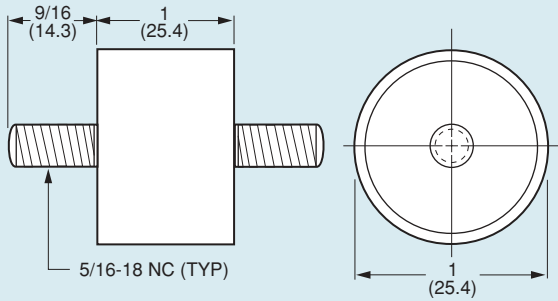


# Cylindrical Mounts – To 86 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL: Fasteners** – Steel, Zinc Plated  
**Isolator** – Natural Rubber

- **FOR COMPRESSION LOADS OF 37 TO 86 POUNDS (16.8 TO 39 kgf)**  
• **FOR SHEAR LOADS OF 16 TO 43 POUNDS (7.3 TO 19.5 kgf)**



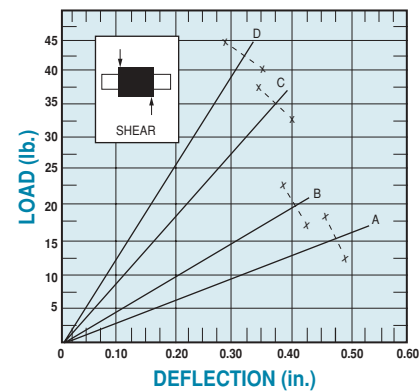
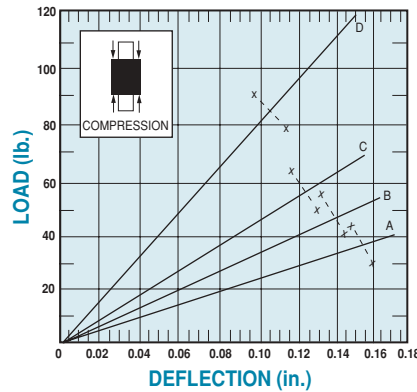
**NOTE:** Dimensions in ( ) are mm.

**NOTE:**

Maximum unthreaded portion of stud does not exceed 1/16 inch (1.59 mm).

**LOAD DEFLECTION GRAPHS**

Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	700	950	1100	1250	1500	1750	2000	2250	2500	3000
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-316A	37 (16.8)	—	—	—	35.0 (15.9)	24.0 (10.9)	18.0 (8.2)	13.5 (6.1)	11.0 (5)	—	—
V10Z 2-316B	48 (21.8)	—	—	—	—	34.0 (15.4)	26.0 (11.8)	20.5 (9.3)	16.0 (7.3)	13.0 (5.9)	—
V10Z 2-316C	57 (25.9)	—	—	—	—	46.0 (20.9)	32.5 (14.8)	26.5 (12)	20.0 (9.1)	16.0 (7.3)	—
V10Z 2-316D	86 (39)	—	—	—	—	80.0 (36.3)	59.0 (26.8)	48.0 (21.8)	38.0 (17.2)	30.0 (13.6)	29.0 (9.5)

Shear		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	700	950	1100	1250	1500	1750	2000	2250	2500	3000
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-316A	16 (7.3)	16 (7.3)	8 (3.6)	6.5 (2.9)	5.0 (2.3)	3.5 (1.6)	*	*	*	*	*
V10Z 2-316B	21 (9.5)	—	12 (5.7)	9.5 (4.3)	7.5 (3.4)	5.5 (2.5)	4.0 (1.8)	*	*	*	*
V10Z 2-316C	35 (15.9)	—	23.5 (10.7)	18.0 (8.2)	14.0 (6.4)	10.0 (4.5)	7.5 (3.4)	6.0 (2.7)	*	*	*
V10Z 2-316D	43 (19.5)	—	32.0 (14.5)	24.5 (11.1)	19.0 (8.6)	13.0 (5.9)	9.5 (4.3)	7.5 (3.4)	*	*	*

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.

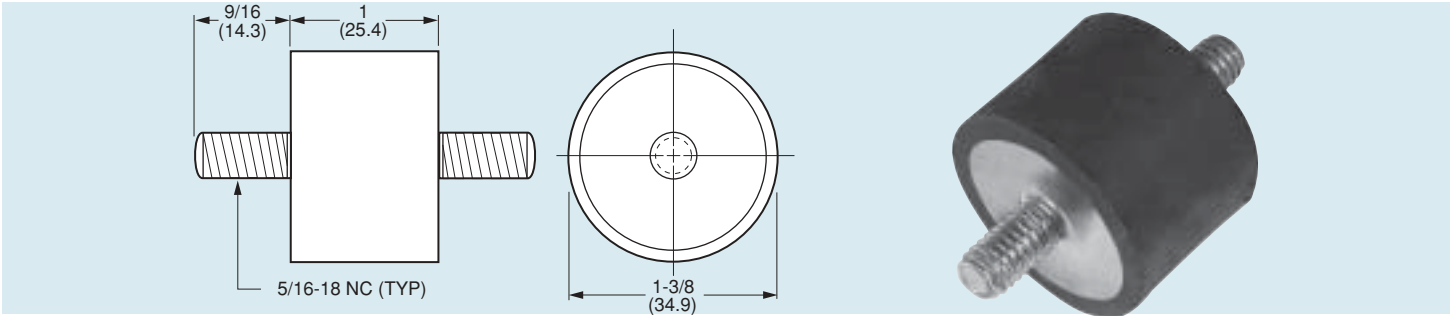


# Cylindrical Mounts – To 105 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

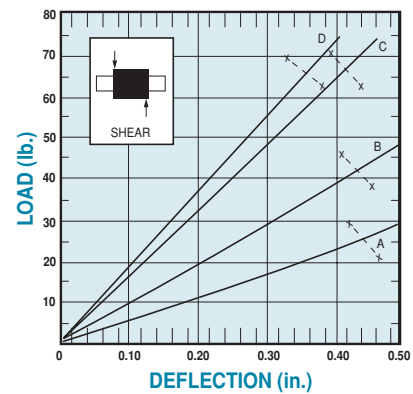
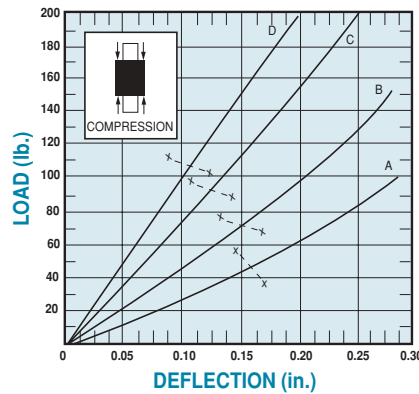
- **MATERIAL: Fasteners** – Steel, Zinc Plated  
**Isolator** – Natural Rubber

- **FOR COMPRESSION LOADS OF 47 TO 105 POUNDS (21.3 TO 47.6 kgf)**
- **FOR SHEAR LOADS OF 27 TO 66 POUNDS (12.2 TO 29.9 kgf)**



**NOTE:** Dimensions in ( ) are mm.

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	700	950	1100	1250	1500	1750	2000	2250	2500	3000
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-311A	47 (21.3)	—	—	—	44.5 (20.2)	30.0 (13.6)	22.0 (10)	18.0 (8.2)	13.5 (6.1)	11.0 (5)	—
V10Z 2-311B	74 (33.6)	—	—	—	72.5 (32.9)	48.5 (22)	35.5 (16.1)	27.0 (12.2)	21.0 (9.5)	17.5 (7.9)	12.5 (5.7)
V10Z 2-311C	96 (43.5)	—	—	—	—	75.7 (34.3)	55.5 (25.2)	43.0 (19.5)	34.0 (15.4)	28.0 (12.7)	19.5 (8.8)
V10Z 2-311D	105 (47.6)	—	—	—	—	100.0 (45.4)	73.0 (33.1)	56.5 (25.6)	45.0 (20.4)	38.0 (17.2)	25.5 (11.6)

Shear		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	700	950	1100	1250	1500	1750	2000	2250	2500	3000
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-311A	27 (12.2)	27.0 (12.2)	19.5 (8.8)	11.5 (5.2)	9.0 (4.1)	6.0 (2.7)	*	*	*	*	*
V10Z 2-311B	41 (18.6)	—	31.0 (14.1)	19.0 (8.6)	14.5 (6.6)	10.5 (4.8)	8.0 (3.6)	*	*	*	*
V10Z 2-311C	66 (29.9)	—	53.5 (24.3)	33.0 (15)	26.5 (12)	19.0 (8.6)	14.0 (6.4)	11.5 (5.2)	9.0 (4.1)	*	*
V10Z 2-311D	66 (29.9)	—	61.0 (27.7)	38.0 (17.2)	30.5 (13.8)	22.0 (10)	19.5 (8.8)	13.0 (5.9)	10.5 (4.8)	8.5 (3.9)	*

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.

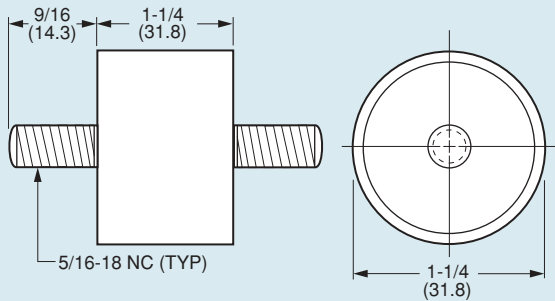


# Cylindrical Mounts – To 120 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

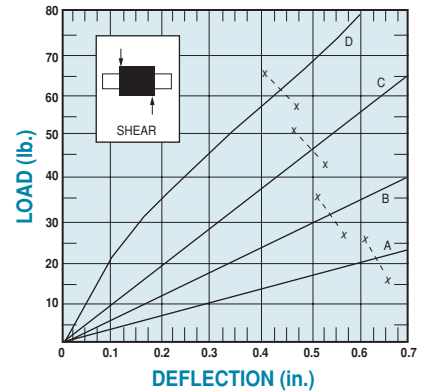
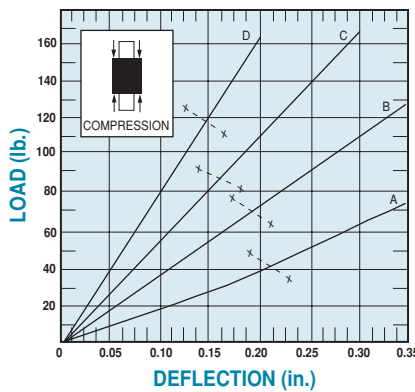
• **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

• **FOR COMPRESSION LOADS OF 41 TO 120 POUNDS (18.6 TO 54.4 kgf)**  
• **FOR SHEAR LOADS OF 21 TO 63 POUNDS (9.5 TO 28.6 kgf)**



NOTE: Dimensions in ( ) are mm.

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	600	850	950	1100	1250	1500	1750	2000	2500	3000
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-310A	41 (18.6)	—	—	—	34.5 (15.6)	27.5 (12.5)	19.0 (8.6)	14.0 (6.4)	10.0 (4.5)	7.0 (3.2)	—
V10Z 2-310B	64 (29)	—	—	—	—	48.0 (21.8)	32.0 (14.5)	24.0 (10.9)	17.5 (7.9)	12.0 (5.4)	8.5 (3.9)
V10Z 2-310C	90 (40.8)	—	—	—	—	80.0 (36.3)	55.0 (24.9)	41.5 (18.8)	30.0 (13.6)	20.0 (9.1)	14.0 (6.4)
V10Z 2-310D	120 (54.4)	—	—	—	—	—	89.0 (40.4)	70.5 (32)	53.0 (24)	38.5 (17.5)	26.5 (12)

Shear		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	600	850	950	1100	1250	1500	1750	2000	2500	3000
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-310A	21 (9.5)	20.0 (9.1)	11.0 (5)	8.5 (3.9)	6.7 (3)	5.5 (2.5)	*	*	*	*	*
V10Z 2-310B	31 (14.1)	—	18.0 (8.2)	14.0 (6.4)	10.5 (4.8)	8.0 (3.6)	5.5 (2.5)	*	*	*	*
V10Z 2-310C	48 (21.8)	—	31.5 (14.3)	25.0 (11.3)	19.5 (8.8)	15.5 (7)	11.0 (5)	8.5 (3.9)	*	*	*
V10Z 2-310D	63 (28.6)	—	50.0 (22.7)	41.0 (18.6)	32.6 (14.8)	27.5 (12.5)	20.5 (9.3)	16.0 (7.3)	14.0 (6.4)	8.0 (3.6)	*

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.

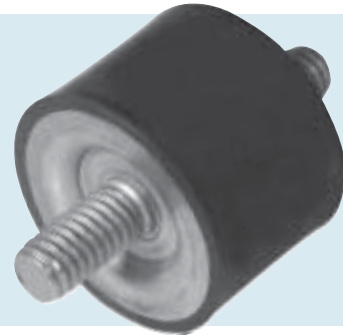
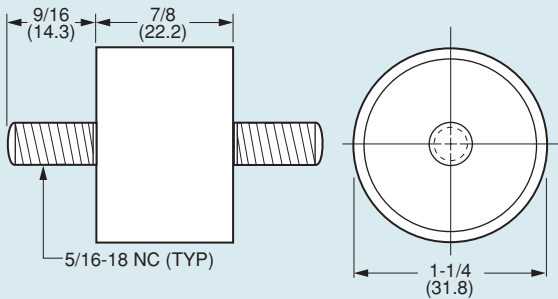


# Cylindrical Mounts – To 123 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

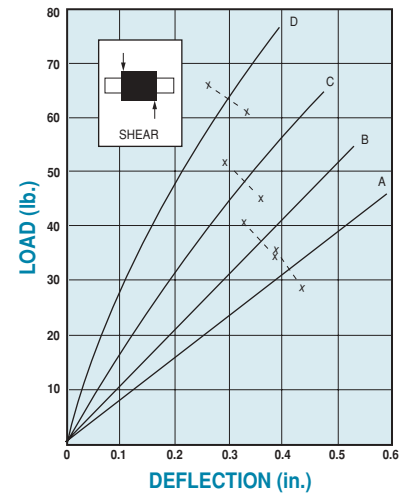
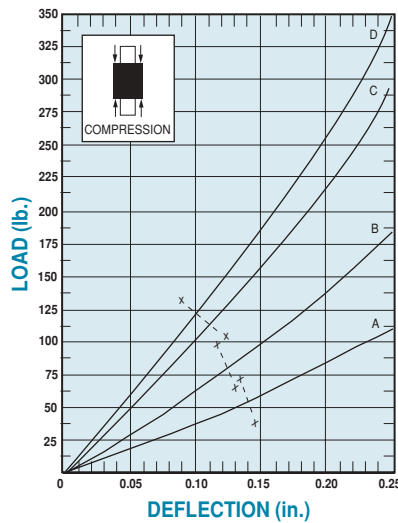
- MATERIAL: Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

- FOR COMPRESSION LOADS OF 56 TO 123 POUNDS (25.4 TO 55.8 kgf)
- FOR SHEAR LOADS OF 32 TO 63 POUNDS (14.5 TO 28.6 kgf)



NOTE: Dimensions in ( ) are mm.

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	750	850	950	1100	1250	1500	1750	2000	2500	3000
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-315A	56 (25.4)	—	—	—	—	—	40.0 (18.1)	28.0 (12.7)	21.0 (9.5)	13.0 (5.9)	—
V10Z 2-315B	82 (37.2)	—	—	—	—	—	68.5 (31.1)	50.0 (22.7)	35.0 (15.9)	23.0 (10.4)	17.0 (7.7)
V10Z 2-315C	115 (52.2)	—	—	—	—	—	107.0 (48.5)	77.5 (35.2)	57.0 (25.9)	27.5 (12.5)	22.0 (10)
V10Z 2-315D	123 (55.8)	—	—	—	—	—	—	92.0 (41.7)	67.5 (30.6)	43.0 (19.5)	32.0 (14.5)

Shear		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	750	850	950	1100	1250	1500	1750	2000	2500	3000
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-315A	32 (14.5)	31.0 (14.1)	24.0 (10.9)	19.0 (8.6)	14.0 (6.4)	11.0 (5)	8.0 (3.6)	5.6 (2.5)	*	*	*
V10Z 2-315B	37 (16.8)	—	32.0 (14.5)	26.0 (11.8)	19.0 (8.6)	15.0 (6.8)	10.0 (4.5)	7.6 (3.4)	5.1 (2.3)	*	*
V10Z 2-315C	48 (21.8)	—	45.0 (20.4)	38.0 (17.2)	29.0 (13.2)	24.0 (10.9)	17.0 (7.7)	13.0 (5.9)	10.0 (4.5)	6.5 (2.9)	*
V10Z 2-315D	63 (28.6)	—	—	56.0 (25.4)	45.0 (20.4)	38.0 (17.2)	27.0 (12.2)	21.0 (9.5)	17.0 (7.7)	11.0 (5)	8.0 (3.6)

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.

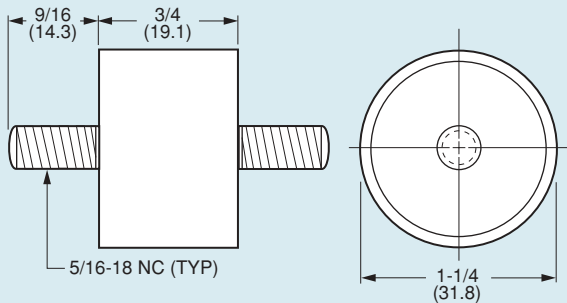


# Cylindrical Mounts – To 142 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

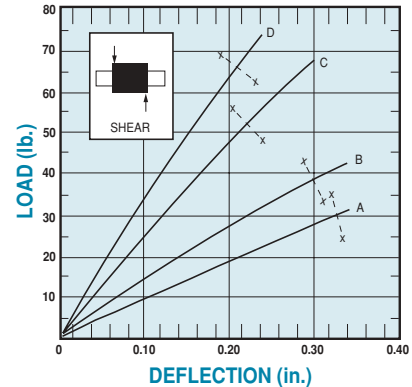
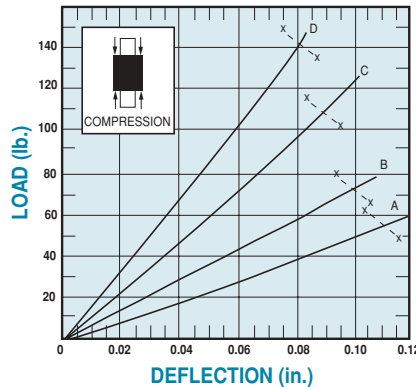
- MATERIAL: Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

- FOR COMPRESSION LOADS OF 56 TO 142 POUNDS (25.4 TO 64.4 kgf)  
• FOR SHEAR LOADS OF 32 TO 64 POUNDS (14.5 TO 29 kgf)



NOTE: Dimensions in ( ) are mm.

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	950	1100	1250	1500	1750	2000	2250	2500	3000	3600
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-314A	56 (24.4)	—	—	—	50.0 (22.7)	38.0 (17.2)	28.5 (12.9)	22.5 (10.2)	18.0 (8.2)	12.5 (5.7)	—
V10Z 2-314B	73 (33.1)	—	—	—	73.0 (33.1)	51.0 (23.1)	39.0 (17.7)	30.5 (13.8)	24.5 (11.1)	16.5 (7.5)	12.0 (5.4)
V10Z 2-314C	109 (49.5)	—	—	—	—	85.0 (38.6)	63.5 (28.8)	50.0 (22.7)	41.0 (18.6)	28.0 (12.7)	20.0 (9.1)
V10Z 2-314D	142 (64.4)	—	—	—	—	129.0 (58.5)	99.0 (44.9)	78.0 (35.4)	64.0 (29)	44.0 (20)	30.0 (13.6)

Shear		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	950	1100	1250	1500	1750	2000	2250	2500	3000	3600
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-314A	32 (14.5)	23.0 (10.4)	18.0 (8.2)	14.5 (6.6)	10.0 (4.5)	7.5 (3.4)	*	*	*	*	*
V10Z 2-314B	38 (17.2)	32.0 (14.5)	24.5 (11.1)	19.0 (8.6)	13.0 (5.9)	9.5 (4.3)	7.0 (3.2)	*	*	*	*
V10Z 2-314C	51 (23.1)	—	44.5 (20.2)	36.0 (16.3)	26.0 (11.8)	19.5 (8.8)	14.0 (6.4)	12.0 (5.4)	10.0 (4.5)	*	*
V10Z 2-314D	64 (29)	—	58.0 (26.3)	46.5 (21.1)	34.0 (15.4)	27.0 (12.2)	20.5 (9.3)	17.0 (7.7)	14.0 (6.4)	9.5 (4.3)	*

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.



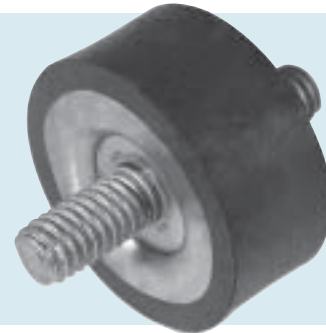
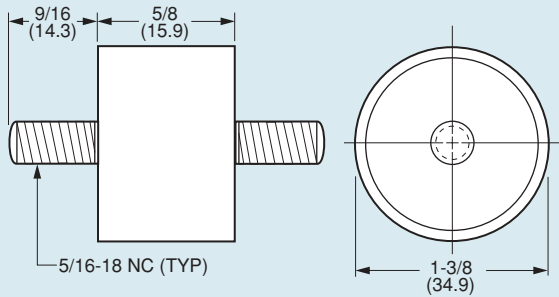


# Cylindrical Mounts – To 185 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

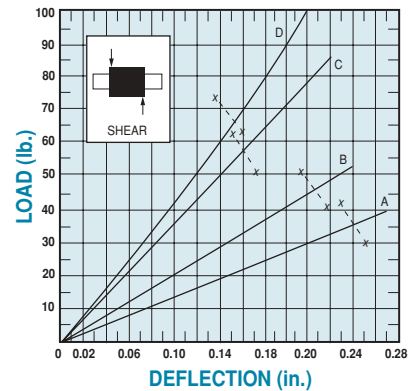
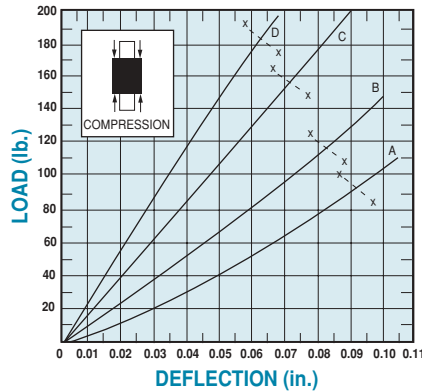
• **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

• **FOR COMPRESSION LOADS OF 93 TO 185 POUNDS (42.2 TO 83.9 kgf)**  
• **FOR SHEAR LOADS OF 36 TO 67 POUNDS (16.3 TO 30.4 kgf)**



NOTE: Dimensions in ( ) are mm.

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	950	1100	1250	1500	1750	2000	2250	2500	2750	3000
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-312A	93 (42.2)	—	—	—	—	71.0 (32.2)	51.0 (23.1)	39.0 (17.7)	31.0 (14.1)	25.0 (11.3)	—
V10Z 2-312B	118 (53.5)	—	—	—	—	106.0 (48.1)	81.0 (36.7)	64.0 (29)	52.0 (23.6)	43.0 (19.5)	35.0 (15.9)
V10Z 2-312C	158 (71.7)	—	—	—	—	—	121.0 (54.9)	96.0 (43.5)	79.0 (35.8)	65.0 (29.5)	54.0 (24.5)
V10Z 2-312D	185 (83.9)	—	—	—	—	—	164.0 (74.4)	131.0 (59.4)	109.0 (49.4)	90.0 (40.8)	74.0 (33.6)

Shear		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	950	1100	1250	1500	1750	2000	2250	2500	2750	3000
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-312A	36 (16.3)	34.0 (15.4)	25.0 (11.3)	19.0 (8.6)	13.5 (6.1)	10.0 (4.5)	*	*	*	*	*
V10Z 2-312B	46 (20.9)	—	38.0 (17.2)	30.0 (13.6)	21.0 (9.5)	16.0 (7.3)	12.0 (5.4)	9.5 (4.3)	*	*	*
V10Z 2-312C	57 (25.9)	—	—	50.0 (22.7)	35.0 (15.9)	26.0 (11.8)	20.0 (9.1)	16.0 (7.3)	13.0 (5.9)	*	*
V10Z 2-312D	67 (30.4)	—	—	66.0 (29.9)	46.0 (20.9)	34.0 (15.4)	26.0 (11.8)	21.0 (9.5)	18.0 (8.2)	14.0 (6.4)	*

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.

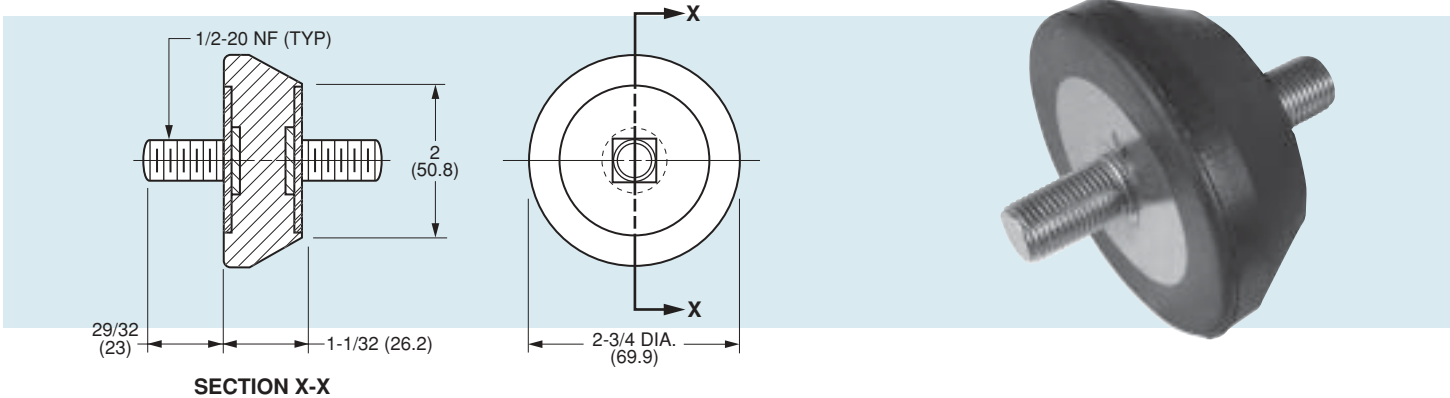


# Cylindrical Mounts – To 330 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

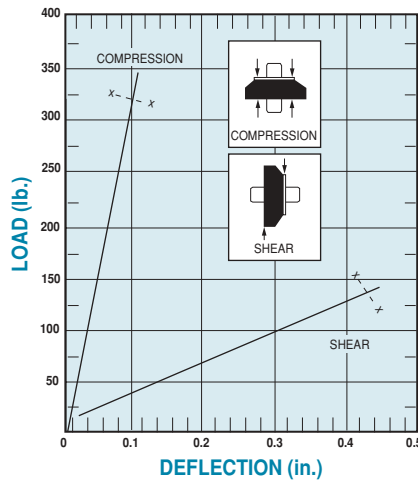
- **FOR COMPRESSION LOADS TO 330 POUNDS (149.7 kgf)**
- **FOR SHEAR LOADS TO 140 POUNDS (63.5 kgf)**



**NOTE:** Dimensions in ( ) are mm.

### LOAD DEFLECTION GRAPHS

Deflections below the line x--x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Catalog Number	Mode	Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute								
			700	850	1100	1250	1500	1750	2000	2250	2500
			Minimum Load for 81% Isolation lb. (kgf)								
V10Z 2-330B	Compression	330 (149.7)	—	—	—	—	255 (115.7)	190 (86.2)	150 (68)	120 (54.4)	90 (40.8)
	Shear	140 (63.5)	140 (63.5)	105 (47.6)	65 (29.5)	52 (23.6)	38 (17.2)	32 (14.5)	*	*	*

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.



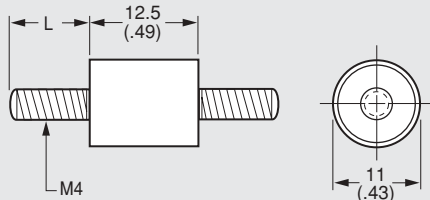
# Cylindrical Mounts – To 6 kgf

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Fastener – Steel, Zinc Plated  
Isolator – Natural Rubber

• **FOR COMPRESSION LOADS OF 2 TO 6 kgf (4.9 TO 13.3 lb.)**  
• **FOR SHEAR LOADS OF 1 TO 3 kgf (2.7 TO 6.4 lb.)**

**New**



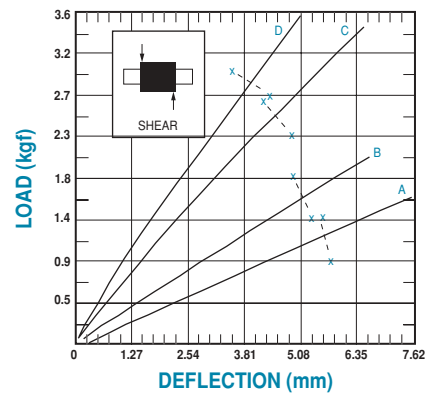
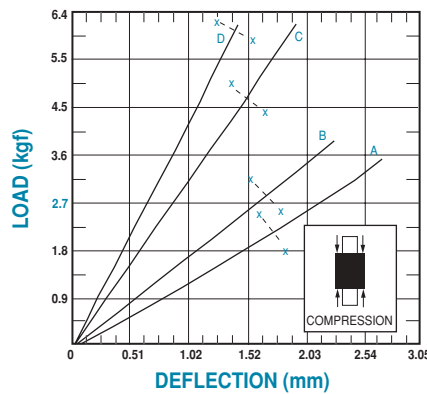
**NOTE:** Dimensions in ( ) are inch.



Metric

**NOTE:** Maximum unthreaded portion of stud does not exceed 1.59 mm (.06 in.).

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load kgf (lb.)	1000	1250	1500	1750	2000	2250	2500	2750	3000	3600
		Minimum Load for 81% Isolation kgf (lb.)									
V10Z 2M302AM4□□	2.2 (4.9)	—	—	—	—	1.8 (3.9)	1.4 (3.0)	1.1 (2.4)	0.9 (2.0)	0.8 (1.8)	0.5 (1.0)
V10Z 2M302BM4□□	2.9 (6.4)	—	—	—	—	2.4 (5.3)	1.9 (4.2)	1.5 (3.4)	1.3 (2.9)	1.1 (2.5)	0.7 (1.5)
V10Z 2M302CM4□□	4.7 (10.4)	—	—	—	—	4.5 (9.8)	3.5 (7.7)	2.9 (6.3)	2.4 (5.2)	2 (4.3)	1.2 (2.6)
V10Z 2M302DM4□□	6 (13.3)	—	—	—	—	5.9 (13.1)	4.7 (10.4)	3.9 (8.5)	3.2 (7.0)	2.6 (5.8)	1.9 (4.2)

Shear		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load kgf (lb.)	1000	1250	1500	1750	2000	2250	2500	2750	3000	3600
		Minimum Load for 81% Isolation kgf (lb.)									
V10Z 2M302AM4□□	1.2 (2.7)	1.18 (2.6)	0.77 (1.7)	0.54 (1.2)	0.45 (1.0)	0.32 (.7)	0.22 (.5)	*	*	*	*
V10Z 2M302BM4□□	1.6 (3.6)	—	1.18 (2.6)	0.87 (1.9)	0.63 (1.4)	0.5 (1.1)	0.37 (.8)	0.32 (.7)	0.28 (.6)	*	*
V10Z 2M302CM4□□	2.5 (5.6)	—	2.14 (4.7)	1.45 (3.2)	1.13 (2.5)	0.87 (1.9)	0.68 (1.5)	0.59 (1.3)	0.5 (1.1)	2 (.9)	0.32 (.7)
V10Z 2M302DM4□□	2.9 (6.4)	—	2.76 (6.1)	2 (4.4)	1.54 (3.4)	1.22 (2.7)	1 (2.2)	0.82 (1.8)	0.72 (1.6)	2.6 (1.4)	0.45 (1.0)

Length, L  
07 = 7 mm (.275)  
10 = 10mm (.394)

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.



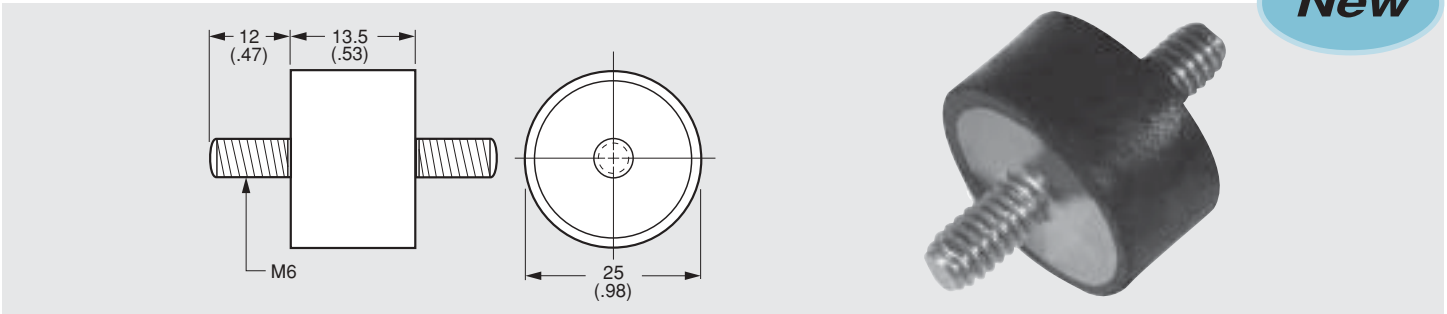
# Cylindrical Mounts – To 34 kgf

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Fastener – Steel, Zinc Plated  
Isolator – Natural Rubber

• **FOR COMPRESSION LOADS OF 18 TO 34 kgf (40 TO 75 lb.)**  
• **FOR SHEAR LOADS OF 9 TO 18 kgf (19 TO 42 lb.)**

**New**

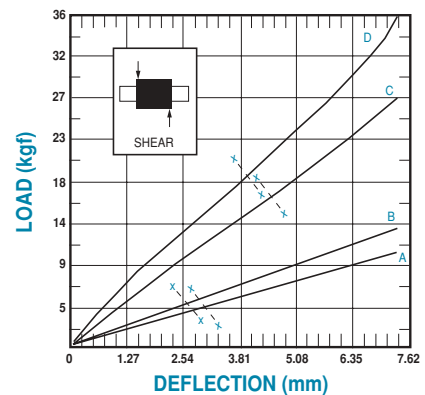
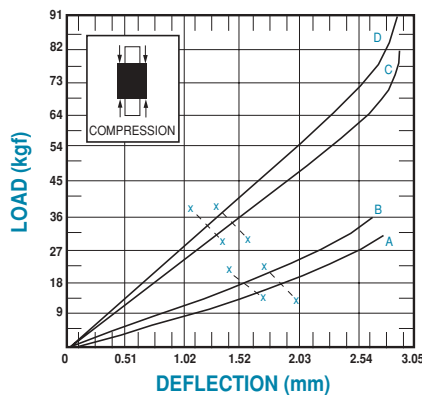


**NOTE:** Dimensions in ( ) are inch.

**Metric**

**NOTE:** Maximum unthreaded portion of stud does not exceed 1.59 mm (.06 in.).

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load kgf (lb.)	1100	1250	1500	1750	2000	2250	2500	2750	3000	3600
		Minimum Load for 81% Isolation kgf (lb.)									
V10Z 2M305AM06	18.2 (40.1)	—	—	—	—	13.8 (30.4)	10.9 (24.0)	8.8 (19.4)	4.8 (10.6)	3.2 (7.1)	2.3 (5.1)
V10Z 2M305BM06	19.5 (43.0)	—	—	—	—	17.2 (37.9)	13.6 (30.0)	11.3 (24.9)	6.4 (14.1)	4.3 (9.5)	3.2 (7.1)
V10Z 2M305CM06	33.6 (74.1)	—	—	—	—	33.6 (74.1)	26.5 (58.4)	21.6 (47.6)	10.9 (24.0)	7.7 (17.0)	5.2 (11.5)
V10Z 2M305DM06	34 (75.0)	—	—	—	—	—	30.6 (67.5)	25.2 (55.6)	16.3 (35.9)	11.1 (24.5)	7.7 (17.0)

Shear		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load kgf (lb.)	1100	1250	1500	1750	2000	2250	2500	2750	3000	3600
		Minimum Load for 81% Isolation kgf (lb.)									
V10Z 2M305AM06	8.6 (19.0)	7.1 (15.7)	5.7 (12.6)	3.8 (8.4)	2.9 (6.4)	*	*	*	1 (2.2)	1 (2.2)	*
V10Z 2M305BM06	9.5 (20.9)	8.6 (19.0)	7 (15.4)	4.8 (10.6)	3.6 (7.9)	2.9 (6.4)	2.3 (5.1)	*	1.2 (2.6)	1 (2.2)	*
V10Z 2M305CM06	16.8 (37.0)	—	14.3 (31.5)	10.2 (22.5)	7.7 (17.0)	6.4 (14.1)	5.2 (11.5)	4.3 (9.5)	2.8 (6.2)	2 (4.4)	1.6 (3.5)
V10Z 2M305DM06	19 (41.9)	—	18.1 (40.0)	13.3 (29.3)	10 (22.0)	8.4 (18.5)	7.2 (15.9)	5.9 (13.0)	3.8 (8.4)	3 (6.0)	2.3 (5.1)

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.



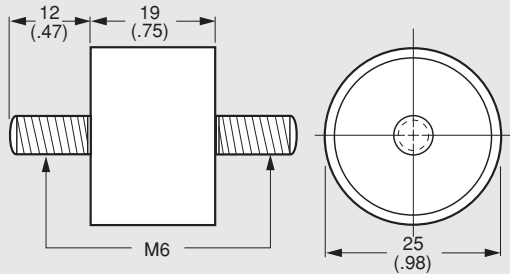
# Cylindrical Mounts – To 36 kgf

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Fastener – Steel, Zinc Plated  
Isolator – Natural Rubber

• **FOR COMPRESSION LOADS OF 15 TO 36 kgf (33 TO 79 lb.)**  
• **FOR SHEAR LOADS OF 8 TO 18 kgf (18 TO 40 lb.)**

**New**

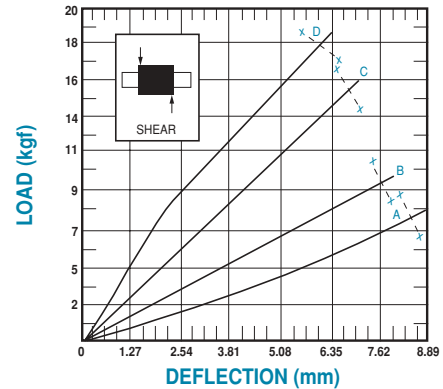
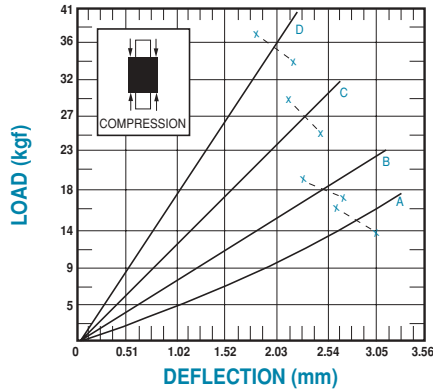


**NOTE:** Dimensions in ( ) are inch.

**Metric**

**NOTE:** Maximum unthreaded portion of stud does not exceed 1.59 mm (.06 in.).

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load kgf (lb.)	1000	1250	1500	1750	2000	2250	2500	2750	3000	3600
		Minimum Load for 81% Isolation kgf (lb.)									
V10Z 2M300AM406	15 (33)	—	—	—	13.2 (29)	9.5 (21)	7.3 (16)	5.7 (12.5)	4.8 (10.5)	3.2 (7.0)	2.3 (5.0)
V10Z 2M300BM406	18.1 (40)	—	—	—	17.9 (39.5)	12.9 (28.5)	9.8 (21.5)	7.7 (17.0)	6.4 (14.0)	4.3 (9.5)	3.2 (7.0)
V10Z 2M300CM406	27.2 (60)	—	—	—	—	22.2 (49)	16.8 (37)	13.4 (29.5)	10.9 (24.0)	7.7 (17.0)	5.2 (11.5)
V10Z 2M300DM406	35.9 (79)	—	—	—	—	32.9 (72.5)	25 (55)	19.7 (43.5)	16.3 (36)	11.1 (24.5)	7.7 (17.0)

Shear		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load kgf (lb.)	1000	1250	1500	1750	2000	2250	2500	2750	3000	3600
		Minimum Load for 81% Isolation kgf (lb.)									
V10Z 2M300AM406	8.2 (18)	7.3 (16.0)	4.2 (9.3)	3.3 (7.2)	2.3 (5.0)	1.7 (3.8)	1.3 (2.8)	1 (2.3)	0.8 (1.8)	0.5 (1.2)	*
V10Z 2M300BM406	9.5 (21)	—	5.9 (13.0)	4.6 (10.2)	3.2 (7.0)	2.3 (5.3)	1.8 (4.0)	1.4 (3.2)	1.2 (2.6)	0.8 (1.8)	*
V10Z 2M300CM406	15.4 (34)	—	11.1 (24.5)	9.1 (20)	6.7 (14.7)	5.1 (11.2)	4.1 (9.0)	3.4 (7.5)	2.8 (6.2)	2 (4.5)	1.6 (3.5)
V10Z 2M300DM406	18.1 (40)	—	14.5 (32)	11.8 (26)	8.6 (19.0)	6.7 (14.8)	5.5 (12.0)	4.5 (10.0)	3.8 (8.3)	2.7 (6.0)	2.3 (5.0)

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.



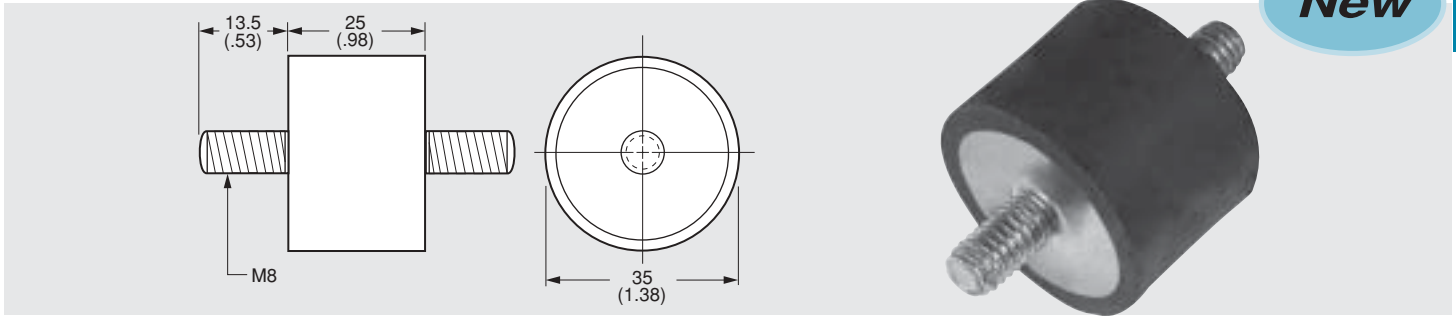
# Cylindrical Mounts – To 48 kgf

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

• FOR COMPRESSION LOADS OF 21 TO 48 kgf (47 TO 105 lb.)  
• FOR SHEAR LOADS OF 12 TO 30 kgf (27 TO 66 lb.)

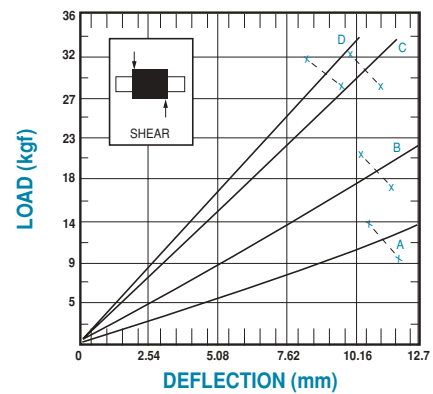
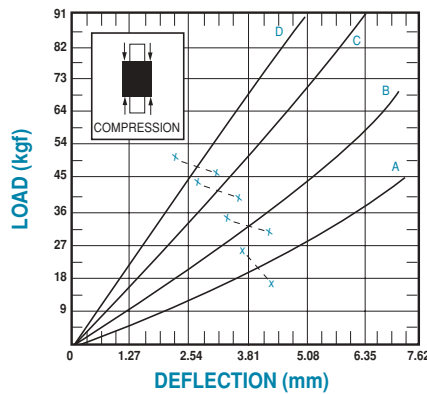
**New**



NOTE: Dimensions in ( ) are inch.

**Metric**

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load kgf (lb.)	700	850	1100	1250	1500	1750	2000	2250	2500	3000
		Minimum Load for 81% Isolation kgf (lb.)									
V10Z 2M311AM08	21.3 (47)	—	—	—	20.2 (44.5)	13.6 (30)	10 (22)	8.2 (18)	6.1 (13.5)	5 (11)	—
V10Z 2M311BM08	33.6 (74)	—	—	—	32.9 (72.5)	22 (48.5)	16.1 (35.5)	12.3 (27)	9.5 (21)	7.9 (17.5)	5.7 (12.5)
V10Z 2M311CM08	43.5 (96)	—	—	—	—	34.3 (75.7)	25.5 (55.5)	19.5 (43)	15.4 (34)	12.7 (28)	8.8 (19.5)
V10Z 2M311DM08	47.6 (105)	—	—	—	—	45.4 (100)	33.1 (73)	25.6 (56.5)	20.4 (45)	17.2 (38)	11.6 (25.5)

Shear		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load kgf (lb.)	700	850	1100	1250	1500	1750	2000	2250	2500	3000
		Minimum Load for 81% Isolation kgf (lb.)									
V10Z 2M311AM08	12.3 (27)	12.3 (27)	8.8 (19.5)	5.2 (11.5)	4.1 (9)	2.7 (6)	*	*	*	*	*
V10Z 2M311BM08	18.6 (41)	—	14.1 (31)	8.6 (19)	6.6 (14.5)	4.8 (10.5)	3.6 (8)	*	*	*	*
V10Z 2M311CM08	29.9 (66)	—	24.3 (53.5)	15 (33)	12 (26.5)	8.6 (19)	6.4 (14)	5.2 (11.5)	4.1 (9)	*	*
V10Z 2M311DM08	29.9 (66)	—	27.7 (61)	17.2 (38)	13.8 (30.5)	10 (22)	8.8 (19.5)	5.9 (13)	4.8 (10.5)	3.9 (8.5)	*

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.





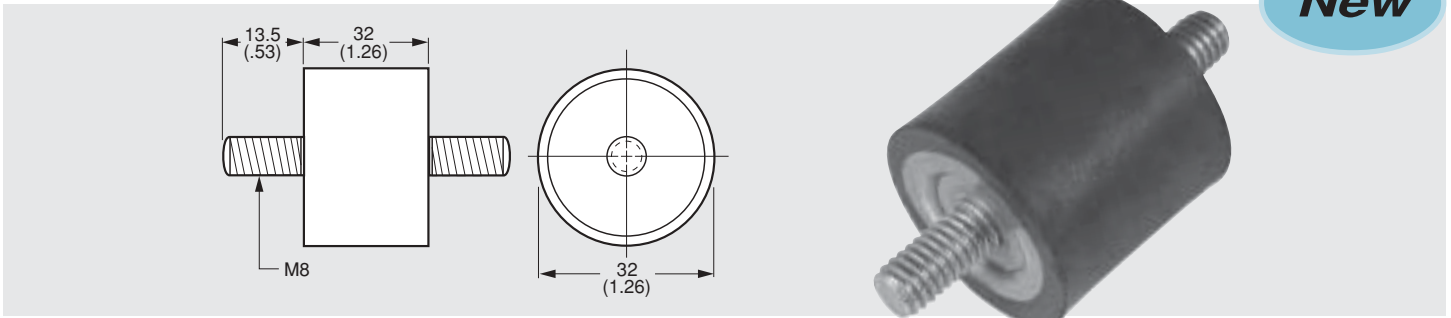
# Cylindrical Mounts – To 54 kgf

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

• FOR COMPRESSION LOADS OF 19 TO 54 kgf (41 TO 120 lb.)  
• FOR SHEAR LOADS OF 10 TO 29 kgf (21 TO 63 lb.)

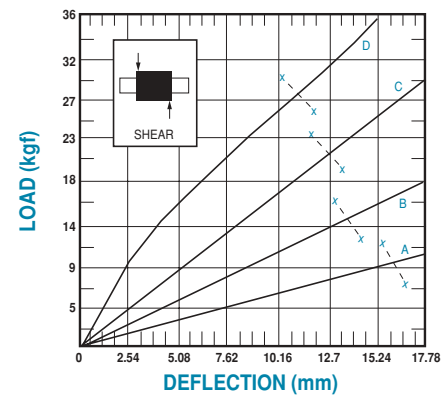
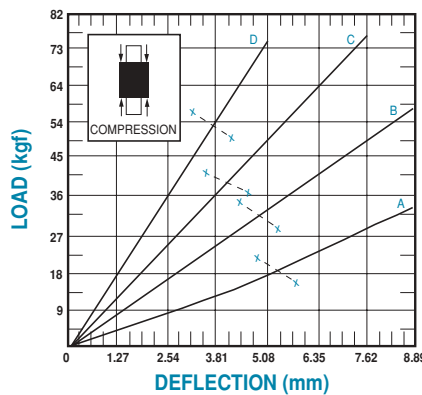
**New**



NOTE: Dimensions in ( ) are inch.

**Metric**

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load kgf (lb.)	600	850	950	1100	1250	1500	1750	2000	2500	3000
		Minimum Load for 81% Isolation kgf (lb.)									
V10Z 2M310AM08	18.6 (41)	—	—	—	15.7 (34.5)	12.5 (27.5)	8.6 (19)	6.4 (14)	4.5 (10)	3.2 (7)	—
V10Z 2M310BM08	29 (64)	—	—	—	—	21.8 (48)	14.5 (32)	10.9 (24)	7.9 (17.5)	5.5 (12)	3.9 (8.5)
V10Z 2M310CM08	40.8 (90)	—	—	—	—	36.3 (80)	25 (55)	18.8 (41.5)	13.6 (30)	9.1 (20)	6.4 (14)
V10Z 2M310DM08	54.4 (120)	—	—	—	—	—	40.4 (89)	32 (70.5)	24 (53)	17.5 (38.5)	12 (26.5)

Shear		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load kgf (lb.)	600	850	950	1100	1250	1500	1750	2000	2500	3000
		Minimum Load for 81% Isolation kgf (lb.)									
V10Z 2M310AM08	9.5 (21)	9.1 (20)	5 (11)	3.9 (8.5)	3 (6.7)	2.5 (5.5)	*	*	*	*	*
V10Z 2M310BM08	14.1 (31)	—	8.2 (18)	6.4 (14)	4.8 (10.5)	3.6 (8)	2.5 (5.5)	*	*	*	*
V10Z 2M310CM08	21.8 (48)	—	14.3 (31.5)	11.3 (25)	8.8 (19.5)	7 (15.5)	5 (11)	3.9 (8.5)	*	*	*
V10Z 2M310DM08	28.6 (63)	—	22.7 (50)	18.6 (41)	14.8 (32.6)	12.5 (27.5)	9.3 (20.5)	7.3 (16)	6.4 (14)	3.6 (8)	*

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.



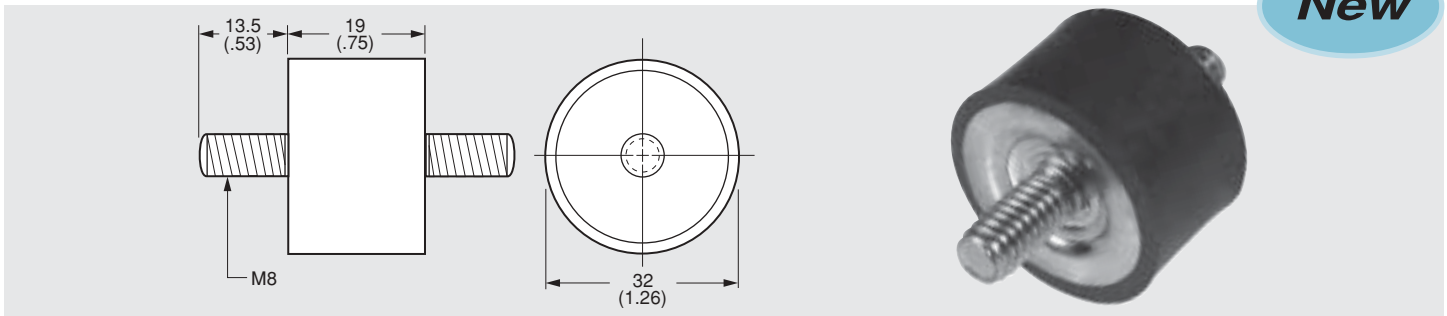
# Cylindrical Mounts – To 64 kgf

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

• **FOR COMPRESSION LOADS OF 25 TO 64 kgf (56 TO 142 lb.)**  
• **FOR SHEAR LOADS OF 15 TO 29 kgf (32 TO 64 lb.)**

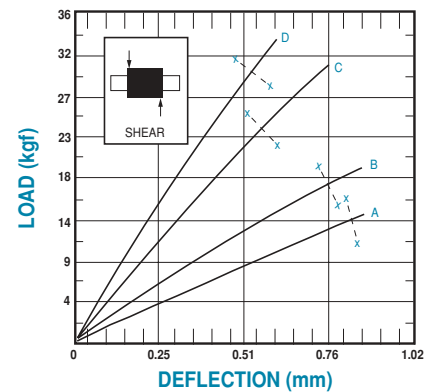
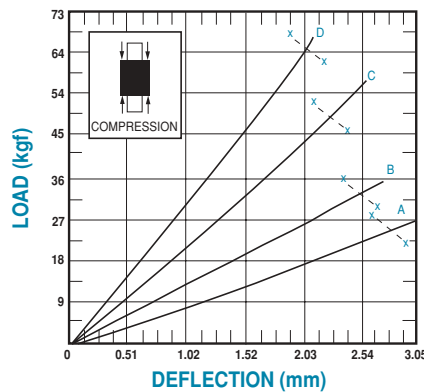
**New**



**NOTE:** Dimensions in ( ) are inch.

**Metric**

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load kgf (lb.)	950	1100	1250	1500	1750	2000	2250	2500	3000	3600
		Minimum Load for 81% Isolation kgf (lb.)									
V10Z 2M314AM08	25.4 (56)	—	—	—	22.7 (50)	17.2 (38)	12.9 (28.5)	10.2 (22.5)	8.2 (18)	5.7 (12.5)	—
V10Z 2M314BM08	33.1 (73)	—	—	—	33.1 (73)	23.1 (51)	17.7 (39)	13.8 (30.5)	11.1 (24.5)	7.5 (16.5)	5.5 (12)
V10Z 2M314CM08	49.5 (109)	—	—	—	—	38.6 (85)	28.8 (63.5)	22.7 (50)	18.6 (41)	12.7 (28)	9.1 (20)
V10Z 2M314DM08	64.4 (142)	—	—	—	—	58.5 (129)	44.9 (99)	35.4 (78)	29 (64)	20 (44)	13.6 (30)

Shear		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load kgf (lb.)	950	1100	1250	1500	1750	2000	2250	2500	3000	3600
		Minimum Load for 81% Isolation kgf (lb.)									
V10Z 2M314AM08	14.5 (32)	10.4 (23)	8.2 (18)	6.6 (14.5)	4.5 (10)	3.4 (7.5)	*	*	*	*	*
V10Z 2M314BM08	17.2 (38)	14.5 (32)	11.1 (24.5)	8.6 (19)	5.9 (13)	4.3 (9.5)	3.2 (7)	*	*	*	*
V10Z 2M314CM08	23.1 (51)	—	20.2 (44.5)	16.3 (36)	11.8 (26)	8.8 (19.5)	6.4 (14)	5.5 (12)	4.5 (10)	*	*
V10Z 2M314DM08	29 (64)	—	26.3 (58)	21.1 (46.5)	15.4 (34)	12.3 (27)	9.3 (20.5)	7.7 (17)	6.4 (14)	4.3 (9.5)	*

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.



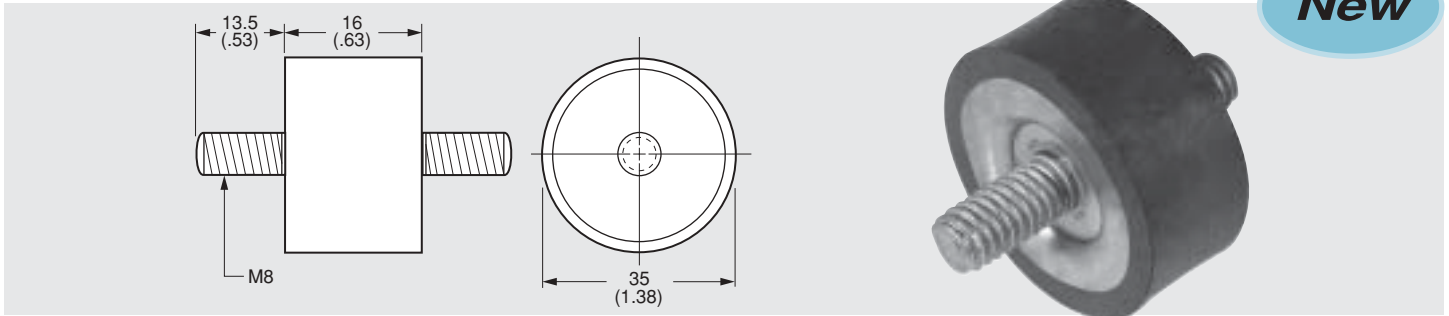
# Cylindrical Mounts – To 84 kgf

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

• **FOR COMPRESSION LOADS OF 42 TO 84 kgf (93 TO 185 lb.)**  
• **FOR SHEAR LOADS OF 16 TO 30 kgf (36 TO 67 lb.)**

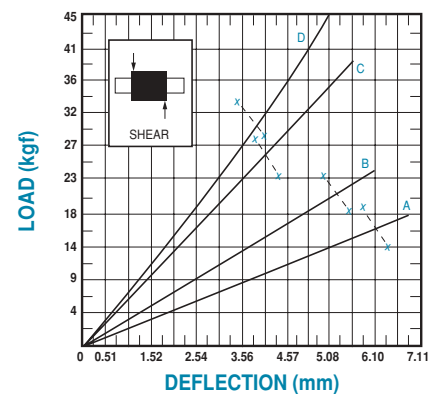
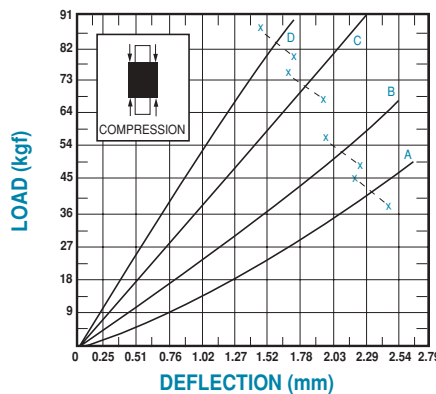
**New**



**NOTE:** Dimensions in ( ) are inch.

**Metric**

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load kgf (lb.)	950	1100	1250	1500	1750	2000	2250	2500	2750	3000
		Minimum Load for 81% Isolation kgf (lb.)									
V10Z 2M312AM08	42.2 (93)	—	—	—	—	32.2 (71)	23.1 (51)	17.7 (39)	14.1 (31)	11.3 (25)	—
V10Z 2M312BM08	53.5 (118)	—	—	—	—	48.1 (106)	36.7 (81)	29 (64)	23.6 (52)	19.5 (43)	15.9 (35)
V10Z 2M312CM08	71.7 (158)	—	—	—	—	54.9 (121)	43.5 (96)	35.8 (79)	29.5 (65)	24.5 (54)	—
V10Z 2M312DM08	83.9 (185)	—	—	—	—	74.4 (164)	59.4 (131)	49.5 (109)	40.8 (90)	33.6 (74)	—

Shear		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load kgf (lb.)	950	1100	1250	1500	1750	2000	2250	2500	2750	3000
		Minimum Load for 81% Isolation kgf (lb.)									
V10Z 2M312AM08	16.3 (36)	15.4 (34)	11.3 (25)	8.6 (19)	6.1 (13.5)	4.5 (10)	*	*	*	*	*
V10Z 2M312BM08	20.9 (46)	—	17.2 (38)	13.6 (30)	9.5 (21)	7.3 (16)	5.5 (12)	4.3 (9.5)	*	*	*
V10Z 2M312CM08	25.9 (57)	—	—	22.7 (50)	15.9 (20)	11.8 (26)	9.1 (20)	7.3 (16)	5.9 (13)	*	*
V10Z 2M312DM08	30.4 (67)	—	—	29.9 (66)	20.9 (26)	15.4 (34)	11.8 (26)	9.5 (21)	8.2 (18)	6.4 (14)	*

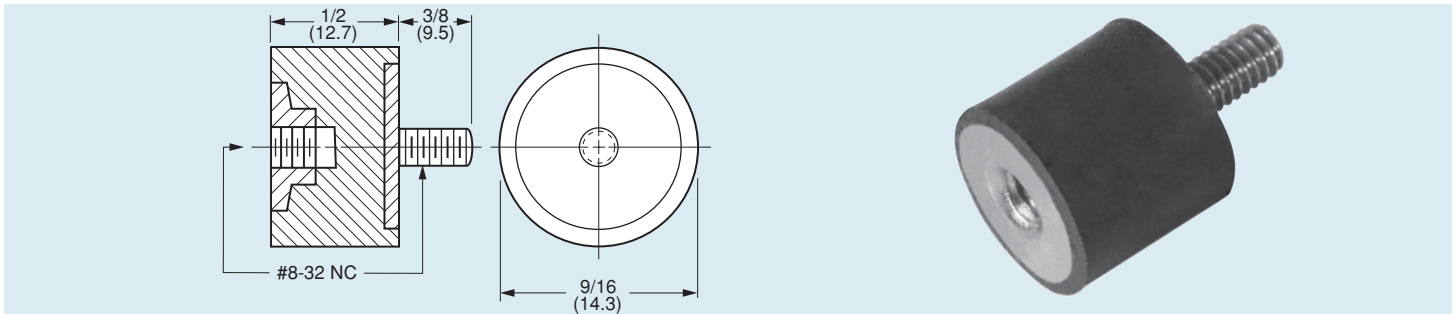
\*At these forcing frequencies, lesser loads will yield less than 81% isolation.



# Cylindrical Mounts – Neoprene – To 16 lbs.

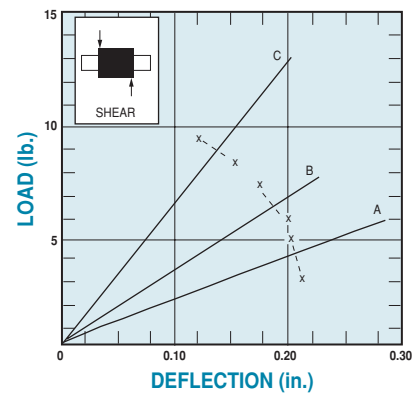
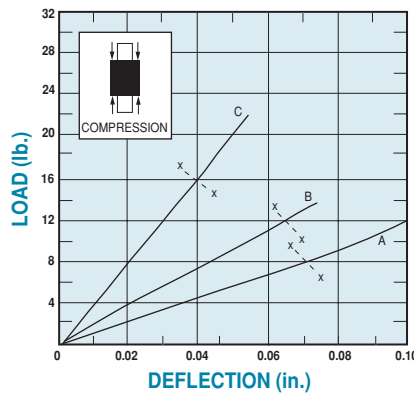
[www.vibrationmounts.com](http://www.vibrationmounts.com) Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Fasteners – Hardened Steel, Zinc Plated • **FOR COMPRESSION LOADS OF 8 TO 16 POUNDS (3.6 TO 7.3 kgf)**
- Isolator – Neoprene • **FOR SHEAR LOADS OF 4.4 TO 9 POUNDS (2 TO 4.1 kgf)**
- **OIL-RESISTANT ELASTOMER**



**NOTE:** Dimensions in ( ) are mm.

**LOAD DEFLECTION GRAPHS**  
 Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Catalog Number	Mode	Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute									
			1100	1250	1500	1750	2000	2250	2500	2750	3000	3600
			Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-304A	Compression	8 (3.6)	—	—	—	—	6.2 (2.8)	4.8 (2.2)	4.0 (1.8)	3.2 (1.5)	2.7 (1.2)	2.0 (0.9)
	Shear	4.4 (2)	4.0 (1.8)	3.1 (1.4)	2.2 (1)	1.7 (0.8)	1.3 (0.6)	*	*	*	*	*
V10Z 2-304B	Compression	12 (5.4)	—	—	—	—	10.2 (4.6)	8 (3.6)	6.5 (2.9)	5.4 (2.4)	4.5 (2)	3.2 (1.4)
	Shear	6.7 (3)	6.5 (2.9)	5.2 (2.3)	3.7 (1.7)	2.8 (1.3)	2.3 (1)	1.8 (0.8)	*	*	*	*
V10Z 2-304C	Compression	16 (7.3)	—	—	—	—	—	—	14.0 (6.4)	11.6 (5.3)	9.6 (4.4)	6.8 (3.1)
	Shear	9 (4.1)	—	9.0 (4.1)	6.3 (2.9)	4.6 (2.1)	3.6 (1.6)	2.9 (1.3)	2.3 (1.04)	1.9 (0.9)	*	*

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.

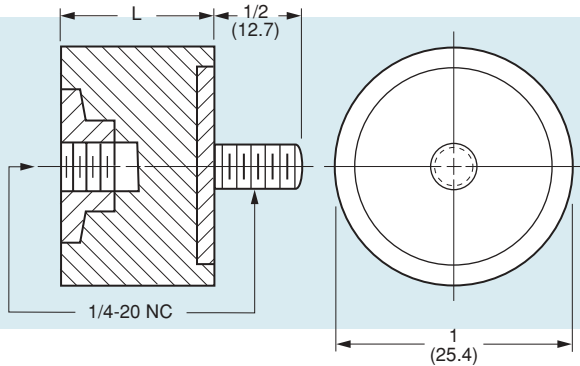


# Cylindrical Mounts – Neoprene – To 60 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolator – Neoprene

• **FOR COMPRESSION LOADS OF 33 TO 60 POUNDS (15 TO 27.2 kgf)**  
• **FOR SHEAR LOADS OF 18 TO 34 POUNDS (8.2 TO 15.4 kgf)**  
**OIL-RESISTANT ELASTOMER**



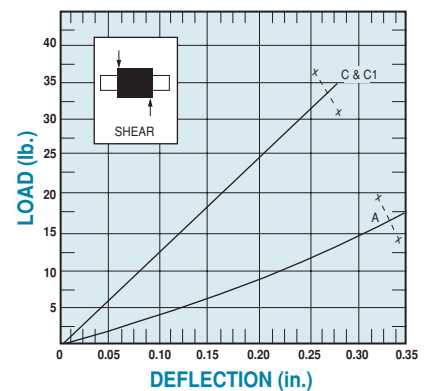
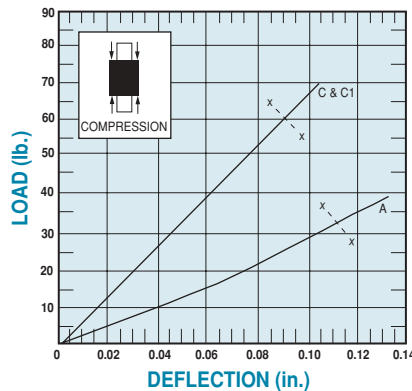
**Note:** Dimensions in ( ) are mm.

**NOTE:**

Maximum unthreaded portion of stud does not exceed 1/16 inch (1.59 mm).

**LOAD DEFLECTION GRAPHS**

Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression			Forcing Frequency in Cycles per Minute									
Catalog Number	L	Maximum Load lb. (kgf)	850	1100	1250	1500	1750	2000	2250	2500	3000	3600
			Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-306A	3/4 (19.1)	33 (15)	—	—	—	29.0 (13.2)	21.0 (9.5)	16.0 (7.3)	12.5 (5.7)	10.5 (4.8)	7.0 (3.2)	5.0 (2.3)
V10Z 2-306C	3/4 (19.1)	60 (27.2)	—	—	—	—	49.0 (22.2)	37.0 (16.8)	29.5 (13.4)	24.0 (10.9)	17.0 (7.7)	11.5 (5.2)
V10Z 2-306C1	51/64 (20.2)	60 (27.2)	—	—	—	—	49.0 (22.2)	37.0 (16.8)	29.5 (13.4)	24.0 (10.9)	17.0 (7.7)	11.5 (5.2)

Shear			Forcing Frequency in Cycles per Minute									
Catalog Number	L	Maximum Load lb. (kgf)	850	1100	1250	1500	1750	2000	2250	2500	3000	3600
			Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-306A	—	18 (8.2)	16.0 (7.3)	9.3 (4.2)	7.2 (3.3)	5.0 (2.3)	3.8 (1.7)	2.8 (1.3)	2.3 (1)	2.3 (1)	1.2 (0.5)	*
V10Z 2-306C	—	34 (15.4)	—	24.5 (11.1)	20.0 (9.1)	14.7 (6.7)	11.2 (5.1)	9.0 (4.1)	7.5 (3.4)	7.5 (3.4)	4.5 (2)	3.5 (1.6)
V10Z 2-306C1	—	34 (15.4)	—	24.5 (11.1)	20.0 (9.1)	14.7 (6.7)	11.2 (5.1)	9.0 (4.1)	7.5 (3.4)	7.5 (3.4)	4.5 (2)	3.5 (1.6)

\*At these forcing frequencies, lesser loads will yield less than 81% isolation.

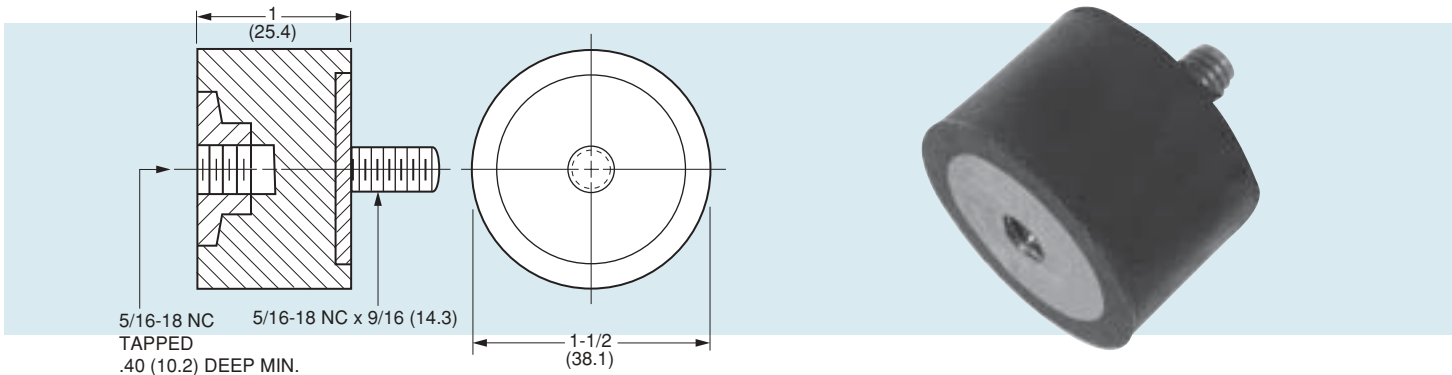


# Cylindrical Mounts – To 210 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

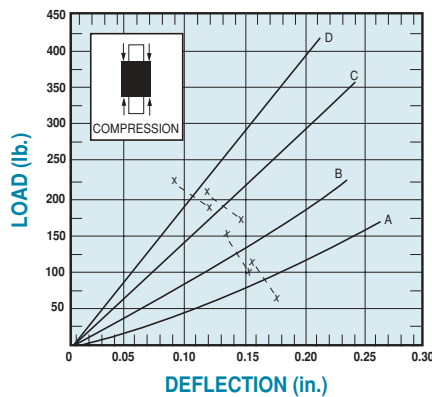
• **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

• **FOR COMPRESSION LOADS OF 95 TO 210 POUNDS (43.1 TO 95.3 kgf)**  
• **NOT RECOMMENDED FOR STATIC SHEAR LOADS**



**NOTE:** Dimensions in ( ) are mm.

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute						
Catalog Number	Maximum Load lb. (kgf)	1150	1250	1500	1750	2000	2750	3500
		Minimum Load for 81% Isolation lb. (kgf)						
V10Z 2-308A	95 (43.1)	95 (43.1)	80 (36.3)	55 (24.9)	40 (18.1)	30 (13.6)	15 (6.8)	—
V10Z 2-308B	135 (61.2)	—	125 (56.7)	85 (38.6)	60 (27.2)	45 (20.4)	22 (10)	—
V10Z 2-308C	185 (83.9)	—	—	140 (63.5)	100 (45.4)	75 (34)	40 (18.1)	25 (11.3)
V10Z 2-308D	210 (95.3)	—	—	185 (83.9)	135 (61.2)	105 (47.6)	55 (24.9)	35 (15.9)





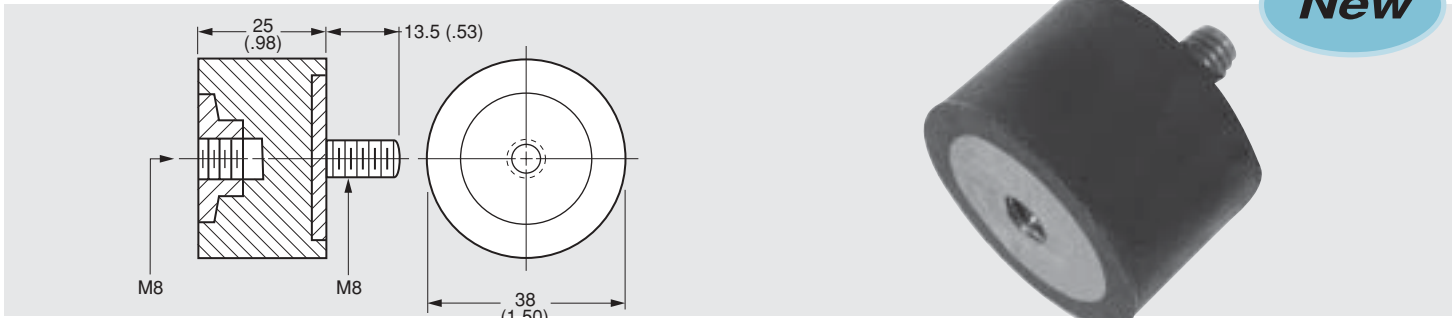
# Cylindrical Mounts – To 95 kgf

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

- **FOR COMPRESSION LOADS OF 43 TO 95 kgf (95 TO 210 lb.)**  
• **NOT RECOMMENDED FOR STATIC SHEAR LOADS**

**New**

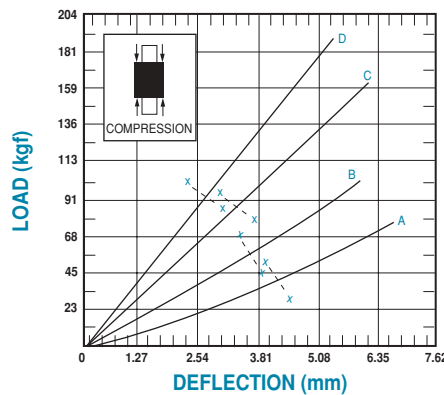


The projections shown are per ISO convention.

**NOTE:** Dimensions in ( ) are inch.

**Metric**

**LOAD DEFLECTION GRAPHS**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute						
Catalog Number	Maximum Load kgf (lb.)	1150	1250	1500	1750	2000	2750	3500
		Minimum Load for 81% Isolation kgf (lb.)						
V10Z 2M308AM08	43.1 (95)	43.1 (95)	36.3 (80)	25 (55)	18.2 (40)	13.6 (30)	6.8 (15)	—
V10Z 2M308BM08	61.2 (135)	—	56.7 (125)	38.6 (85)	27.2 (60)	20.4 (45)	10 (22)	—
V10Z 2M308CM08	83.9 (185)	—	—	63.5 (140)	45.4 (100)	34 (75)	18.2 (40)	11.3 (25)
V10Z 2M308DM08	95.3 (210)	—	—	83.9 (185)	61.2 (135)	47.6 (105)	25 (55)	15.9 (35)

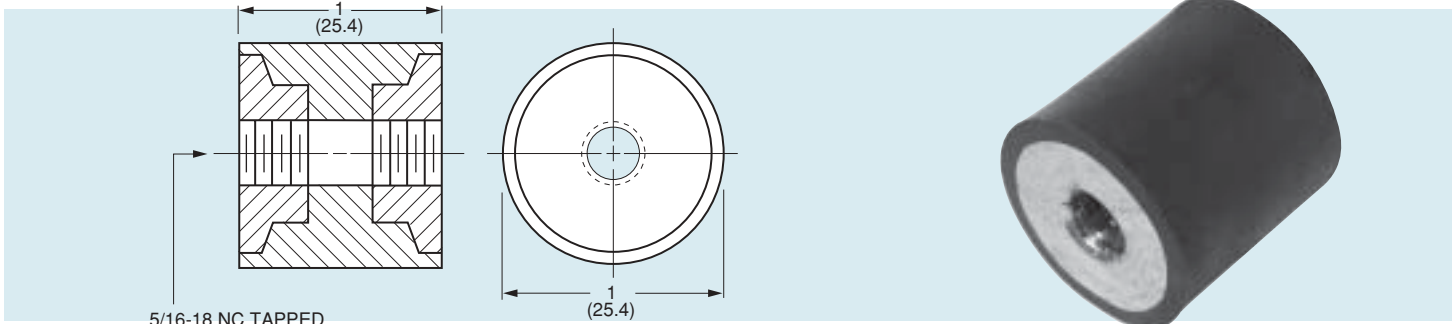


# Cylindrical Mounts – To 86 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

- **FOR COMPRESSION LOADS OF 37 TO 86 POUNDS (16.8 TO 39 kgf)**  
• **NOT RECOMMENDED FOR STATIC SHEAR LOADS**

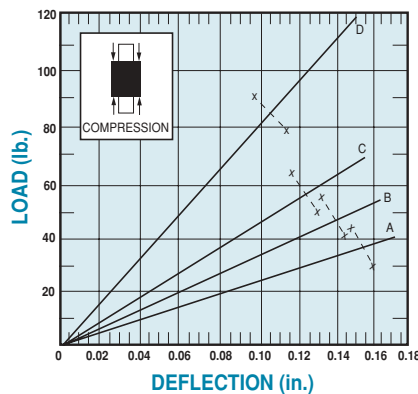


5/16-18 NC TAPPED  
.20 (5.1) DEEP MIN. (TYP)

**NOTE:** Dimensions in ( ) are mm.

### LOAD DEFLECTION GRAPHS

Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	700	950	1100	1250	1500	1750	2000	2250	2500	3000
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 2-319A	37 (16.8)	—	—	—	35.0 (15.9)	24.0 (10.9)	18.0 (8.2)	13.5 (6.1)	11.0 (5)	—	—
V10Z 2-319B	48 (21.8)	—	—	—	—	34.0 (15.4)	26.0 (11.8)	20.5 (9.3)	16.0 (7.3)	13.0 (5.9)	—
V10Z 2-319C	57 (25.9)	—	—	—	—	46.0 (20.9)	32.5 (14.7)	26.5 (12)	20.0 (9.1)	16.0 (7.3)	—
V10Z 2-319D	86 (39)	—	—	—	—	80.0 (36.3)	59.0 (26.8)	48.0 (21.8)	36.0 (16.3)	30.0 (13.6)	21.0 (9.5)

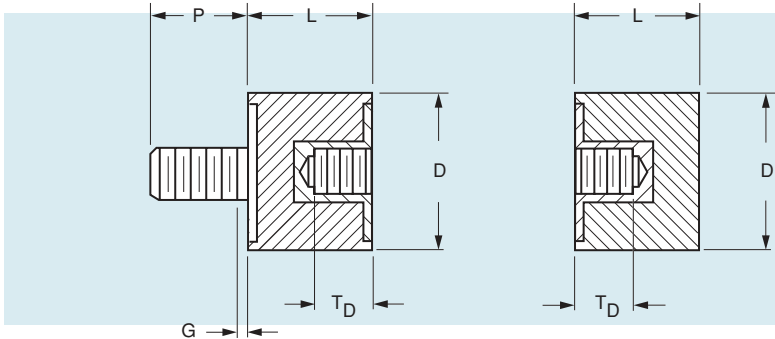


# Cylindrical Mounts – Urethane – To 45 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolater – Urethane

- **FOR COMPRESSION LOADS OF .3 TO 45 POUNDS (0.14 TO 20.4 kgf)**  
• **FOR SHEAR LOADS OF .1 TO 10 POUNDS (0.05 TO 4.5 kgf)**



Male - Female  
Fig. 1

Female - Blank  
\* Fig. 2



### FEATURES:

- Highly damped
- Very resistant to abrasion, oils, chemicals, ozone and ultraviolet radiation
- These mounts exhibit extremely low amplification at resonance and quickly return to system equilibrium after shock or vibration input

### SPECIFICATIONS

Series <sup>Δ</sup>	Durometer	Temperature Range	
		Peak Performance	Maximum Continuous
H	52	55°F To 105°F (12.8°C To 40.6°C)	195°F (90.6°C)
V	24	32°F To 90°F (0°C To 32.2°C)	120°F (48.9°C)

<sup>Δ</sup> Last letter of Catalog Number denotes Series H or V.

Catalog Number	Load lb. (kgf)		Stiffness lb./in. (kgf/mm)				Dimensions in. (mm)		Threads in. (mm)			
			Static		Dynamic				Size	P Overall Height	G Grip	T <sub>D</sub> Depth
	Cmpr. Max.	Shear*	Cmpr.	Shear*	Cmpr.	Shear*	D Diam.	L Length				
<b>• FIG 1 Male - Female</b>												
V10Z60-MF1UC04H	2.0 (0.91)	.8 (0.36)	200 (3.6)	27 (0.5)	765 (13.7)	148 (2.6)	.280 (7.1)	.320 (8.1)	#4-40	.200 (5.1)	.060 (1.5)	.110 (2.8)
V10Z60-MF1UC04V	.3 (0.14)	.1 (0.05)	31 (0.6)	4 (0.07)	120 (2.1)	23 (0.4)						
V10Z60-MF2UC06H	4.0 (1.8)	2.0 (0.91)	270 (4.8)	47 (0.84)	1049 (18.7)	208 (3.7)	.405 (10.3)	.500 (12.7)	#6-32	.375 (9.5)	.060 (1.5)	.160 (4.1)
V10Z60-MF2UC06V	.6 (0.27)	.3 (0.14)	42 (0.75)	7 (0.13)	164 (2.9)	33 (0.6)						
V10Z60-MF2UC08H	4.0 (1.8)	2.0 (0.91)	270 (4.8)	47 (0.84)	1049 (18.7)	208 (3.7)	.405 (10.3)	.500 (12.7)	#8-32	.375 (9.5)	.060 (1.5)	.160 (4.1)
V10Z60-MF2UC08V	.6 (0.27)	.3 (0.14)	42 (0.75)	7 (0.13)	164 (2.9)	33 (0.6)						
V10Z60-MF3UC25H	12.0 (5.4)	3.5 (1.6)	900 (16.1)	92 (1.6)	2350 (42)	385 (6.9)	.625 (15.9)	.625 (15.9)	1/4-20	.500 (12.7)	.100 (2.5)	.260 (6.6)
V10Z60-MF4UC31H	45.0 (20.4)	10.0 (4.5)	2580 (46.1)	230 (4.1)	6727 (120.1)	896 (16)	1.000 (25.4)	.750 (19.1)	5/16-18	.625 (15.9)	(2.5)	.290 (7.4)
<b>• FIG 2 Female - Blank</b>												
V10Z60-FB1UC04H	2.0 (0.91)	—	200 (3.6)	—	765 (13.7)	—	.280 (7.1)	.320 (8.1)	#4-40	.200 (5.1)	.060 (1.5)	.110 (2.8)
V10Z60-FB1UC04V	.3 (0.14)	—	31 (0.6)	—	120 (2.1)	—						
V10Z60-FB2UC06H	4.0 (1.8)	—	270 (4.8)	—	1049 (18.7)	—	.405 (10.3)	.500 (12.7)	#6-32	.375 (9.5)	.060 (1.5)	.160 (4.1)
V10Z60-FB2UC06V	.6 (0.27)	—	42 (0.75)	—	164 (2.9)	—						
V10Z60-FB2UC08H	4.0 (1.8)	—	270 (4.8)	—	1049 (18.7)	—	.405 (10.3)	.500 (12.7)	#8-32	.375 (9.5)	.060 (1.5)	.160 (4.1)
V10Z60-FB2UC08V	.6 (0.27)	—	42 (0.75)	—	164 (2.9)	—						
V10Z60-FB3UC25H	12.0 (5.4)	—	900 (16.1)	—	2350 (42)	—	.625 (15.9)	.625 (15.9)	1/4-20	.500 (12.7)	.100 (2.5)	.260 (6.6)
V10Z60-FB4UC31H	45.0 (20.4)	—	2580 (46.1)	—	6727 (120.1)	—	1.000 (25.4)	.750 (19.1)	5/16-18	.625 (15.9)	(2.5)	.290 (7.4)

\* Shear load data not applicable for Fig. 2 Female-Blank style.

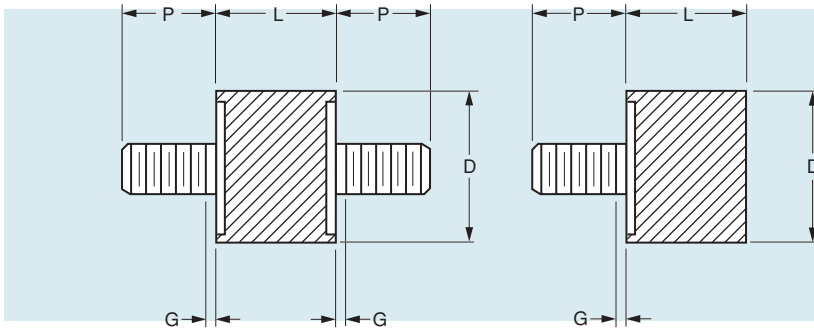


# Cylindrical Mounts – Urethane – To 45 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL: Fasteners – Steel, Zinc Plated**  
**Isolator – Urethane**

- **FOR COMPRESSION LOADS OF .5 TO 50 POUNDS (0.23 TO 22.7 kgf)**  
• **FOR SHEAR LOADS OF .2 TO 13 POUNDS (0.09 TO 5.9 kgf)**



Male - Male  
Fig. 1

Male - Blank  
\* Fig. 2



### FEATURES:

- Highly damped
- Very resistant to abrasion, oils, chemicals, ozone and ultraviolet radiation
- These mounts exhibit extremely low amplification at resonance and quickly return to system equilibrium after shock or vibration input

### SPECIFICATIONS

Series <sup>Δ</sup>	Durometer	Temperature Range	
		Peak Performance	Maximum Continuous
H	52	55°F To 105°F (12.8°C To 40.6°C)	225°F (107.2°C)
V	24	32°F To 90°F (0°C To 32.2°C)	120°F (48.9°C)

<sup>Δ</sup> Last letter of Catalog Number denotes Series H or V.

Catalog Number	Load lb. (kgf)		Stiffness lb./in. (kgf/mm)				Dimensions in. (mm)		Threads in. (mm)		
			Static		Dynamic		D Diam.	L Length	Size	P Overall Height	G Grip
	Cmpr. Max.	Shear*	Cmpr.	Shear*	Cmpr.	Shear*					
<b>• FIG 1 Male - Male</b>											
V10Z60-MM1UC04H	4.0 (1.8)	1.5 (0.7)	159 (2.8)	19 (0.3)	262 (4.7)	59 (1.1)	.280 (7.1)	.320 (8.1)	#4-40	.200 (5.1)	.060 (1.5)
V10Z60-MM1UC04V	.5 (0.23)	.2 (0.09)	25 (0.4)	3 (0.05)	40 (0.7)	9 (0.16)					
V10Z60-MM2UC06H	8.0 (3.6)	3.0 (1.36)	200 (3.6)	24 (0.4)	285 (5.1)	74 (1.3)	.405 (10.3)	.500 (12.7)	#6-32	.375 (9.5)	.060 (1.5)
V10Z60-MM2UC06V	1.0 (0.45)	.4 (0.18)	31 (0.6)	4 (0.07)	45 (0.8)	12 (0.22)					
V10Z60-MM2UC08H	8.0 (3.6)	3.0 (1.36)	200 (3.6)	24 (0.4)	285 (5.1)	74 (1.3)	.405 (10.3)	.500 (12.7)	#8-32	.375 (9.5)	.060 (1.5)
V10Z60-MM2UC08V	1.0 (0.45)	.4 (0.18)	31 (0.6)	4 (0.07)	45 (0.8)	12 (0.22)					
V10Z60-MM3UC25H	20.0 (9.1)	5.0 (2.3)	320 (5.7)	35 (0.6)	471 (8.4)	120 (2.1)	.625 (15.9)	.625 (15.9)	1/4-20	.500 (12.7)	.100
V10Z60-MM4UC31H	50.0 (22.7)	13.0 (5.9)	860 (15.4)	75 (1.3)	1108 (19.8)	270 (4.8)	1.000 (25.4)	.750 (19.1)	5/16-18	.625 (15.9)	(2.5)
<b>• FIG 2 Male - Blank</b>											
V10Z60-MB1UC04H	4.0 (1.8)	—	159 (2.8)	—	262 (4.7)	—	.280 (7.1)	.320 (8.1)	#4-40	.200 (5.1)	.060 (1.5)
V10Z60-MB1UC04V	.5 (0.23)	—	25 (0.4)	—	40 (0.7)	—					
V10Z60-MB2UC06H	8.0 (3.6)	—	200 (3.6)	—	285 (5.1)	—	.405 (10.3)	.500 (12.7)	#6-32	.375 (9.5)	.060 (1.5)
V10Z60-MB2UC06V	1.0 (0.45)	—	31 (0.6)	—	45 (0.8)	—					
V10Z60-MB2UC08H	8.0 (3.6)	—	200 (3.6)	—	285 (5.1)	—	.405 (10.3)	.500 (12.7)	#8-32	.375 (9.5)	.060 (1.5)
V10Z60-MB2UC08V	1.0 (0.45)	—	31 (0.6)	—	45 (0.8)	—					
V10Z60-MB3UC25H	20.0 (9.1)	—	320 (5.7)	—	471 (8.4)	—	.625 (15.9)	.625 (15.9)	1/4-20	.500 (12.7)	.100
V10Z60-MB4UC31H	50.0 (22.7)	—	860 (15.4)	—	1108 (19.8)	—	1.000 (25.4)	.750 (19.1)	5/16-18	.625 (15.9)	(2.5)

\* Shear load data not applicable for Fig. 2 Male-Blank style.

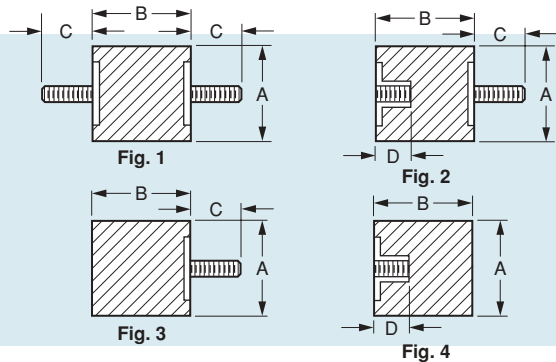


# Cylindrical Mounts – Sorbothane® Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- MATERIAL: Studs – Carbon Steel, Zinc Plated  
Damper – Sorbothane® Polyether-Based Polyurethane  
50 or 70 Shore 00 Durometer

- VIBRATION ISOLATION • SHOCK ABSORPTION
- LONG FATIGUE LIFE



**New**

SECTION I

TEMPERATURE RANGE: -20°F to +160°F (-29°C to +72°C)

Catalog Number	Fig. No.	Thread Size	A Diameter in. (mm)	B Damper Width in. (mm)	C Stud Length in. (mm)	D Thread Depth in. (mm)	Load Range Per Mount lb. (kgf)
<b>50 Durometer</b>							
V10Z59-MM0807550	1	#8-32	.75 (19.05)	.50 (12.7)	.5 (12.7)	—	4-8 (1.8-3.6)
V10Z59-MM2515050		1/4-20	1.50 (38.1)	1.00 (25.4)			11-16 (5-7.3)
V10Z59-MM2517550		1/4-20	1.75 (44.45)	.85 (21.59)			20-40 (9.1-18.1)
V10Z59-MF0807550	2	#8-32	.75 (19.05)	.50 (12.7)	.5 (12.7)	.25 (6.35)	3-6 (1.4-2.7)
V10Z59-MF2515050		1/4-20	1.50 (38.1)	1.00 (25.4)		.35 (8.89)	11-18 (5-8.2)
V10Z59-MF2517550		1/4-20	1.75 (44.45)	.85 (21.59)		.35 (8.89)	20-40 (9.1-18.1)
V10Z59-MB0807550	3	#8-32	.75 (19.05)	.50 (12.7)	.5 (12.7)	—	3-5 (1.4-2.3)
V10Z59-MB2515050		1/4-20	1.50 (38.1)	1.00 (25.4)			11-18 (5-8.2)
V10Z59-MB2517550		1/4-20	1.75 (44.45)	.85 (21.59)			20-40 (9.1-18.1)
V10Z59-FB0807550	4	#8-32	.75 (19.05)	.50 (12.7)	.5 (12.7)	.25 (6.35)	3-5 (1.4-2.3)
V10Z59-FB2515050		1/4-20	1.50 (38.1)	1.00 (25.4)		.35 (8.89)	11-18 (5-8.2)
V10Z59-FB2517550		1/4-20	1.75 (44.45)	.85 (21.59)		.35 (8.89)	20-40 (9.1-18.1)
<b>70 Durometer</b>							
V10Z59-MM0807570	1	#8-32	.75 (19.05)	.50 (12.7)	.5 (12.7)	—	8-12 (3.6-5.4)
V10Z59-MM2515070		1/4-20	1.50 (38.1)	1.00 (25.4)			19-27 (8.6-12.2)
V10Z59-MM2517570		1/4-20	1.75 (44.45)	.85 (21.59)			35-75 (15.9-34)
V10Z59-MF0807570	2	#8-32	.75 (19.05)	.50 (12.7)	.5 (12.7)	.25 (6.35)	5-12 (2.3-5.4)
V10Z59-MF2515070		1/4-20	1.50 (38.1)	1.00 (25.4)		.35 (8.89)	18-30 (8.2-13.6)
V10Z59-MF2517570		1/4-20	1.75 (44.45)	.85 (21.59)		.35 (8.89)	36-75 (16.3-34)
V10Z59-MB0807570	3	#8-32	.75 (19.05)	.50 (12.7)	.5 (12.7)	—	6-8 (2.7-3.6)
V10Z59-MB2515070		1/4-20	1.50 (38.1)	1.00 (25.4)			18-27 (8.2-12.2)
V10Z59-MB2517570		1/4-20	1.75 (44.45)	.85 (21.59)			35-75 (15.9-34)
V10Z59-FB0807570	4	#8-32	.75 (19.05)	.50 (12.7)	.5 (12.7)	.25 (6.35)	6-8 (2.7-3.6)
V10Z59-FB2515070		1/4-20	1.50 (38.1)	1.00 (25.4)		.35 (8.89)	18-27 (8.2-12.2)
V10Z59-FB2517570		1/4-20	1.75 (44.45)	.85 (21.59)		.35 (8.89)	35-75 (15.9-34)

See additional information on technical page.



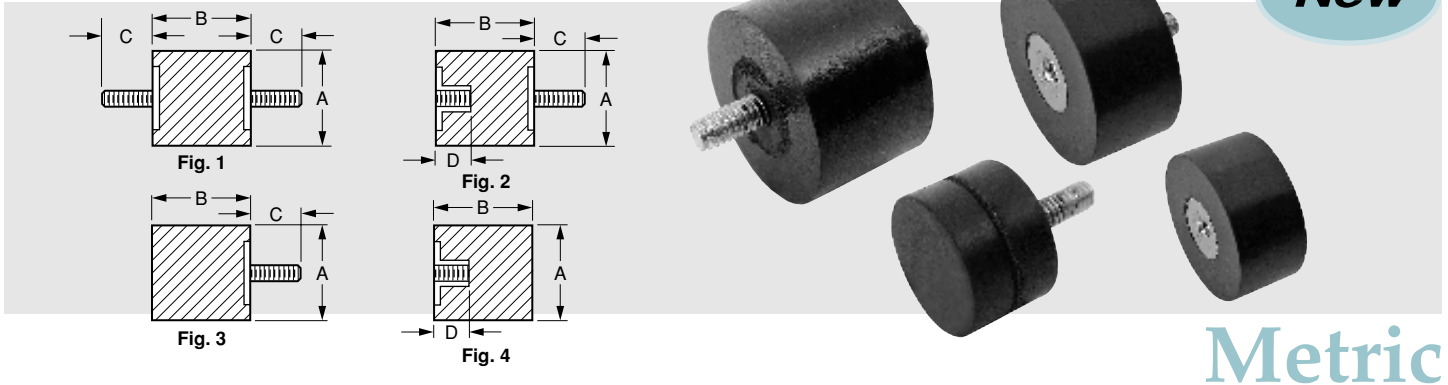
# Cylindrical Mounts – Sorbothane® Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Studs – Carbon Steel, Zinc Plated  
Damper – Sorbothane® Polyether-Based Polyurethane  
50 or 70 Shore 00 Durometer

- **VIBRATION ISOLATION**
- **SHOCK ABSORPTION**
- **LONG FATIGUE LIFE**

**New**



**Metric**

**OPERATING TEMPERATURE RANGE:** -29°C to +72°C (-20°F to +162°F)

Catalog Number	Fig. No.	Thread Size	A Diameter mm (in.)	B Damper Width mm (in.)	C Stud Length mm (in.)	D Thread Depth mm (in.)	Load Range Per Mount kgf (lb.)
<b>50 Durometer</b>							
V10Z59MMM638150	1	M6	38.1 (1.5)	25.4 (1.00)	12 (.47)	—	5-7 (11-15.4)
V10Z59MMM644550			44.5 (1.75)	21.6 (.85)			9-18 (19.8-39.7)
V10Z59MMF638150	2		38.1 (1.5)	25.4 (1.00)		13.1 (.52)	5-8 (11-17.6)
V10Z59MMF644550			44.5 (1.75)	21.6 (.85)			9-18 (19.8-39.7)
V10Z59MMB638150	3		38.1 (1.5)	25.4 (1.00)	—	5-8 (11-17.6)	
V10Z59MMB644550			44.5 (1.75)	21.6 (.85)		9-18 (19.8-39.7)	
V10Z59MFB638150	4		38.1 (1.5)	25.4 (1.00)	—	13.1 (.52)	5-8 (11-17.6)
V10Z59MFB644550			44.5 (1.75)	21.6 (.85)			9-18 (19.8-39.7)
<b>70 Durometer</b>							
V10Z59MMM638170	1	M6	38.1 (1.5)	25.4 (1.00)	12 (.47)	—	8-12 (17.6-26.5)
V10Z59MMM644570			44.5 (1.75)	21.6 (.85)			16-34 (35.3-75)
V10Z59MMF638170	2		38.1 (1.5)	25.4 (1.00)		13.1 (.52)	8-13 (17.6-28.7)
V10Z59MMF644570			44.5 (1.75)	21.6 (.85)			16-34 (35.3-75)
V10Z59MMB638170	3		38.1 (1.5)	25.4 (1.00)	—	8-12 (17.6-26.5)	
V10Z59MMB644570			44.5 (1.75)	21.6 (.85)		16-34 (35.3-75)	
V10Z59MFB638170	4		38.1 (1.5)	25.4 (1.00)	—	13.1 (.52)	8-12 (17.6-26.5)
V10Z59MFB644570			44.5 (1.75)	21.6 (.85)			16-34 (35.3-75)

See additional information on technical page.





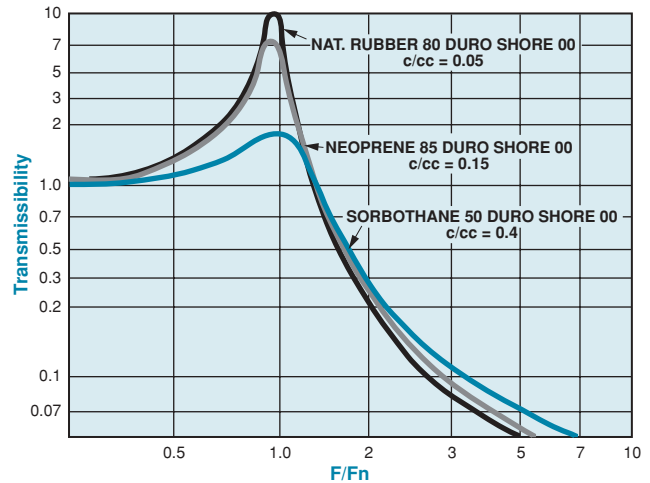
# Sorbothane® Technical Information

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

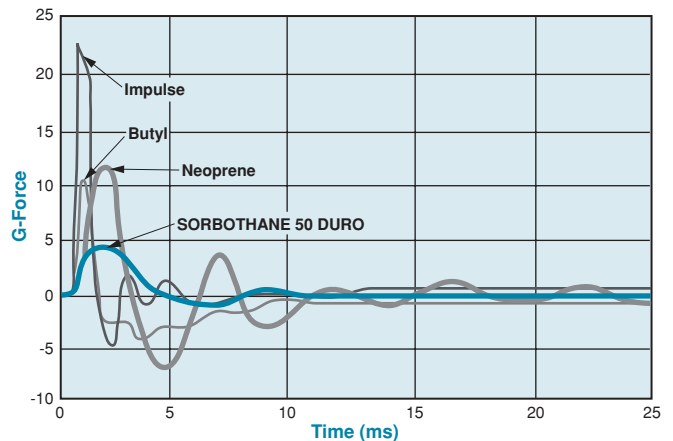
SECTION I

## Inch/Metric

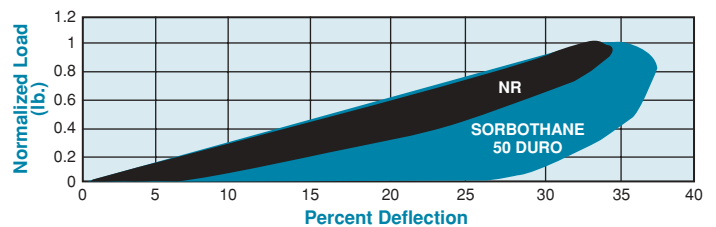
Material Properties of Sorbothane®			
Property	Durometer (Shore 00)		Units
	50	70	
Tensile Strength at Break	122.61 (0.85)	206.06 (1.42)	psi (N/mm <sup>2</sup> )
Elongation at Break	568	399	%
Tensile Elastic Stress at 100% Strain	25.47 (0.18)	66.18 (0.46)	psi (N/mm <sup>2</sup> )
Tensile Elastic Stress at 200% Strain	54.86 (0.38)	127.02 (0.88)	
Tensile Elastic Stress at 300% Strain	80.13 (0.55)	165.95 (1.14)	
Compressive Stress at 20% Strain	12.00 (0.08)	30.00 (0.21)	
Compressive Stress at 50% Strain	105.00 (0.72)	232.00 (1.60)	
Tear Strength	48.73 (8.58)	65.26 (11.49)	lb./in. (N/mm)
Bulk Modulus	2.86 (4.15 x 10 <sup>-5</sup> )	—	Pascal (psi)
Static Coefficient of Friction	10.4	4.1	—
Kinetic Coefficient of Friction	2.6	2.5	—
Density	85.0 (1.4)	84.9 (1.36)	lb./ft <sup>3</sup> (g/cm <sup>3</sup> )
Specific Gravity	1.364	1.363	—
Optimum Performance Temperature Range	-20° to +160° (-29° to +71°)	-20° to +160° (-29° to +71°)	F (C)
Glass Transition	-37.4° (-35.3°)	-34.7° (-35.3°)	C (F)
Flash Ignition Flammability	570° (299°)	—	F (C)
Self Ignition Flammability	750° (399°)	—	F (C)
Flammability Rating with Flame Retardent Added	V2	V2	—
Resilience Test Rebound Height	11	22	%
Resilience Test Rebound Height	18	25	%
Dielectric Strength	256 (10.1)	261 (10.3)	V/mil (kV/mm)
Dynamic Young's Modulus at 5 Hertz	105 (0.72)	120 (0.83)	psi (N/mm <sup>2</sup> )
Dynamic Young's Modulus at 15 Hertz	150 (1.03)	162 (1.12)	
Dynamic Young's Modulus at 30 Hertz	210 (1.45)	237 (1.63)	
Dynamic Young's Modulus at 50 Hertz	270 (1.86)	300 (2.07)	
Tangent Delta at 5 Hertz Excitation	.56	.56	
Tangent Delta at 15 Hertz Excitation	.58	.60	—
Tangent Delta at 30 Hertz Excitation	.57	.59	
Tangent Delta at 50 Hertz Excitation	.50	.55	
Bacterial Resistance	No growth		% wt change
Fungal Resistance	No growth		
Heat Aging	Stable		
Ultraviolet	Good		
Ozone	Special item		
Chemical Resistance to Hydraulic Fluid	-1.4		
Chemical Resistance to Kerosene	4.3		
Chemical Resistance to Diesel	6.4		
Chemical Resistance to Soap Solution	5.0		



Transmissibility of Sorbothane and other materials as a function of the Excitation Frequency/Natural Frequency Ratio



Response of Sorbothane and other materials to an Impulse



Hysteresis Response of Sorbothane and Natural Rubber



# Technical Information for Silicone Gel Mounts

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

SECTION I

**New**

**Metric**

General Characteristics		V10Z61MA1	V10Z61MA2 & V10Z61MB1	V10Z61MB2 & V10Z61MSF10
Specific Gravity		1.05	1.06	1.07
Hardness	Needle* Penetration (1/10 mm)	55	—	—
	Asker C**	—	33	52.5
Specific Heat J/g x K (Btu/lb. x °F)		1.52 (.36)	1.51 (.36)	1.52 (.36)
Thermal Conductivity W/m x K [Btu/(h x ft. x °F)]		0.2 (.12)	0.2 (.12)	0.2 (.12)
Volume Resistance Ohm x cm (Ohm x in.)		4.0 x 10 <sup>14</sup> (1.6 x 10 <sup>14</sup> )	3.2 x 10 <sup>14</sup> (1.3 x 10 <sup>14</sup> )	6.6 x 10 <sup>14</sup> (2.6 x 10 <sup>14</sup> )
Chemical Resistance	Toluene	+	+	+
	Acetone	+	+	+
	Methanol	-	-	-
	Distilled H2O	-	-	-
	Fuel	+	+	+
	Lubricant	+	+	+
	NaCl (10%)	-	-	-
	HCL (10%)	-	-	-
NaOH (5%)	-	-	-	
Temperature Range		-40°C to 200°C (-40°F to 392°F)	-40°C to 200°C (-40°F to 392°F)	-40°C to 200°C (-40°F to 392°F)

+ = Has a Reaction

- = No Reaction

Catalog Number	Quantity of Deflection mm (in.)	Load at Deflection kgf (lb.)
V10Z61MTHB	6.3 ±1 (.248 ±.04)	0.010 (.022)
V10Z61MTHA	3.3 ±1 (.130 ±.04)	0.010 (.022)
V10Z61MTHC	5 ±1 (.197 ±.04)	0.026 (.057)
V10Z61MHTTW	4.4 ±0.5 (.173 ±.02)	0.208 (.459)
V10Z61MMN03		0.031 (.068)
V10Z61MMN05	3.5 ±1 (.138 ±.04)	0.052 (.115)
V10Z61MMN07		0.073 (.161)
V10Z61MMN10		0.104 (.229)
V10Z61MSF02		0.031 (.068)
V10Z61MSF05	4 ±0.5 (.157 ±.02)	0.078 (.172)
V10Z61MSF10		0.146 (.322)

\*JIS K 2207

\*\*Japan Rubber Association Standard (SRIS 0101)



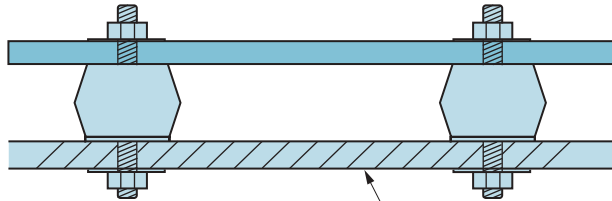
# Proper Application of Silicone Gel Mounts

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

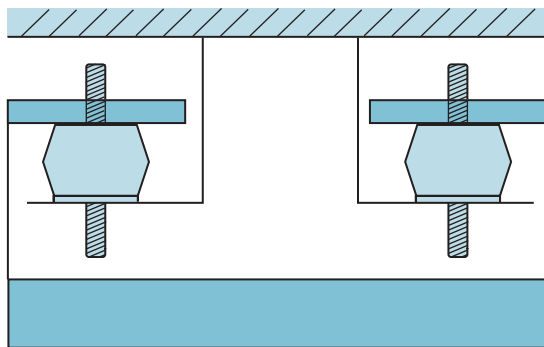
**New**

**Metric**

## RIGHT USE

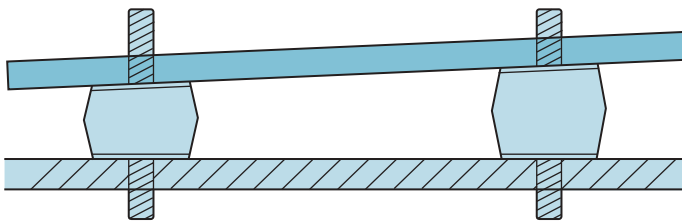


1. EVEN LOAD

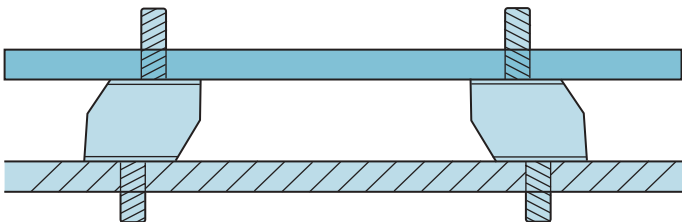


2. HANG IN COMPRESSIVE DIRECTION

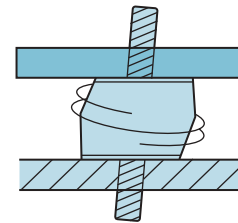
## WRONG USE



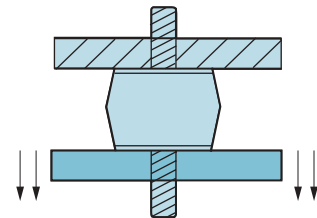
1. UNEVEN LOAD



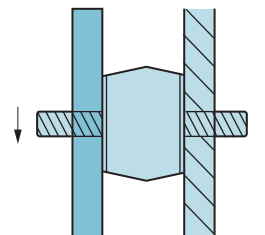
2. BOLT HOLE OUT OF CENTER



3. TWIST



4. TENSILE DIRECTION



5. SHEARING DIRECTION

## FEATURES:

- Highest damping effect arises when gel is compressed 10% up to 30%.
- Low in temperature dependency, this material offers stable performance from  $-40^{\circ}\text{C}$  to  $200^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $392^{\circ}\text{F}$ ).
- Excellent chemical resistance.
- Low in compression set.
- Performance stays the same even after repeated use.
- Contains nothing harmful. Environment-friendly.



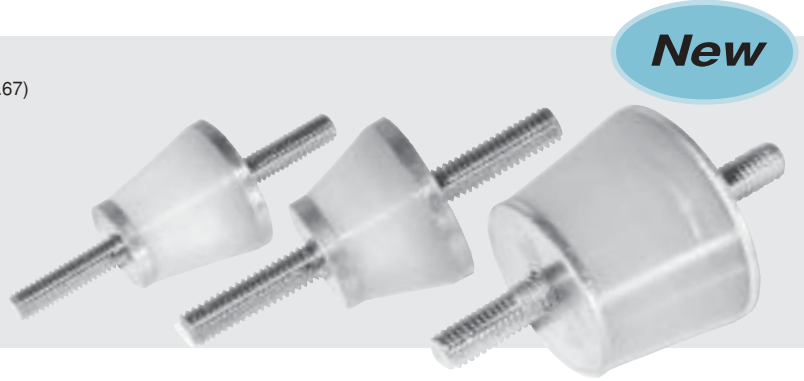
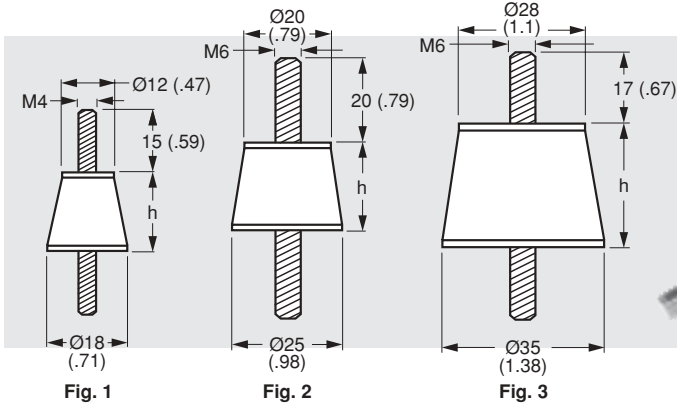
# Double-Studded Silicone Gel Vibration Mounts

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

SECTION I

- **MATERIAL: Studs** – Fig.1 & 2: Brass, Nickel Plated; Fig. 3: Iron, Unichro Plated
- Body** – Silicone Gel

- **DAMPES LOW FREQUENCY VIBRATIONS**
- **FOR SMALL TO INTERMEDIATE LOAD APPLICATIONS**
- **TO BE USED IN COMPRESSION ONLY**



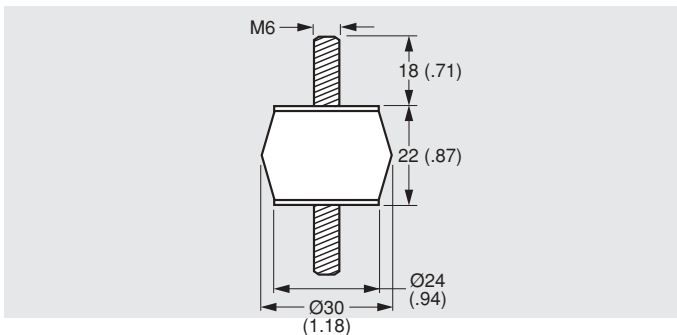
**Metric**

Note: Dimensions in ( ) are inch.

TEMPERATURE RANGE: -40°C to +200°C (-40°F to +392°F)

Catalog Number	Fig. Number	Optimum Load kgf./leg (lb./leg)	Resonance Point Hz	Resonance Magnification dB	Recommended Frequency Hz	h mm (in.)
V10Z61MTHB	1	0.4 to 0.6 (.9 to 1.3)	13 to 11	13 to 12	18 ~	18 (.71)
V10Z61MTHA		0.5 to 0.8 (1.1 to 1.8)	16 to 15	12	23 ~	12 (.47)
V10Z61MTHC	2	0.8 to 2 (1.8 to 4.4)	14 to 12	13 to 12	20 ~	18 (.71)
V10Z61MHTW	3	12.5 to 25 (27.6 to 55.1)	10 to 8	20 to 19	from 14	25 (.98)

- **MATERIAL: Studs**– Iron, Unichro Plated
- Body** – Silicone Gel



Note: Dimensions in ( ) are inch.

TEMPERATURE RANGE: -40°C to +200°C (-40°F to +392°F)

Catalog Number*	Optimum Load kgf./leg (lb./leg)	Resonance Point Hz	Resonance Magnification dB	Recommended Frequency Hz
V10Z61MMN03	2 to 3.5 (4.4 to 7.7)	12 to 10	12	17 ~
**V10Z61MMN05	3.5 to 5.5 (7.7 to 12.1)	11 to 10	14 to 13	16 ~
V10Z61MMN07	5.5 to 8.5 (12.1 to 18.7)	11 to 10	16 to 15	16 ~
V10Z61MMN10	8.5 to 12.5 (18.7 to 27.6)	11 to 10	20 to 18	16 ~

See application page for proper usage. \*\*See page 2-3 for Transmissibility Chart.  
\* This type is slotted on the stud for fixing a bolt.

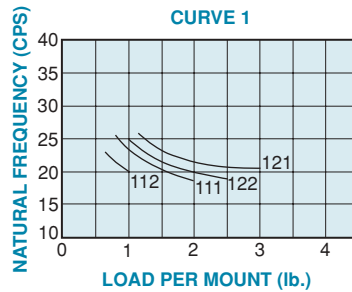
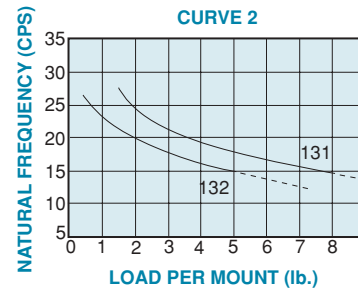
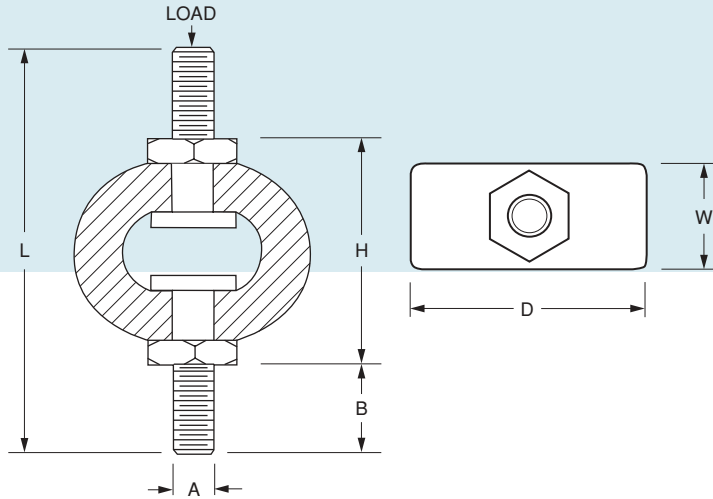


# Ring Mounts – To 20 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Fasteners – Steel, Cadmium Plated  
Isolator – Natural Rubber

• **FOR LOADS OF 1 TO 20 POUNDS (0.45 TO 9.07 kgf)**



Catalog Number	Curve	Rated Load lb. (kgf)	Dimensions							"K" Dynamic Spring Rate lb. / in. (kgf / mm)	"C" Damping Constant
			A	B	H (Load)	H (No Load)	D	L	W		
V10Z 8-112	1	1.0 (0.45)	#6-32	.50 (12.7)	.51 (13)	.56 (14.2)	.53 (13.5)	1.56 (39.6)	.31 (7.9)	90 (1.6)	.193
V10Z 8-111		2.0 (0.91)			155 (2.77)	.376					
V10Z 8-122		2.5 (1.13)	#10-32	.62 (15.7)	.58 (14.7)	.68 (17.3)	.68 (17.3)	1.93 (49)	.34 (8.6)	63 (1.13)	.025
V10Z 8-121		3.0 (1.36)			77 (1.38)	.058					
V10Z 8-132	2	5.0 (2.27)	1/4 - 20	.75 (19.1)	.81 (20.6)	.93 (23.6)	1.00 (25.4)	2.54 (64.5)	.53 (13.5)	137 (2.45)	.027
V10Z 8-131		8.0 (3.63)			210 (3.75)	.174					
V10Z 8-142	3	13.0 (5.9)	5/16-18	.62 (36.8)	1.45 (36.8)	1.75 (44.5)	1.62 (41.1)	3.00 (76.2)	.75 (19.1)	122 (2.18)	.136
V10Z 8-141		20.0 (9.07)			172 (3.07)	.262					

Static "K" is approximately 1/2 to 1/3 Dynamic Rate.

**NOTE:** Dimensions in ( ) are mm.



# Ring Mounts

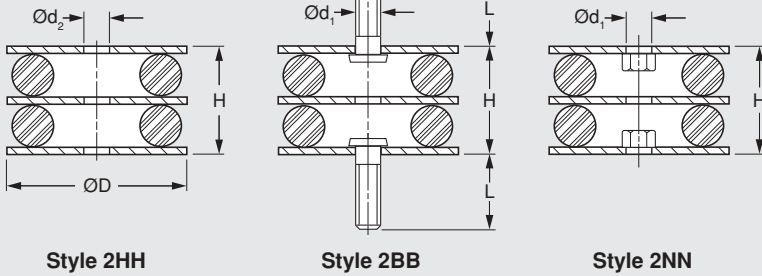
www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

SECTION I

- **MATERIAL:** Mounting Plates – Steel, plated  
Isolators – Natural Rubber

- **FOR STANDARD LOADS OF 75 TO 1200 kgf**  
(165 TO 2645 lb.)

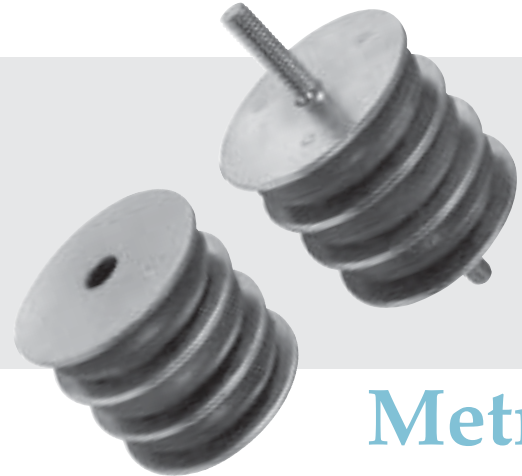
## TWO RING MOUNTS



Style 2HH

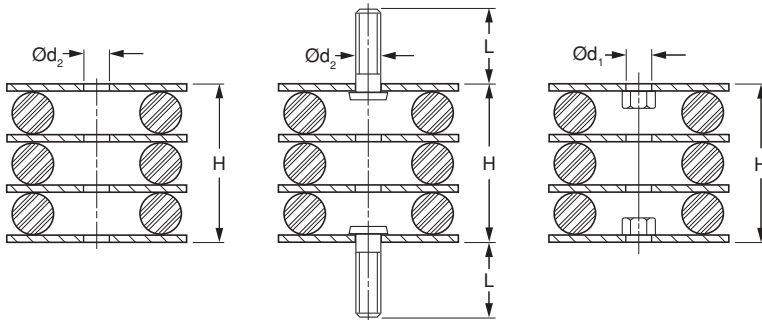
Style 2BB

Style 2NN



## Metric

## THREE RING MOUNTS



Style 3HH

Style 3BB

Style 3NN

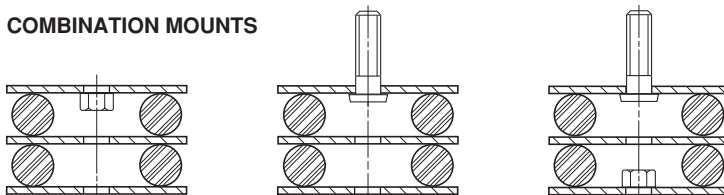
### FEATURES:

- Low natural frequency
- Constant natural frequency in a wide range of load
- Excellent stability
- Multiple layers are possible
- Very easy to install

### APPLICATIONS

- COMPRESSORS
- PUMPS
- BLOWERS
- TRANSFORMERS
- LIGHTWEIGHT MACHINES
- OFFICE EQUIPMENT
- MEASURING INSTRUMENTS
- SCALES

## COMBINATION MOUNTS



Style HN

Style HB

Style BN

**NOTE:** These combination mounts shown above are also available with three rings.

### CATALOG NUMBER DESIGNATION

V 1 0 Z 4 7 M R M □ □ □ □ □ □

Load Code

Mounting Style:  
(see drawings at left)

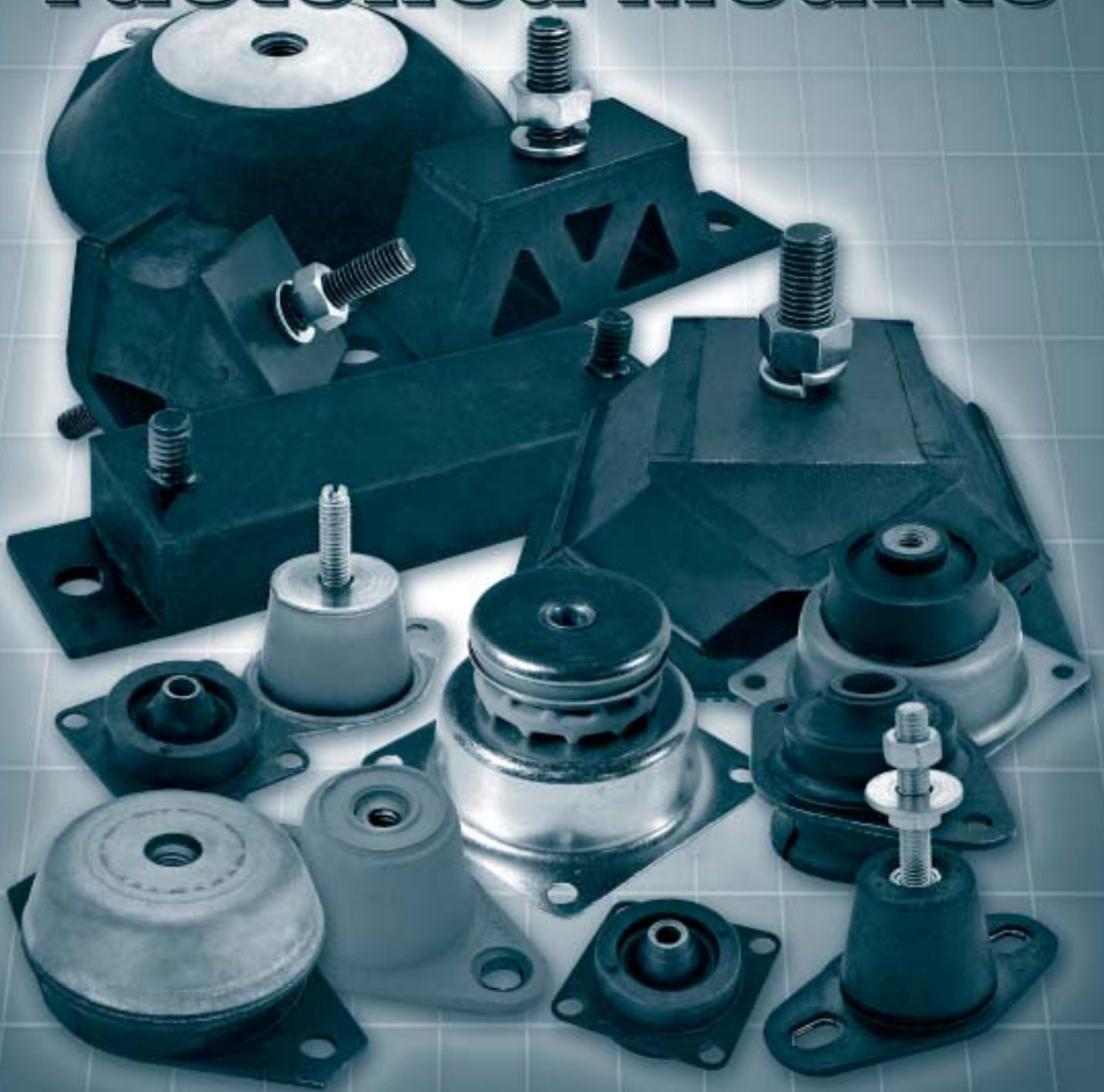
HH, BB, NN, HN, HB or BN

Load Code No.	Rings	Load Range				Defl. with Std. Load		*Nat. Freq. (cpm)	D		H		Thread	d <sub>1</sub>		d <sub>2</sub>		L	
		Standard Load		Lower Limit... Upper Limit		mm	in.		mm	in.	mm	in.		mm	in.	mm	in.	mm	in.
		kgf	lb.	kgf	lb.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
0602	2					11	.43	450	60	2.36	35	1.38	M8	11	.43				
0603	3	75	165	25...100	55...220	15	.59	370			51	2.00				30	1.18		
0802	2					14	.55	380	80	3.15	46	1.81	M10	13	.51				
0803	3	150	331	50...200	110...441	20	.79	320			67	2.64							
1202	2					20	.79	310	120	4.72	66	2.60	M12	15	.59	35	1.38		
1203	3	300	661	100...400	220...882	30	1.18	260			97	3.82							
1602	2					27	1.06	270	160	6.30	86	3.39	M16	19	.75	55	2.17		
1603	3	600	1322	200...800	440...1763	41	1.61	220			126	4.96							
2302	2					38	1.50	230	230	9.06	114	4.49	M16	19	.75	55	2.17		
2303	3	1200	2645	400...1600	882...3526	57	2.24	190			168	6.61							

\*The natural frequency of 1 layer is 2 layers natural frequency  $\times \sqrt{2}$



# Base Plate Fastened Mounts



**SECTION 2**





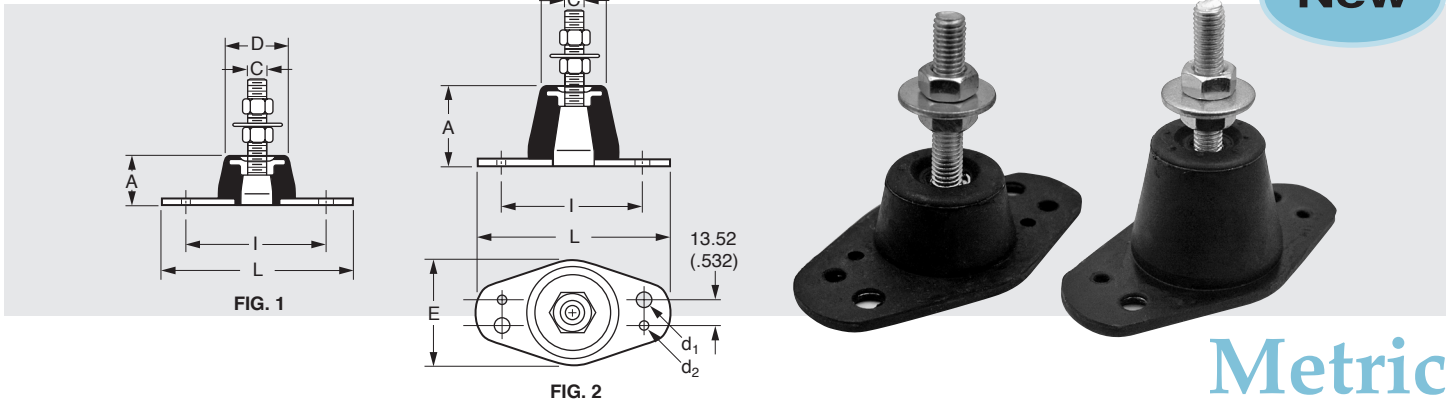
# Base Mounts – Flange Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Isolator – Ozone-Resistant Natural Rubber (55 Shore A)  
 Bolt – DIN 976  
 Nut – DIN 934 Washer – DIN 9021  
 Base – Carbon Steel

- **EXCELLENT TEAR RESISTANCE**
- **STUD IS REMOVABLE FOR FEMALE THREAD ATTACHMENT**

**New**

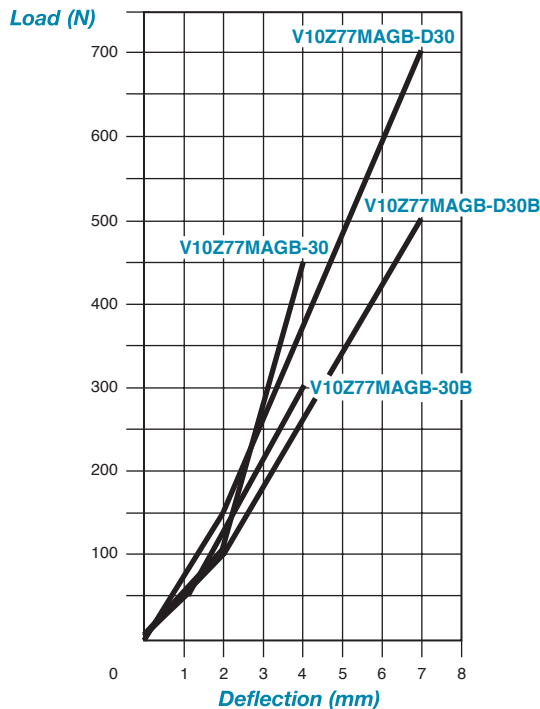


**Metric**

The projections shown are per ISO convention.

Catalog Number	Fig. No.	A mm (in.)	D mm (in.)	E mm (in.)	L mm (in.)	I mm (in.)	C	d <sub>1</sub> mm (in.)	d <sub>2</sub> mm (in.)	Maximum		Minimum		Admissible Temporary Overload %
										Load N (lb.)	Deflection mm (in.)	Load N (lb.)	Deflection mm (in.)	
V10Z77MAGB-30B	1	24 (.94)	30 (1.18)	48 (1.89)	88 (3.46)	63.6 (2.50)	M8	8 (.315)	4 (.157)	300 (67.4)	4 (.16)	50 (11.2)	1 (.039)	30
V10Z77MAGB-30										450 (101.2)		100 (22.5)		
V10Z77MAGB-D30B	2	38 (1.50)	30 (1.18)	48 (1.89)	88 (3.46)	63.6 (2.50)	M8	8 (.315)	4 (.157)	500 (112.4)	7 (.28)	150 (33.7)	2 (.079)	
V10Z77MAGB-D30										700 (157.4)		100 (22.5)		

## PERFORMANCE GRAPH



## Did You Know?

...That Advanced Antivibration Components is well-equipped to handle an entire project from the design and manufacturing of individual components to the assembly of final products? We are dedicated to quality products and on time delivery.

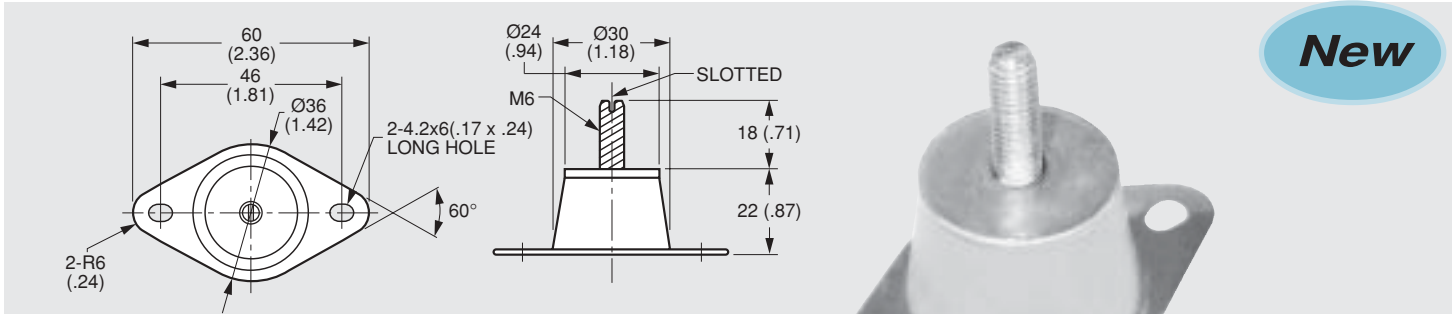


# Base Mounts – Silicone Gel Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Stud – Steel, Unichro Plated  
Body – Silicone Gel  
Flange Plate – Stainless Steel

- DAMPS LOW FREQUENCY VIBRATIONS
- FOR SMALL TO INTERMEDIATE LOAD APPLICATIONS
- CAN BE USED WHEN SPACE IS LIMITED
- TO BE USED IN COMPRESSION ONLY



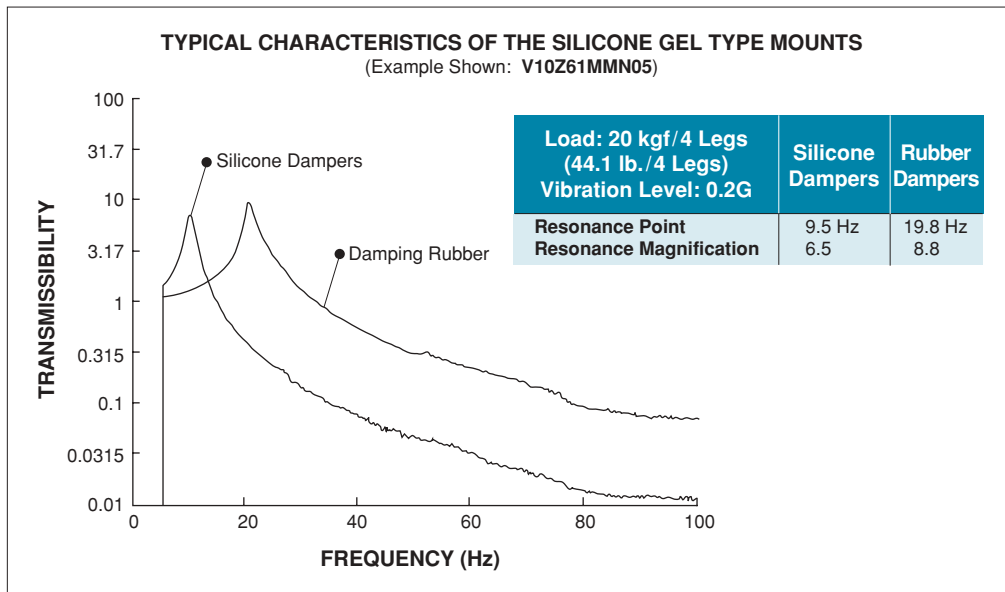
NOTE: Dimensions in ( ) are inch.

Metric

SECTION 2

TEMPERATURE RANGE: -40°C to +200°C (-40°F to +392°F)

Catalog Number	Optimum Load kgf/leg (lb./leg)
V10Z61MSF02	1.25 to 3.25 (2.8 to 7.2)
V10Z61MSF05	3.25 to 7.5 (7.2 to 16.5)
V10Z61MSF10	7.5 to 12.5 (16.5 to 27.6)





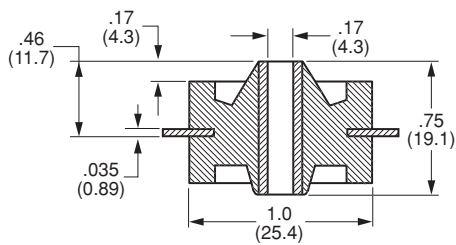
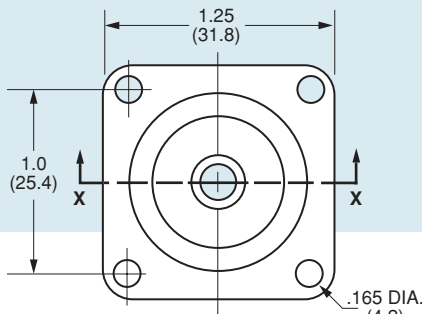
# Platemounts – To 20 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

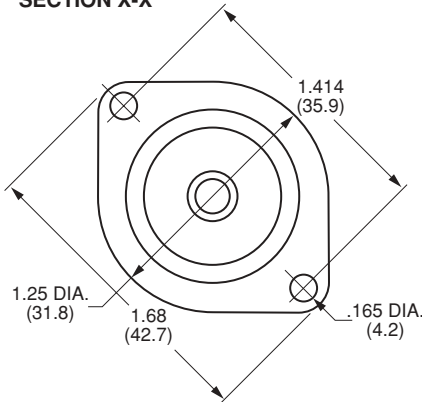
• **MATERIAL:** Isolator – Natural Rubber  
Base – Steel or Aluminum

• **FOR LOADS OF 4 TO 20 POUNDS (1.8 TO 9.1 kgf)**

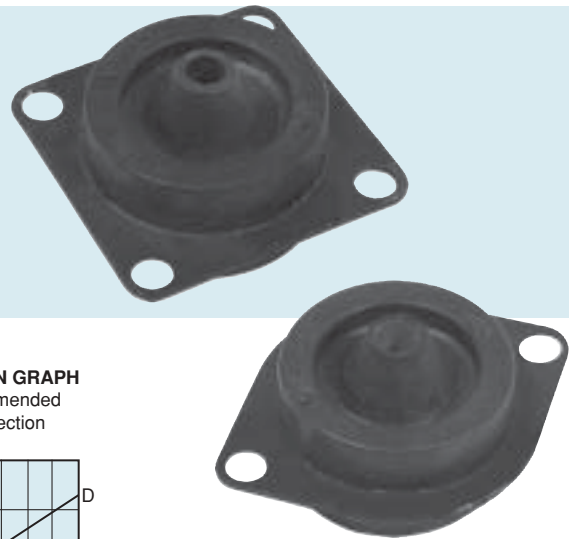
SECTION 2



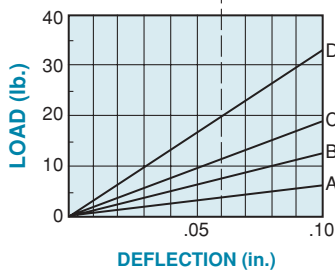
SECTION X-X



NOTE: Dimensions in ( ) are mm.



LOAD/DEFLECTION GRAPH  
Maximum Recommended  
Static Load/Deflection



	Base Type Square	Aluminum	Steel
	Catalog Number	*V10Z40-1210A1 V10Z40-1210B1 V10Z40-1210C1 V10Z40-1210D1	— — V10Z40-1210C3 —
	Base Type Diamond	Aluminum	Steel
	Catalog Number	V10Z40-1210A2 V10Z40-1210B2 V10Z40-1210C2 V10Z40-1210D2	— V10Z40-1210B4 V10Z40-1210C4 V10Z40-1210D4

NOTE: The above platemounts are available in Neoprene as a special order (200 pc. minimum).

Load Rating	Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute			
		1900	2500	3000	4000
Minimum Load for 81% Isolation lb. (kgf)					
A	4 (1.8)	4 (1.8)	2 (0.9)	1.5 (0.7)	1 (0.5)
B	8 (3.6)	8 (3.6)	4 (1.8)	3.0 (1.4)	2 (0.9)
C	12 (5.4)	12 (5.4)	7 (3.2)	5.0 (2.3)	3 (1.4)
D	20 (9.1)	20 (9.1)	11 (5)	8.0 (3.6)	5 (2.3)

\*To be discontinued when present stock is depleted.



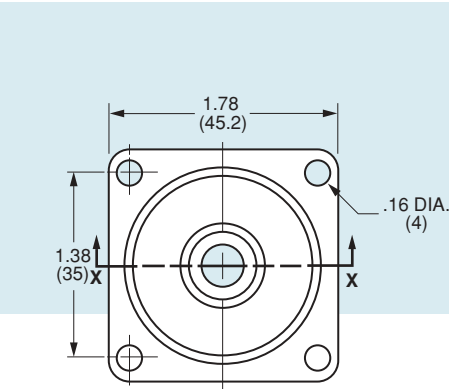
# Platemounts – To 26 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

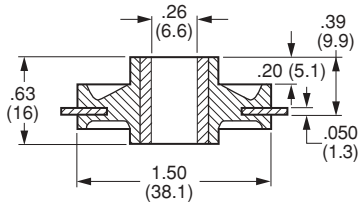
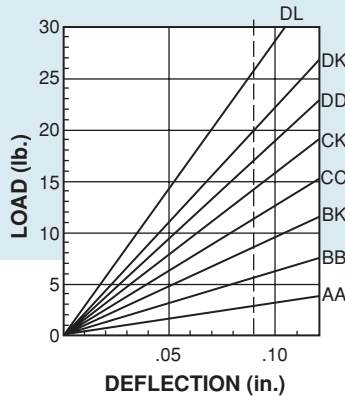
• **MATERIAL:** Isolator – Natural Rubber  
Base – Steel or Aluminum

• **FOR LOADS OF 3 TO 26 POUNDS (1.4 TO 11.8 kgf)**

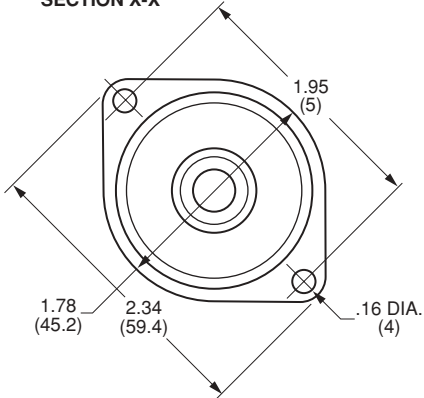
SECTION 2



**LOAD/DEFLECTION GRAPH**  
Maximum Recommended Static Load/Deflection



SECTION X-X



NOTE: Dimensions in ( ) are mm.

Base Type	Aluminum	Steel
<b>Square</b>	—	—
<b>Catalog Number</b>	V10Z40-1215BB1	V10Z40-1215BB3
	V10Z40-1215BK1	—
	V10Z40-1215CC1	V10Z40-1215CC3
	V10Z40-1215CK1	V10Z40-1215CK3
	V10Z40-1215DD1	—
	V10Z40-1215DK1	—
	V10Z40-1215DL1	V10Z40-1215DL3
Base Type	Aluminum	Steel
<b>Diamond</b>	—	—
<b>Catalog Number</b>	V10Z40-1215AA2	V10Z40-1215AA4
	V10Z40-1215BB2	V10Z40-1215BB4
	V10Z40-1215BK2	—
	V10Z40-1215CC2	V10Z40-1215CC4
	—	V10Z40-1215CK4
	V10Z40-1215DD2	V10Z40-1215DD4
	—	V10Z40-1215DK4
—	—	

NOTE: 1. The above platemounts are available in Neoprene as a special order (200 pc. minimum).  
2. The above platemounts may be discontinued but are still available in large quantities.

Load Rating	Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute						
		1600	1750	2000	2500	3000	3500	4000
Minimum Load for 81% Isolation lb. (kgf)								
AA	3 (1.4)	3 (1.4)	2 (0.9)	1.7 (0.8)	1.0 (0.5)	.8 (0.4)	.6 (0.3)	.4 (0.2)
BB	6 (2.7)	6 (2.7)	5 (2.3)	3.5 (1.6)	2.0 (0.9)	1.6 (0.7)	1.2 (0.5)	.8 (0.4)
BK	9 (4.1)	9 (4.1)	7 (3.2)	5.0 (2.3)	3.0 (1.4)	2.4 (1.1)	1.7 (0.8)	1.3 (0.6)
CC	12 (5.4)	12 (5.4)	9 (4.1)	7.0 (3.2)	4.5 (2)	3.0 (1.4)	2.2 (1)	1.7 (0.8)
CK	14 (6.4)	14 (6.4)	11 (5)	9.0 (4.1)	5.5 (2.5)	4.0 (1.8)	2.8 (1.3)	2.2 (1)
DD	17 (7.7)	17 (7.7)	13 (5.9)	11.0 (5)	6.5 (2.9)	5.0 (2.3)	3.4 (1.5)	2.6 (1.2)
DK	20 (9.1)	20 (9.1)	16 (7.3)	12.0 (5.4)	8.0 (3.6)	5.5 (2.5)	4.0 (1.8)	3.0 (1.4)
DL	26 (11.8)	26 (11.8)	20 (9.1)	16.0 (7.3)	10.0 (4.5)	7.0 (3.2)	5.0 (2.3)	4.0 (1.8)

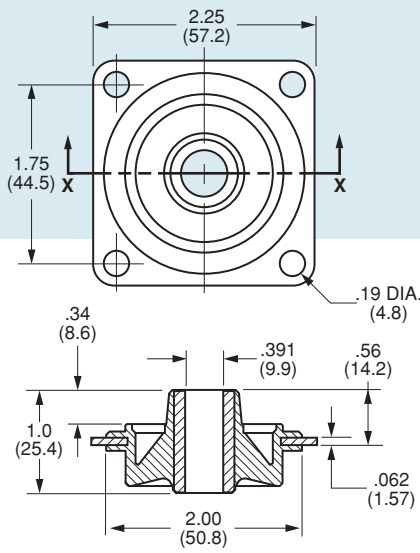


# Platemounts – To 60 lbs.

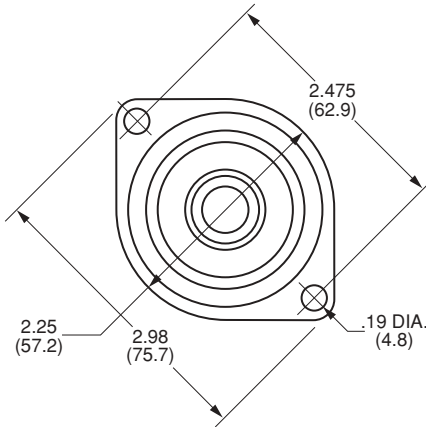
www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Isolator – Natural Rubber  
Base – Steel or Aluminum

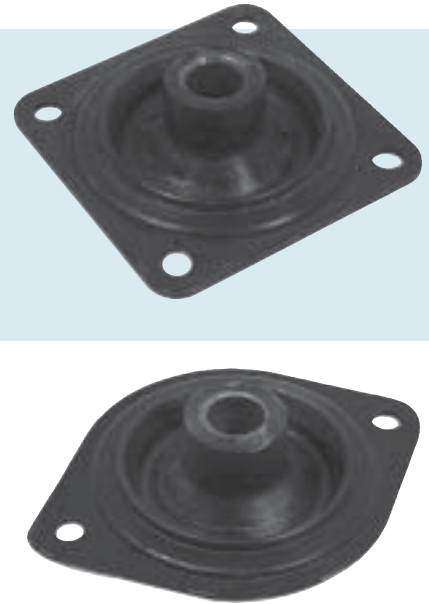
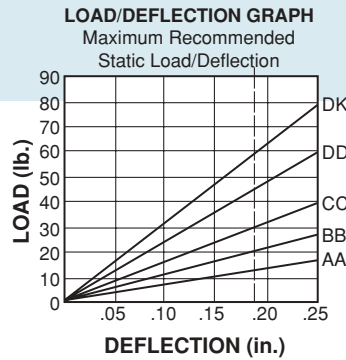
- **FOR LOADS OF 12 TO 60 POUNDS (5.4 TO 27.2 kgf)**



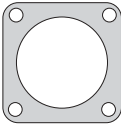
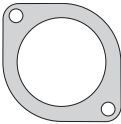
SECTION X-X



NOTE: Dimensions in ( ) are mm.



SECTION 2

	<b>Base Type</b>	Steel	
	<b>Catalog Number</b>	— — V10Z40-1260CC3 V10Z40-1260DD3 V10Z40-1260DK3	
	<b>Base Type</b>	Aluminum	Steel
	<b>Catalog Number</b>	V10Z40-1260AA2	V10Z40-1260AA4
		—	V10Z40-1260BB4
		V10Z40-1260CC2	V10Z40-1260CC4
		V10Z40-1260DD2	V10Z40-1260DD4
	V10Z40-1260DK2	V10Z40-1260DK4	

- NOTE: 1. The above platemounts are available in Neoprene as a special order (200 pc. minimum).  
2. The above platemounts may be discontinued but are still available in large quantities.

Load Rating	Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute							
		1100	1250	1500	1750	2000	2500	3000	3500
<b>Minimum Load for 81% Isolation lb. (kgf)</b>									
AA	12 (5.4)	12 (5.4)	10 (4.5)	7 (3.2)	5 (2.3)	3 (1.4)	2 (0.9)	2 (0.9)	1 (0.5)
BB	20 (9.1)	20 (9.1)	16 (7.3)	11 (5)	7 (3.2)	6 (2.7)	4 (1.8)	3 (1.4)	2 (0.9)
CC	30 (13.6)	30 (13.6)	23 (10.4)	15 (6.8)	11 (5)	9 (4.1)	5 (2.3)	4 (1.8)	3 (1.4)
DD	45 (20.4)	45 (20.4)	35 (15.9)	23 (10.4)	17 (7.7)	13 (5.9)	8 (3.6)	6 (2.7)	4 (1.8)
DK	60 (27.2)	60 (27.2)	47 (21.3)	31 (14.1)	22 (10)	17 (7.7)	11 (5)	7 (3.2)	6 (2.7)



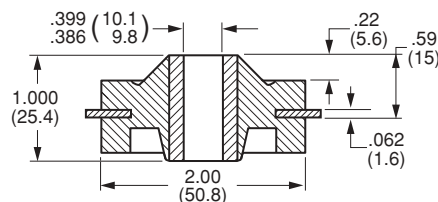
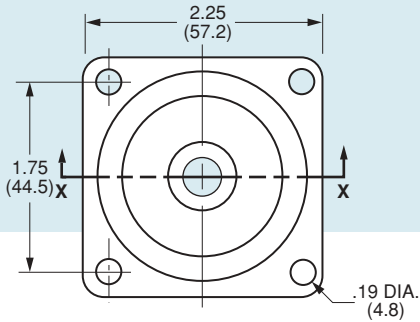
# Platemounts – To 90 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

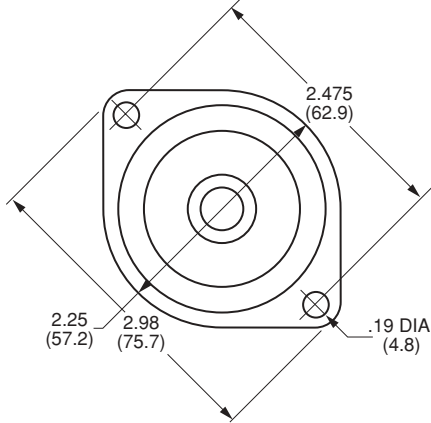
- **MATERIAL:** Isolator – Natural Rubber  
Base – Steel or Aluminum

- **FOR LOADS OF 30 TO 90 POUNDS (13.6 TO 40.8 kgf)**

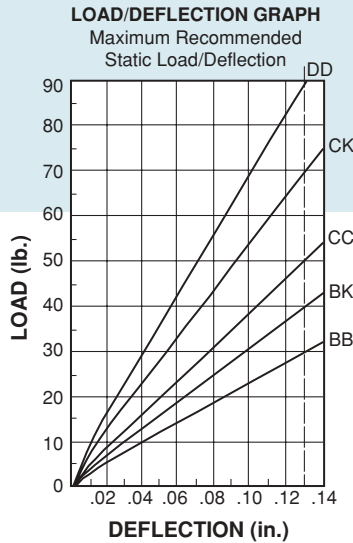
SECTION 2



SECTION X-X



NOTE: Dimensions in ( ) are mm.



Base Type	Square	
	Aluminum	Steel
Catalog Number	—	V10Z40-1220BB3
	V10Z40-1220BK1	—
	—	V10Z40-1220CC3
	V10Z40-1220DD1	V10Z40-1220DD3

Base Type	Diamond	
	Aluminum	Steel
Catalog Number	—	V10Z40-1220BB4
	—	V10Z40-1220BK4
	—	—
	—	V10Z40-1220CK4
	V10Z40-1220DD2	V10Z40-1220DD4

NOTE: 1. The above platemounts are available in Neoprene as a special order (200 pc. minimum).  
2. The above platemounts may be discontinued but are still available in large quantities.

Load Rating	Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute						
		1325	1750	2000	2500	3500	3000	4000
Minimum Load for 81% Isolation lb. (kgf)								
BB	30 (13.6)	30 (13.6)	17 (7.7)	13 (5.9)	8.4 (3.8)	6.0 (2.7)	4.3 (2)	3.3 (1.5)
BK	40 (18.1)	40 (18.1)	23 (10.4)	18 (8.2)	11.0 (5)	7.8 (3.5)	5.7 (2.6)	4.4 (2)
CC	50 (22.7)	50 (22.7)	29 (13.2)	22 (10)	14.0 (6.4)	10.0 (4.5)	7.2 (3.3)	5.5 (2.5)
CK	70 (31.8)	70 (31.8)	40 (18.1)	31 (14.1)	20.0 (9.1)	14.0 (6.4)	10.0 (4.5)	7.0 (3.2)
DD	90 (40.8)	90 (40.8)	52 (23.6)	40 (18.1)	25.0 (11.3)	18.0 (8.2)	13.0 (5.9)	10.0 (4.5)

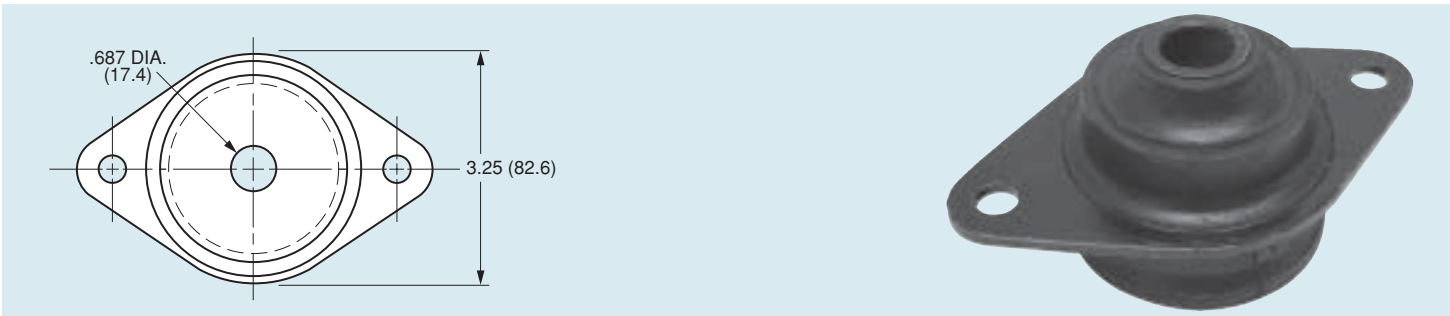


# Platemounts – To 760 lbs.

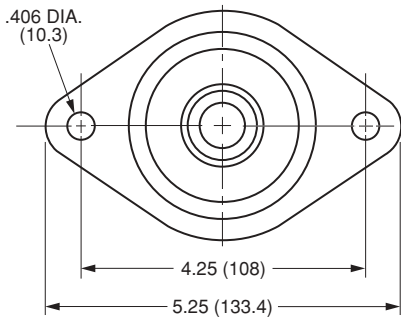
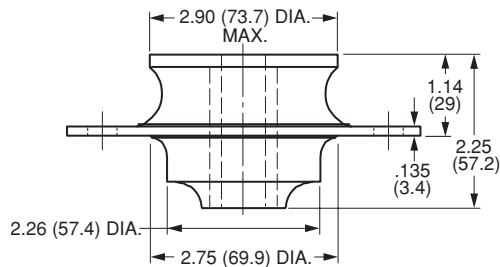
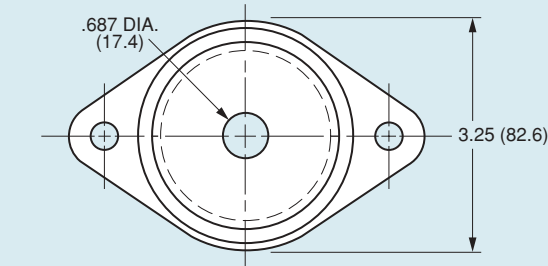
www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- MATERIAL: Isolator – Natural Rubber  
Base – Steel

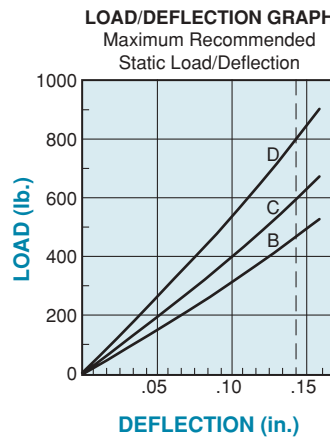
- FOR LOADS OF 440 TO 760 POUNDS (200 TO 344.7 kgf)



SECTION 2



NOTE: Dimensions in ( ) are mm.



Catalog Number	Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute						
		1300	1500	2000	2500	3000	3500	4000
V10Z40-1280B	440 (200)	440 (200)	300 (136)	160 (72.6)	100 (45.4)	70 (31.8)	50 (22.7)	40 (18.1)
A10Z40-1280C	560 (254)	560 (254)	380 (172.4)	200 (90.7)	120 (54.4)	90 (40.8)	60 (27.2)	50 (22.7)
A10Z40-1280D	760 (344.7)	760 (344.7)	520 (235.9)	270 (122.5)	170 (77.1)	120 (54.4)	90 (40.8)	70 (31.8)

NOTE: The above platemounts are available in Neoprene as a special order (200 pc. minimum).



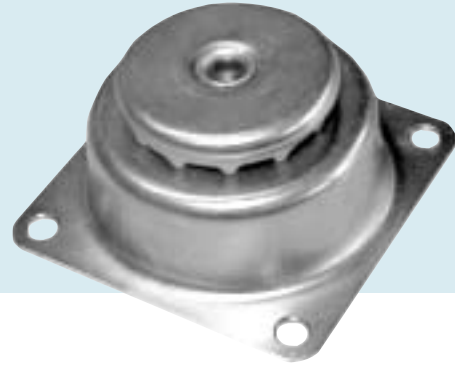
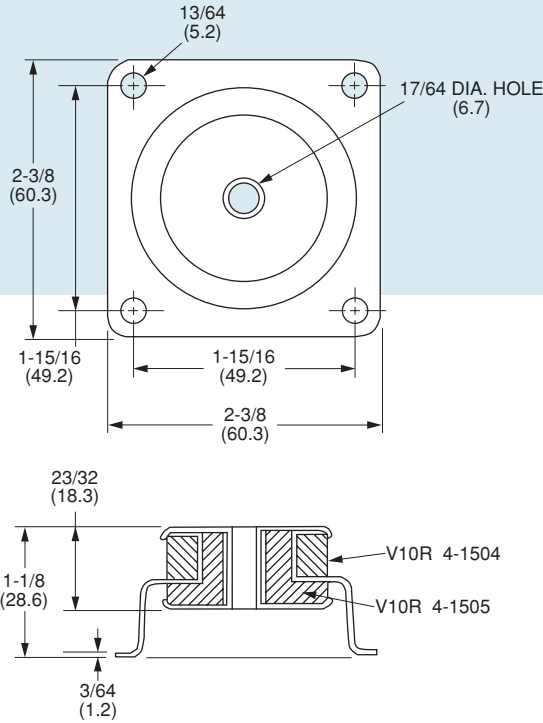


# Finger-Flex Assemblies

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL: Housing** – Zinc Plated Steel with Clear Dichromate Sealer
- Isolator** – Rubber

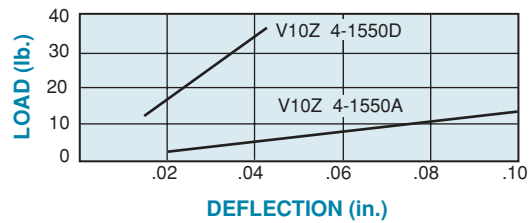
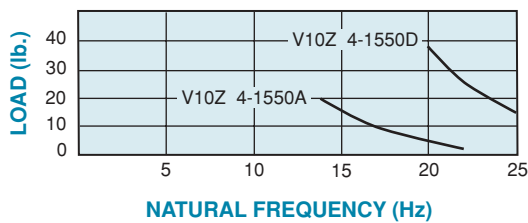
- **FOR LOADS OF 6 TO 37 POUNDS (2.7 TO 16.8 kgf)**



Assembled style **V10Z 4-** mounts are supplied with rubber bushings and rings permanently installed within a convenient cadmium plated metal mounting cup. Load is supported by the top surface of the assembly which has a 17/64 (6.7 mm) diameter clearance hole to accommodate a screw fastener from the load member. The cup base dimensions and mounting hole pattern conform to MIL size 2 specifications. The rubber isolation members are similar to the FINGER-FLEX **V10R 4-1504** and **V10R 5-1505** series.

NOTE: Dimensions in ( ) are mm.

NATURAL FREQUENCY: 6–30 Hz



Catalog Number	Load Type Compression, lb. (kgf) per mount		Approximate Hardness Durometer
	min.	max.	
V10Z 4-1550A	6 (2.7)	20 (9.1)	30
V10Z 4-1550D	15 (6.8)	37 (16.8)	60



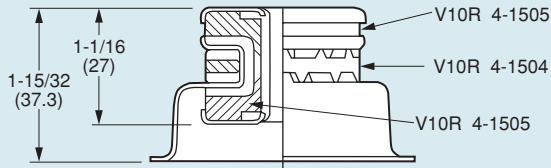
# Finger-Flex Assemblies

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Fasteners – Cadmium Plated Steel  
Isolater – Rubber

• **FOR LOADS UP TO 35 POUNDS (15.9 kgf)**

Fig. 1



NOTE: Dimensions in ( ) are mm.

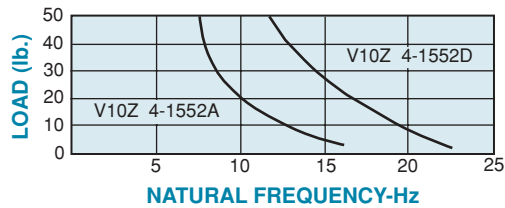
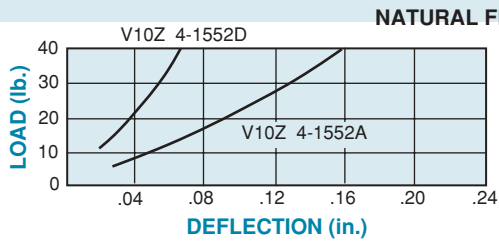
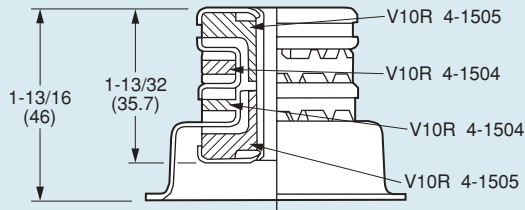
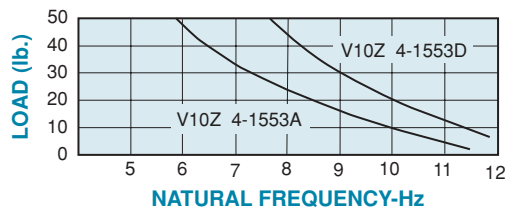
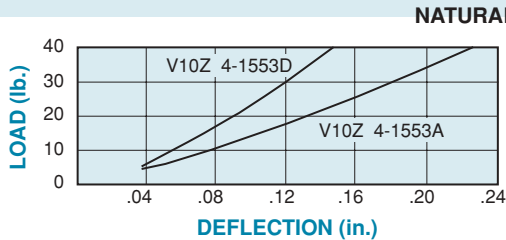


Fig. 2



NOTE: Dimensions in ( ) are mm.



Catalog Number	Approximate Hardness Durometer
<b>• FIG 1</b>	
V10Z 4-1552A	30
V10Z 4-1552D	60
<b>• FIG 2</b>	
V10Z 4-1553A	30
V10Z 4-1553D	60

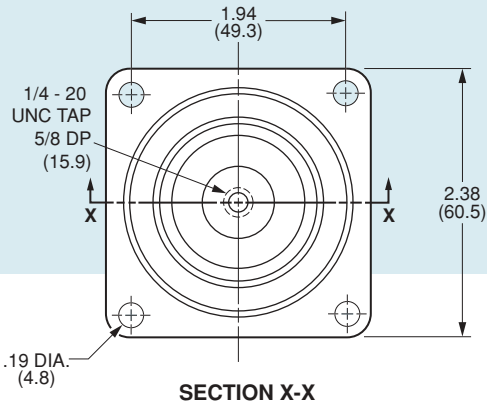


# Cup Mounts – To 135 lbs.

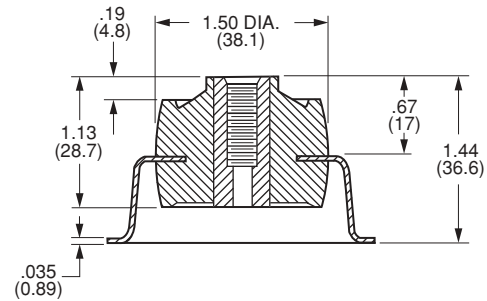
www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Isolator – Natural Rubber  
Base – Steel, Cadmium Plated

• **FOR LOADS OF 33 TO 135 POUNDS (15 TO 61 kgf)**

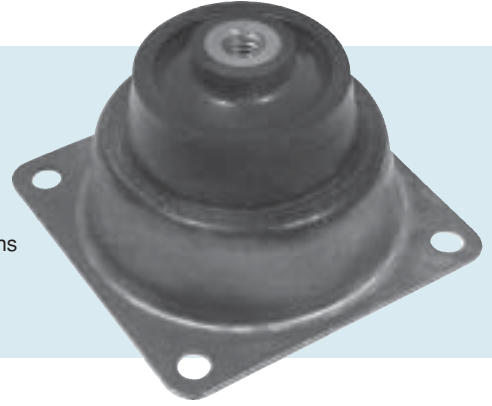
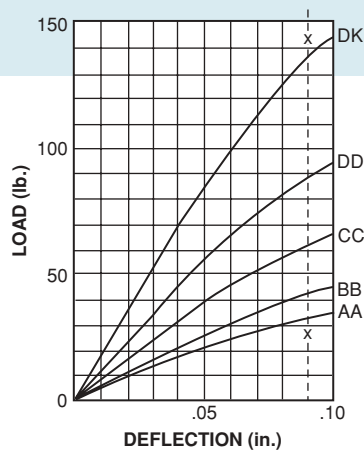


**NOTE:** Dimensions in ( ) are mm.



### LOAD/DEFLECTION GRAPH

Deflections below the line x--x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



SECTION 2

Catalog Number	Maximum Rating lb. (kgf)	Forcing Frequency in Cycles per Minute						
		1600	1750	2000	2500	3000	3500	4000
		Maximum Load for 81% Isolation lb. (kgf)						
V10Z40-1240AA	33 (15)	33 (15)	27 (12.2)	22 (10)	14 (6.4)	10 (4.5)	7 (3.2)	6 (2.7)
V10Z40-1240BB	42 (19.1)	42 (19.1)	34 (15.4)	28 (12.7)	18 (8.2)	13 (5.9)	9 (4.1)	7 (3.2)
V10Z40-1240CC	62 (28.1)	62 (28.1)	51 (23.1)	42 (19.1)	27 (12.2)	19 (8.6)	14 (6.4)	11 (5)
V10Z40-1240DD	90 (40.8)	90 (40.8)	74 (33.6)	60 (27.2)	39 (17.7)	28 (12.7)	20 (9.1)	16 (7.3)
V10Z40-1240DK	135 (61.2)	135 (61.2)	114 (51.7)	93 (42.2)	60 (27.2)	43 (19.5)	30 (13.6)	24 (10.9)

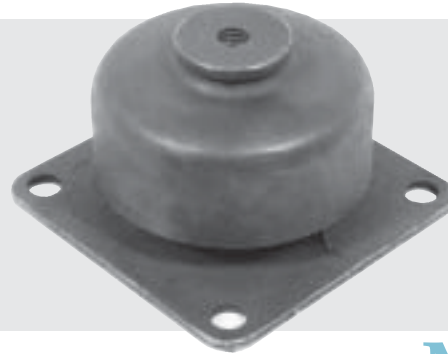
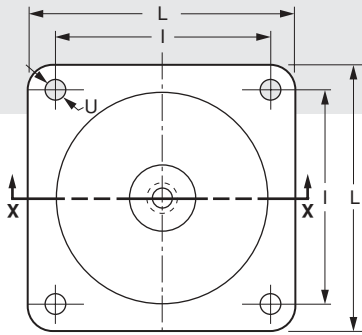
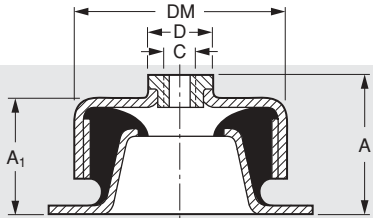


# Base Mounts – Cylindrical Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- MATERIAL: Isolator – Natural Rubber  
Base – Carbon Steel

- LATERAL STIFFNESS 3 TO 4 TIMES GREATER THAN AXIAL STIFFNESS



**New**

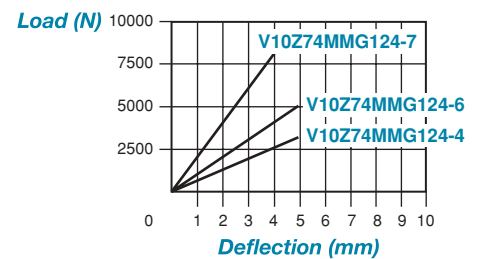
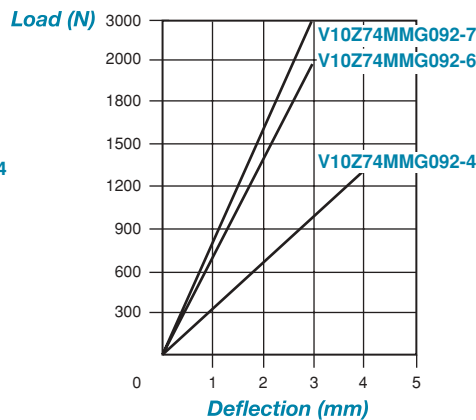
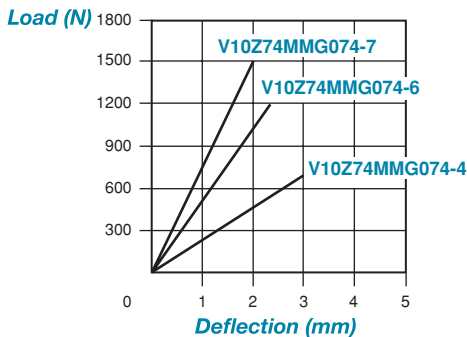
Metric

SECTION 2

The projections shown are per ISO convention.

Catalog Number	DM mm (in.)	A mm (in.)	A <sub>1</sub> mm (in.)	C	I mm (in.)	U mm (in.)	L mm (in.)	D mm (in.)	Hardness Shore A	Max. Load in Compression N (lb.)	Deflection mm (in.)
V10Z74MMG074-4	74 (2.91)	53 (2.09)	42 (1.65)	M10	72 (2.84)	9 (.35)	90 (3.54)	32 (1.26)	45	700 (157)	3 (.12)
60									1200 (270)	2.5 (.10)	
75									1750 (393)	2 (.08)	
V10Z74MMG092-4	92 (3.62)	63 (2.48)	53 (2.09)	M12	90 (3.54)	11 (.43)	114 (4.49)	36 (1.42)	45	1400 (315)	4 (.16)
60									2000 (450)	3 (.12)	
75									3000 (674)	2.5 (.10)	
V10Z74MMG124-4	124 (4.88)	94 (3.70)	75 (2.95)	M16	114 (4.49)	13 (.51)	144 (5.67)	60 (2.36)	45	3600 (809)	5 (.20)
60									5000 (1124)	5 (.20)	
75									8000 (1798)	4 (.16)	

## PERFORMANCE GRAPHS





# Base Mounts – Cylindrical Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- MATERIAL: Isolator – Natural Rubber  
Base – Carbon Steel, Zinc Plated

- LIMITED SIDE DEFLECTIONS • EASY LEVELING
- LOW MAINTENANCE

**New**

Fig. 1



Fig. 2

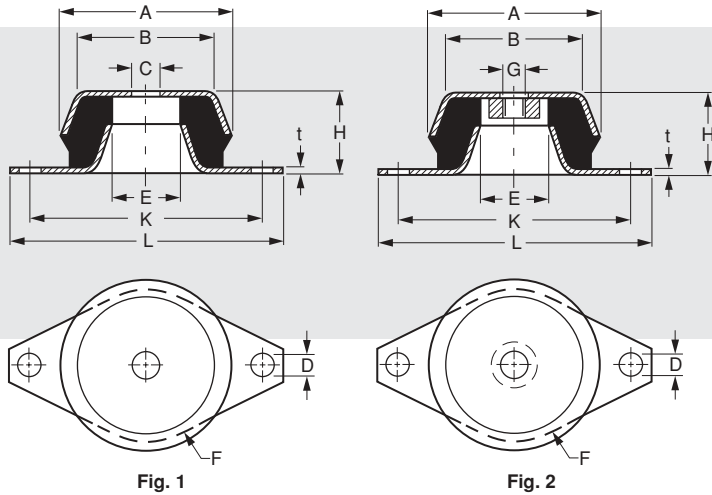
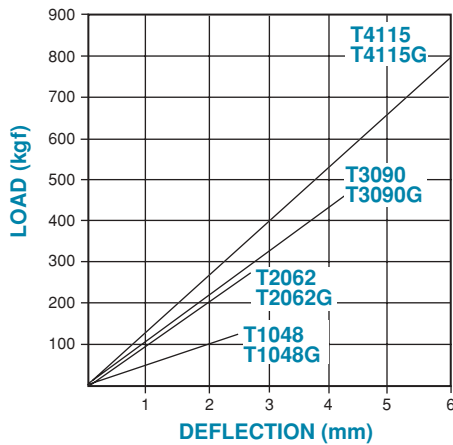


Fig. 1

Fig. 2

The projections shown are per ISO convention.



Metric

SECTION 2

Catalog Number	Fig. No.	A mm (in.)	B mm (in.)	C mm (in.)	G	D mm (in.)	E mm (in.)	F mm (in.)	L mm (in.)	K mm (in.)	H mm (in.)	t mm (in.)	Static Load kgf (lb.)	Deflection mm (in.)
V10Z55MT1048	1	48 (1.89)	38 (1.50)	8.2 (.32)	—	6.2 (.24)	20 (.79)	42 (1.65)	80 (3.15)	68 (2.68)	23 (.91)	1.5 (.06)	120 (264.6)	2.5 (.10)
V10Z55MT2062		62 (2.44)	50 (1.97)	10.2 (.40)		8.2 (.32)	25 (.98)	55 (2.17)	100 (3.94)	85 (3.35)	30 (1.18)	2 (0.08)	270 (595.2)	3.6 (.14)
V10Z55MT3090		90 (3.54)	73 (2.87)	16.2 (.64)		10.2 (.40)	44 (1.73)	82 (3.23)	130 (5.12)	110 (4.33)	45 (1.77)	3 (.12)	450 (992.1)	4.4 (.17)
V10Z55MT4115		115 (4.53)	98 (3.86)	24.2 (.95)		16.2 (.64)	60 (2.36)	105 (4.13)	190 (7.48)	160 (6.30)	50 (1.97)	4 (.16)	850 (1873.9)	6 (.24)
V10Z55MT1048G	2	48 (1.89)	38 (1.50)	—	M8	6.2 (.24)	20 (.79)	42 (1.65)	80 (3.15)	68 (2.68)	23 (.91)	1.5 (.06)	120 (264.6)	2.5 (.10)
V10Z55MT2062G		62 (2.44)	50 (1.97)	—	M10	8.2 (.32)	25 (.98)	55 (2.17)	100 (3.94)	85 (3.35)	30 (1.18)	2 (0.08)	270 (595.2)	3.6 (.14)
V10Z55MT3090G		90 (3.54)	73 (2.87)	—	M14	10.2 (.40)	44 (1.73)	82 (3.23)	130 (5.12)	110 (4.33)	45 (1.77)	3 (.12)	450 (992.1)	4.4 (.17)
V10Z55MT4115G		115 (4.53)	98 (3.86)	—	M16	16.2 (.64)	60 (2.36)	105 (4.13)	190 (7.48)	160 (6.30)	50 (1.97)	4 (.16)	850 (1873.9)	6 (.24)



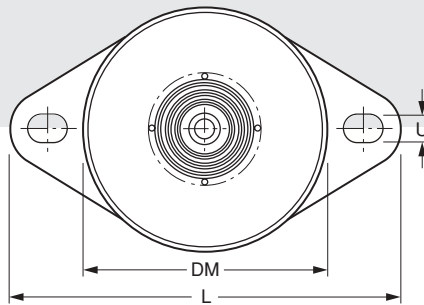
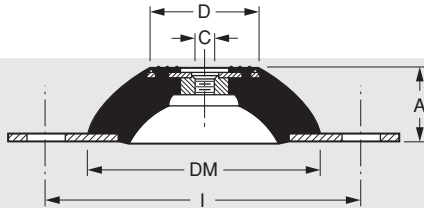
# Base Mounts – Dome Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- MATERIAL: Isolator – Natural Rubber  
Base – Carbon Steel

- CAN BE MOUNTED IN SERIES

**New**



The projections shown are per ISO convention.



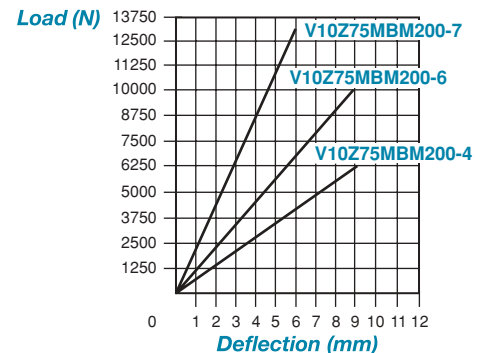
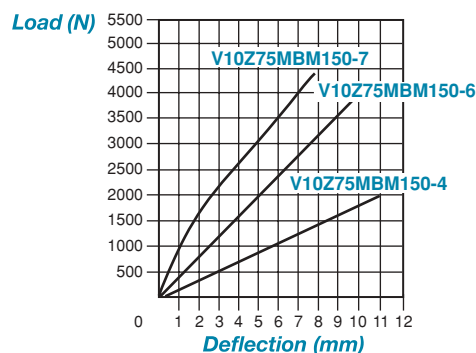
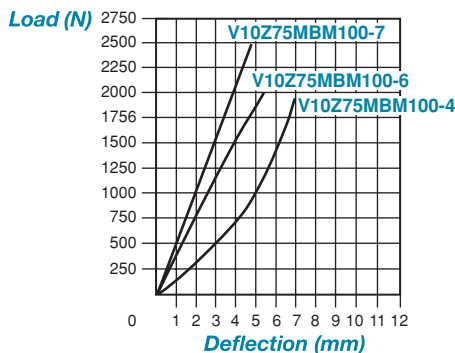
SHOWN: Catalog Number V10Z75MBM200-.. with upper metal reinforcement visible.

Metric

SECTION 2

Catalog Number	A mm (in.)	D mm (in.)	DM mm (in.)	L mm (in.)	I mm (in.)	C	U mm (in.)	Hardness Shore A	Max. Load Under Compression N (lb.)	Max. Deflection mm (in.)
V10Z75MBM100-4	32 (1.26)	45 (1.77)	96 (3.78)	160 (6.30)	128 (5.04)	M10	11 x 16 (.43 x .63)	45	900 (202.3)	4 (.158)
55								1600 (359.7)		
75								2200 (494.6)		
V10Z75MBM150-4	42 (1.65)	82 (3.23)	144 (5.67)	226 (8.90)	186 (7.32)	M14	Ø12	45	1300 (292.3)	7 (.276)
55								2500 (562.0)		
75								3500 (786.8)		
V10Z75MBM200-4	40 (1.58)	128 (5.04)	200 (7.87)	280 (1.10)	240 (9.45)	M16	Ø14.5	45	5000 (1124.0)	7 (.276)
55								8000 (1798.5)		
75								12000 (2697.7)		

## PERFORMANCE GRAPHS







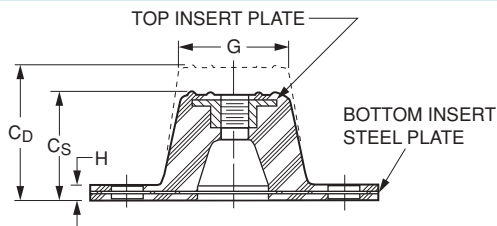
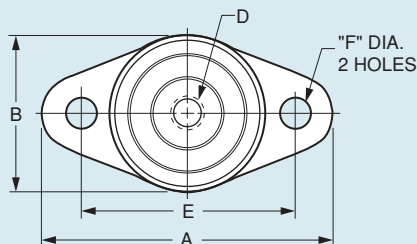
# Diamond Base Mounts – Neoprene

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: Plates – Steel

Isolator – Oil-Resistant Neoprene

• FOR LOADS OF 45 TO 1100 POUNDS (20.4 TO 499 kgf)



## APPLICATIONS

- INDUSTRIAL
- AIR CONDITIONING
- BUSINESS MACHINES

## FEATURES:

- Threaded Plate Molded into Mounting
- Nonskid Base & Top Surface
- Fastening Slots for Speedy Installation

TEMPERATURE RANGE: -10°F to +180°F (-23.3°C to +82.2°C)

Catalog Number*	Graph Ref. <sup>Δ</sup>	Rated Load lb. (kgf)	A	B	Height C		D	E	F	G	H	Max. Static Deflection		Mount Color
					Standard C <sub>s</sub>	Double C <sub>D</sub>						Standard	Double	
V10Z52-FA0045 <input type="checkbox"/>	1S 1D	45 (20.4)	3-1/8 (79.4)	1-3/4 (44.5)	1 (25.4)	1-1/4 (31.8)	5/16-18	2-3/8 (60.3)	11/32 (8.7)	1-1/4 (31.8)	3/16 (4.8)	.20 (5.08)	.40 (10.16)	BLACK
V10Z52-FA0060D	2D	60 (27.2)	3 (76.2)	1-9/16 (39.7)	—	1-1/2 (38.1)		2-1/4 (57.2)		1-1/8 (28.6)	7/32 (5.6)	—	.30 (7.62)	RED
V10Z52-FA0070 <input type="checkbox"/>	3S 3D	70 (31.8)	3-1/8 (79.4)	1-3/4 (44.5)	1 (25.4)	1-1/4 (31.8)		2-3/8 (60.3)		1-1/4 (31.8)	3/16 (4.8)	.20 (5.08)	.40 (10.16)	RED
V10Z52-FA0080D	4D	80 (36.3)	3 (76.2)	1-9/16 (39.7)	—	1-1/2 (38.1)	2-1/4 (57.2)	1-1/8 (28.6)	7/32 (5.6)	—	.30 (7.62)	GREEN		
V10Z52-FA0120 <input type="checkbox"/>	5S 5D	120 (54.4)	3-1/8 (79.4)	1-3/4 (44.5)	1 (25.4)	1-1/4 (31.8)	2-3/8 (60.3)	1-1/4 (31.8)	3/16 (4.8)	.20 (5.08)	.40 (10.16)	GREEN		
V10Z52-FB0135 <input type="checkbox"/>	6S 6D	135 (61.2)	3-7/8 (98.4)	2-3/8 (60.3)	1-1/4 (31.8)	1-3/4 (44.5)	3/8-16	3 (76.2)	11/32 (8.7)	1-3/4 (44.5)	7/32 (5.6)	.25 (6.35)	.50 (12.7)	BLUE
V10Z52-FB0240 <input type="checkbox"/>	7S 7D	240 (108.9)												RED
V10Z52-FB0260D	8D	260 (117.9)												3-3/4 (95.3)
V10Z52-FB0380 <input type="checkbox"/>	9S 9D	380 (172.4)	3-7/8 (98.4)	2-3/8 (60.3)	1-1/4 (31.8)	1-3/4 (44.5)	1/2-13	4 (101.6)	9/16 (14.3)	1-3/4 (44.5)	7/32 (5.6)	.25 (6.35)	.50 (12.7)	GREEN
V10Z52-FB0550 <input type="checkbox"/>	10S 10D	550 (249.5)	GRAY											
V10Z52-FC0525 <input type="checkbox"/>	11S 11D	525 (238.1)	5-1/2 (139.7)	3-3/8 (85.7)	1-3/4 (44.5)	2-7/8 (73)								4-1/8 (104.8)
V10Z52-FC0720D	12D	720 (326.6)	5 (127)	3-1/16 (77.8)	—	2-3/4 (69.9)	4-1/8 (104.8)	9/16 (14.3)	2-1/2 (63.5)	1/4 (6.4)	.25 (6.35)	.50 (12.7)	GREEN	
V10Z52-FC0750 <input type="checkbox"/>	13S 13D	750 (340.2)	GREEN											
V10Z52-FC1100 <input type="checkbox"/>	14S 14D	1100 (499)	5-1/2 (139.7)	3-3/8 (85.7)	1-3/4 (44.5)	2-7/8 (73)							GRAY	

\*To complete the Catalog Number, specify:

for Standard Deflection  
or  for Double Deflection

Additional load ratings available on special order.

NOTE: Dimensions in ( ) are mm.

<sup>Δ</sup>For Load Deflection Graphs see page 2-17



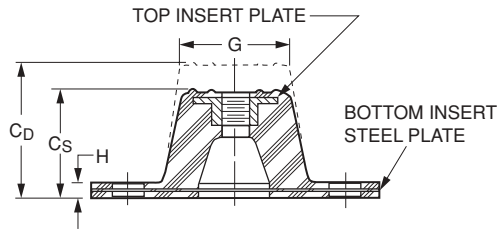
# Rectangular Base Mounts – Neoprene

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: Plates – Steel

Isolator – Oil-Resistant Neoprene

• FOR LOADS OF 110 TO 3000 POUNDS (49.9 TO 1360.8 kgf)



## APPLICATIONS

- INDUSTRIAL
- AIR CONDITIONING
- BUSINESS MACHINES

## FEATURES:

- Threaded Plate Molded into Mounting
- Nonskid Base & Top Surface
- Fastening Slots for Speedy Installation

TEMPERATURE RANGE: -10°F to +180°F (-23.3°C to +82.2°C)

Catalog Number*	Graph Ref. <sup>Δ</sup>	Rated Load lb. (kgf)	A	B	Height C		D	E	F	G	H	Max. Static Deflection		Mount Color						
					Standard Cs	Double Cd						Standard	Double							
V10Z53-FB0110 □	AS	110 (49.9)	3-3/4 (95.3)	2-1/8 (54)	1-1/8 (28.6)	1-7/8 (47.6)	3/8-16	3 (76.2)	3/8 (9.5)	1-9/16 (39.7)	1/4 (6.4)	.20 (5.08)	.40 (10.16)	BLUE						
V10Z53-FB0190D	BD	190 (86.2)			—	—						—	—	—	BLACK					
V10Z53-FB0260S	CS	260 (117.9)			1-1/8 (28.6)	—						—	—	—	—	RED				
V10Z53-FB0470 □	DS	470 (213.2)			1-7/8 (47.6)	1-7/8 (47.6)						—	—	—	—	GREEN				
V10Z53-FC0300S	ES	300 (136.1)	5 (127)	3-1/16 (77.8)	1-5/8 (41.3)	—	1/2-13	4 (101.6)	9/16 (14.3)	2-5/16 (58.7)	3/8 (9.5)	.25 (6.35)	—	BLACK						
V10Z53-FC0500S	FS	500 (226.8)												—	—	—	—	—	RED	
V10Z53-FC0720S	GS	720 (326.6)												—	—	—	—	—	—	GREEN
V10Z53-FC1120 □	HS	1120 (508)												2-3/4 (69.9)	—	—	—	—	—	GRAY
V10Z53-FD2250 □	IS	2250 (1020.6)	6-1/4 (158.8)	4-5/8 (117.5)	1-5/8 (41.3)	2-3/4 (69.9)	1/2-13	5 (127)	9/16 (14.3)	3 (76.2)	3/8 (9.5)	.25 (6.35)	.50 (12.7)	RED						
V10Z53-FD3000 □	JS	3000 (1360.8)												JD	—	—	—	—	—	GREEN

\*To complete the Catalog Number, specify:

**S** for Standard Deflection  
or **D** for Double Deflection

Additional load ratings available on special order.

NOTE: Dimensions in ( ) are mm.

ΔFor Load Deflection Graphs see page 2-17

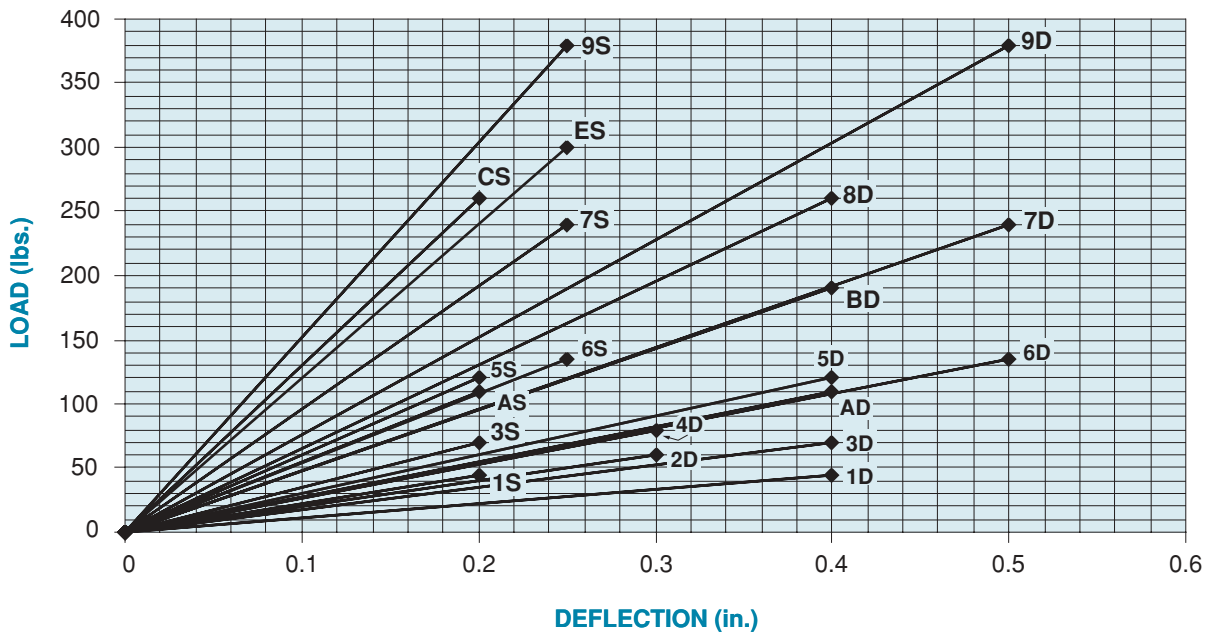


# Load Deflection for Neoprene Base Mounts

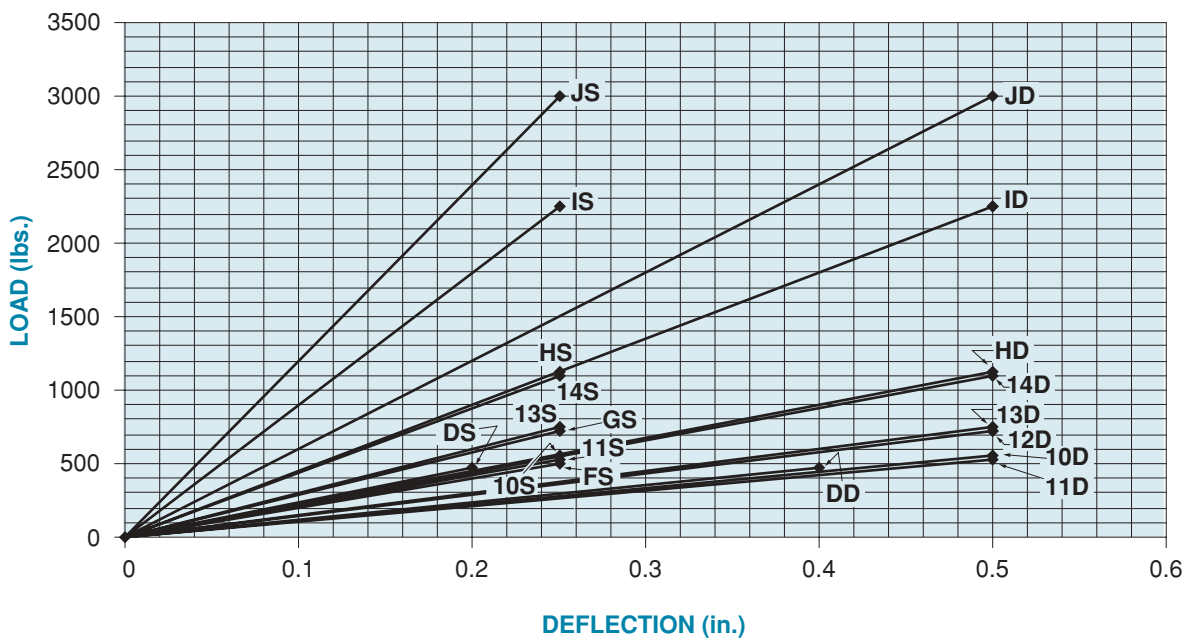
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For Catalog Numbers V10Z52-... and V10Z53-... on pages 2-15 and 2-16.

LOAD VS. DEFLECTION



LOAD VS. DEFLECTION



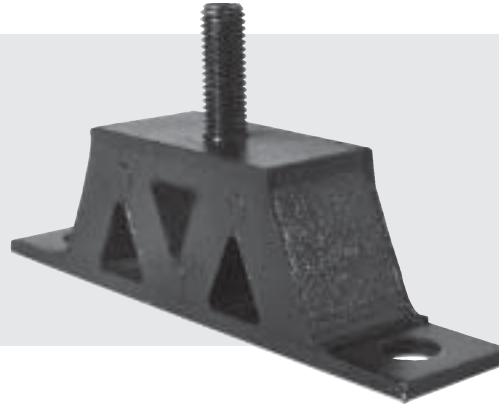
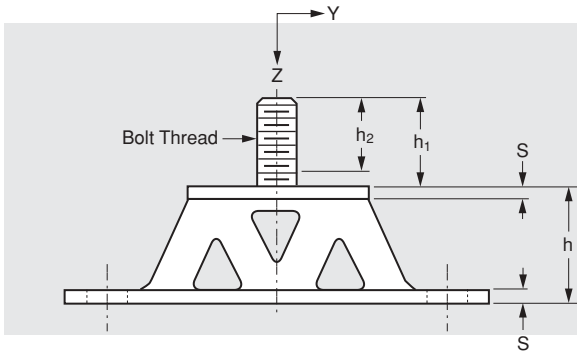


# M-Style Mounts

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

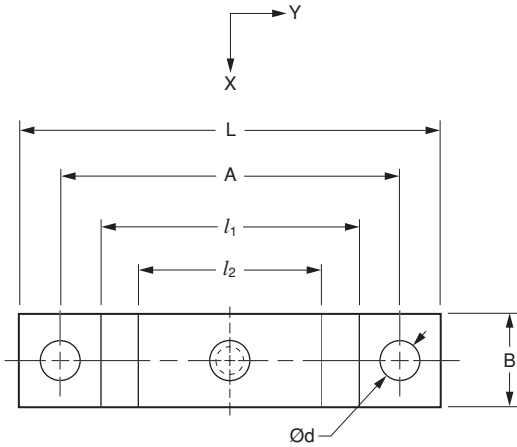
• **MATERIAL:** Mounting Plates – Mild Steel, Painted  
Isolators – Natural Rubber, 60 Durometer

• **FOR STANDARD LOADS OF 15 TO 125 kgf (33.1 TO 275.6 lb.)**



Metric

SECTION 2



### APPLICATIONS

- VIBRATION SCREEN
- VIBRATION CONVEYORS
- VIBRATION SIEVES
- INSTRUMENT PANELS
- REFRIGERATORS
- COMPRESSORS

### FEATURES:

- Compared with circular rubber mounts, they ensure lower spring rate in vertical direction and higher stability in horizontal direction. Suited for machines which generate considerable vibrations during low-speed operation.
- Excellent in controlling vibrations of 600 cpm or higher.
- Can be installed in very small areas because of its narrow width.
- Used for oscillating motions.

### DIMENSIONS

Catalog Number	L	A	B	$l_1$	$l_2$	S	h	$h_1$	$h_2$	d	Bolt Thread
V10Z46MKD040	125 (4.9)	104 (4.1)	30 (1.2)	80 (3.1)	55 (2.2)	4.5 (.18)	40 (1.6)	29 (1.14)	25 (.98)	11 (.43)	M10
V10Z46MKD045	160 (6.3)	130 (5.1)	35 (1.4)	100 (3.9)	70 (2.8)	4.5 (.18)	45 (1.8)	34 (1.34)	32 (1.26)	14 (.55)	M12
V10Z46MKD055	210 (8.3)	170 (6.7)	40 (1.6)	130 (5.1)	90 (3.5)	6 (.24)	55 (2.2)	54 (2.13)	50 (2.00)	17 (.67)	M16
V10Z46MKD065	245 (9.6)	205 (8.1)	50 (2.0)	165 (6.5)	115 (4.5)	8 (.32)	65 (2.6)	52 (2.05)	50 (2.00)	20 (.79)	M16

Provided with hex nut and lock washer.

**NOTE:** Dimensions in ( ) are inch.

### TECHNICAL DATA

Catalog Number	Standard Load in Z Direction kgf (lb.)	Allowable Load kgf (lb.)			Spring Rate in Z dir. Kz kgf/cm (lb./ft.)	Stiffness Ratio Kx/Kz	Stiffness Ratio Ky/Kz
		Z Dir.	X Dir.	Y Dir.			
V10Z46MKD040	15...35 (33.1...77.2)	70 (154.3)	12 (26.5)	14 (30.9)	200 (13.4 x 10 <sup>3</sup> )	0.17	0.2
V10Z46MKD045	30...50 (66.2...110.2)	100 (220.5)	22 (48.5)	20 (44.1)	250 (16.8 x 10 <sup>3</sup> )	0.22	0.2
V10Z46MKD055	50...90 (110.2...198.4)	175 (385.8)	45 (99.2)	35 (77.2)	290 (19.5 x 10 <sup>3</sup> )	0.25	0.2
V10Z46MKD065	80...125 (176.4...275.6)	250 (551.2)	45 (99.2)	40 (88.2)	370 (24.9 x 10 <sup>3</sup> )	0.19	0.16



# V - Style Mounts

• **MATERIAL:** Mounting Plates – Mild Steel, Painted  
Isolators – Natural Rubber

• **FOR STANDARD LOADS OF 4 TO 900 kgf ( 9 TO 1980 lb.)**

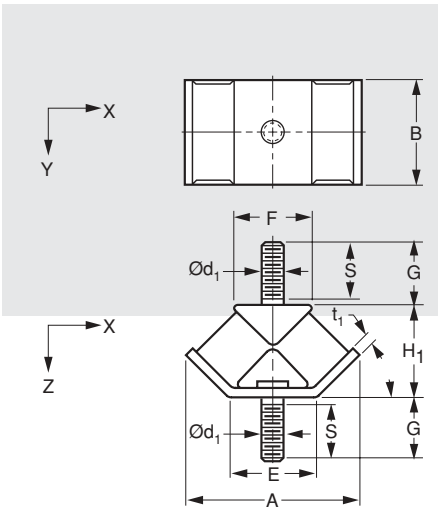


Fig. 1 Without Base Plate

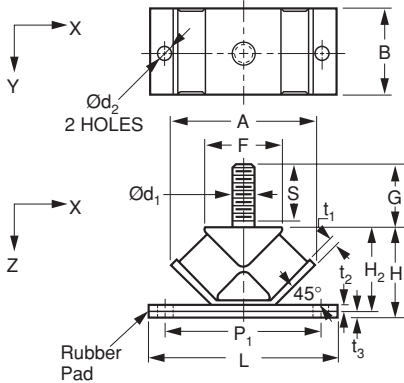


Fig. 2 With Base Plate

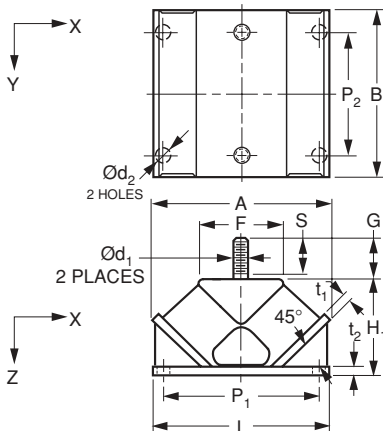


Fig. 3 With Base Plate

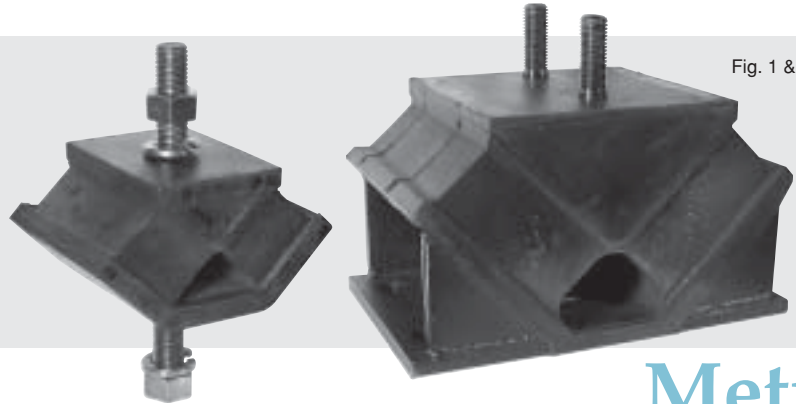


Fig. 1 & Fig. 3 Shown

Metric

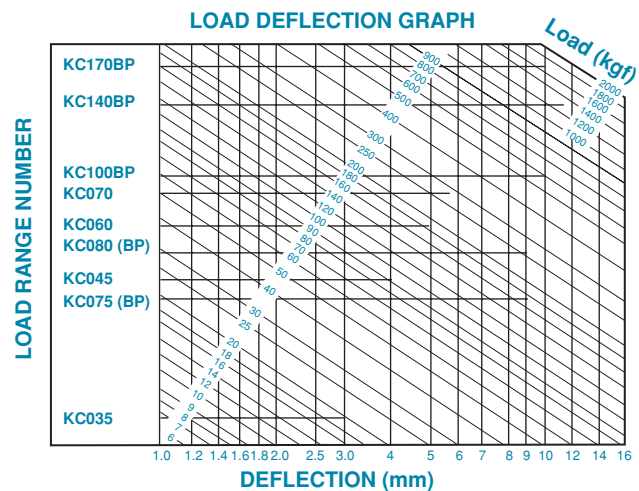
SECTION 2

## FEATURES:

- Compared with circular rubber mounts, these have higher stiffness in horizontal direction "X" and better stability. They are also well-suited for rotating machines which generate vibrating forces in the horizontal direction.
- Easy to install. The spring rate can be changed just by altering the mounting positions.
- For the base plate attached type (Fig. 2), a rubber pad is fitted to the base plate so that the machine can be placed on the floor.

## APPLICATIONS

- AIR COMPRESSORS
- VIBRATION SCREENS
- HORIZONTAL CENTRIFUGAL SEPARATORS
- MACHINE TOOLS
- VIBRATION SIEVES
- HIGH-SPEED DIESEL ENGINES





# V - Style Mounts Selection Data

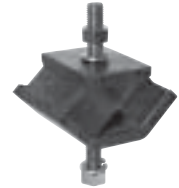
www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

## Metric

### CATALOG NUMBER DESIGNATION

V 1 0 Z 4 5 M

Load Range Number Base Plate - BP  
 Use information in both tables below to determine appropriate Load Range Number (where applicable)



### DIMENSIONS measured in mm and (inches)

Load Range Number	Fig. No.	A	B	E	F	d <sub>1</sub> Thread	G	S	t <sub>1</sub>	L	P <sub>1</sub>	P <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>	d <sub>2</sub>	t <sub>2</sub>	t <sub>3</sub>	
KC035	1	60 (2.4)	30 (1.2)	30 (1.2)	26 (1.0)	M10	29 (1.1)	25 (1.0)	4.5 (.18)				35 (1.4)					
KC045		82 (3.2)	50 (2.0)	40 (1.6)	40 (1.6)	M12	34 (1.3)	32 (1.3)	4.5 (.18)				45 (1.8)					
KC060		108 (4.3)	70 (2.8)	45 (1.8)	56 (2.2)	M12	44 (1.7)	40 (1.6)	6 (.24)				60 (2.4)					
KC070		124 (4.9)	90 (3.5)	55 (2.2)	65 (2.6)	M16	52 (2.0)	50 (2.0)	8 (.32)				70 (2.8)					
KC075		135 (5.3)	70 (2.8)	76 (3.0)	56 (2.2)	M12	44 (1.7)	40 (1.6)	6 (.24)				73 (2.9)					
KC080		148 (5.8)	90 (3.5)	76 (3.0)	65 (2.6)	M16	52 (2.0)	50 (2.0)	8 (.32)				80 (3.1)					
KC075BP		2	135 (5.3)	70 (2.8)		56 (2.2)	M12	44 (1.7)	40 (1.6)	6 (.24)	170 (6.7)	140 (5.5)		85 (3.3)	79 (3.1)	14 (.55)	6 (.24)	
KC080BP			148 (5.8)	90 (3.5)		65 (2.6)	M16	52 (2.0)	50 (2.0)	8 (.32)	180 (7.1)	150 (5.9)		94 (3.7)	88 (3.5)	14 (.55)	8 (.32)	6 (.24)
KC100BP	180 (7.1)		110 (4.3)		100 (3.9)	M20	57 (2.2)	46 (1.8)	8 (.32)	240 (9.5)	200 (7.9)		114 (4.5)	108 (4.3)	18 (.71)	8 (.32)		
KC140BP	3	250 (9.8)	240 (9.5)		127 (5.0)	M20x2	56 (2.2)	46 (1.8)	12 (.47)	250 (9.8)	220 (8.7)	175 (6.9)	140 (5.5)		18x2 (.71x.08)	12 (.47)		
KC170BP		288 (11.3)	180 (7.1)		184 (7.2)					300 (11.8)	252 (9.9)	100 (3.9)	170 (6.7)		22x2 (.87x.08)	12 (.47)		

NOTES: "BP" at the end of the Catalog Number stands for base plate attached type.  
 All units are provided with hex nuts and spring washers.

### TECHNICAL DATA measured in kgf and (lb.)

Load Range Number	Standard Load in Z Direction	ALLOWABLE LOAD			Spring Rate Z Direction kgf/cm	Stiffness Ratio Kx/Kz	Stiffness Ratio Ky/Kz
		Z Direction	X Direction	Y Direction			
KC035	4...10 (9...22)	20 (44)	13 (28)	5 (11)	65	0.75	0.34
KC045	25...45 (55...99)	90 (196)	55 (121)	25 (55)	235	0.61	0.27
KC060	30...95 (66...209)	185 (407)	65 (143)	30 (66)	380	0.58	0.26
KC070	50...150 (110...330)	290 (638)	110 (242)	55 (121)	520	0.54	0.27
KC075	30...90 (66...198)	170 (374)	105 (231)	40 (88)	190	0.81	0.3
KC080	35...135 (77...297)	260 (572)	155 (341)	60 (132)	300	0.78	0.28
KC075BP	30...90 (66...198)	170 (374)	105 (231)	40 (88)	190	0.81	0.3
KC080BP	35...135 (77...297)	260 (572)	155 (341)	60 (132)	300	0.78	0.28
KC100BP	100...300 (220...660)	600 (1320)	260 (572)	120 (264)	600	0.54	0.26
KC140BP	300...650 (660...1430)	1300 (2860)	550 (1210)	250 (550)	1200	0.56	0.27
KC170BP	500...900 (1100...1980)	1750 (3850)	650 (1430)	280 (616)	1700	0.33	0.23

NOTE: Rubber material is natural rubber of hardness 45 durometer.

SECTION 2





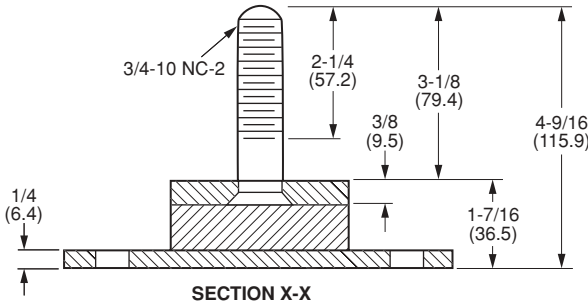
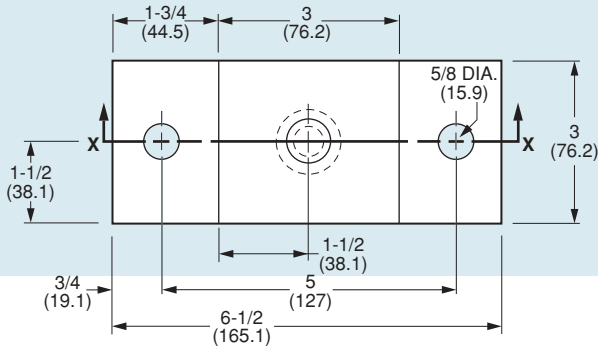
# Rectangular Mounts – To 900 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Isolator – Natural Rubber  
Base – Steel

- **FOR COMPRESSION LOADS TO 900 POUNDS (408 kgf)**  
• **FOR SHEAR LOADS TO 360 POUNDS (163.3 kgf)**

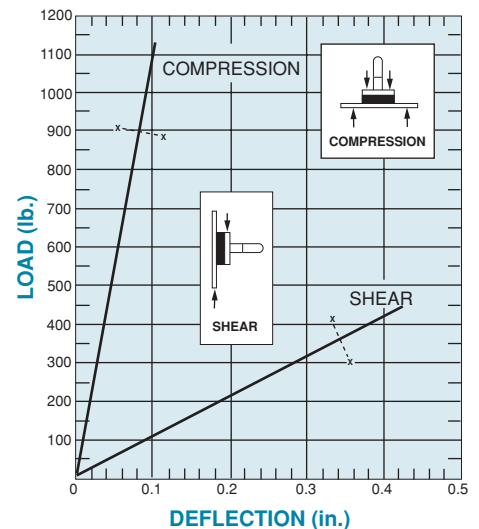
SECTION 2



NOTE: Dimensions in ( ) are mm.

### LOAD DEFLECTION GRAPH

Deflection below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



Compression	Catalog Number <sup>Δ</sup>	Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute									
			750	850	950	1100	1250	1500	1750	2000	2500	3000
V10Z 6-530C	900 (408)	—	—	—	—	—	—	—	800 (362.9)	590 (267.6)	390 (177)	270 (122.5)
Minimum Load for 81% Isolation lb. (kgf)												
Shear	Catalog Number <sup>Δ</sup>	Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute									
			750	850	950	1100	1250	1500	1750	2000	2500	3000
V10Z 6-530C	360 (163.3)	360 (163.3)	335 (152)	260 (118)	195 (88.5)	155 (70.3)	102 (46.3)	75 (34)	55 (25)	*	*	
Minimum Load for 81% Isolation lb. (kgf)												

NOTE: 81% vibration absorption (usually satisfactory) will be obtained when the mounting indicated is operating at the minimum load shown for each forced frequency. Better than 81% absorption will be obtained either with a greater load (within the limits shown) for a given forced frequency, or with a higher forced frequency for a given load.

\*At these forcing frequencies, lesser loads will yield 81% isolation.

<sup>Δ</sup>To be discontinued when present stock is depleted.

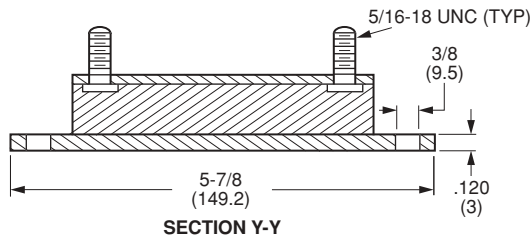
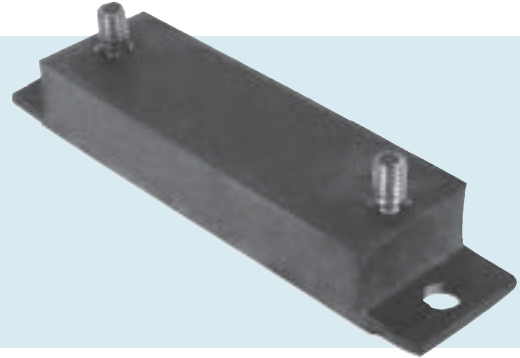
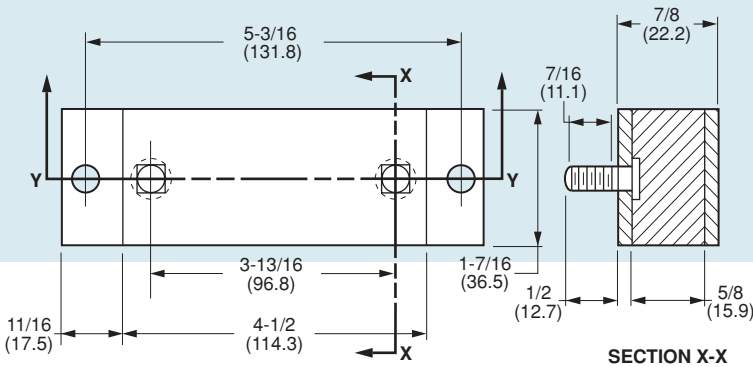


# Rectangular Mounts – To 775 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Isolator – Natural Rubber  
Base – Steel

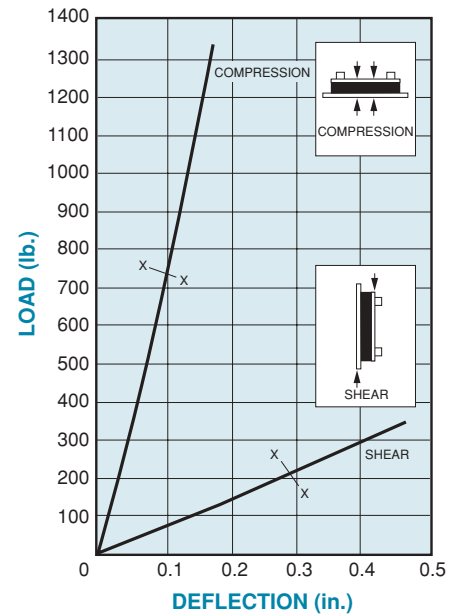
• **FOR COMPRESSION LOADS TO 775 POUNDS (351.5 kgf)**  
• **FOR SHEAR LOADS TO 315 POUNDS (142.9 kgf)**



NOTE: Dimensions in ( ) are mm.

### LOAD DEFLECTION GRAPH

Deflections below the line x-x are considered safe practice for static loads; data above that line is useful for calculating deflections under dynamic loads



Compression		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	750	850	950	1100	1250	1500	1750	2000	2500	3000
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 6-500B	775 (351.5)	—	—	—	—	—	—	585 (265.4)	440 (200)	270 (122.5)	175 (79.4)
Shear		Forcing Frequency in Cycles per Minute									
Catalog Number	Maximum Load lb. (kgf)	750	850	950	1100	1250	1500	1750	2000	2500	3000
		Minimum Load for 81% Isolation lb. (kgf)									
V10Z 6-500B	315 (142.9)	315 (142.9)	260 (117.9)	200 (90.7)	165 (74.8)	125 (56.7)	125 (56.7)	585 (29.5)	440 (24.9)	*	*

\*At these forcing frequencies, lesser loads will yield 81% isolation.

NOTE: 81% vibration absorption (usually satisfactory) will be obtained when the mounting indicated is operating at the minimum load shown for each forced frequency. Better than 81% absorption will be obtained either with a greater load (within the limits shown) for a given forced frequency, or with a higher forced frequency for a given load.

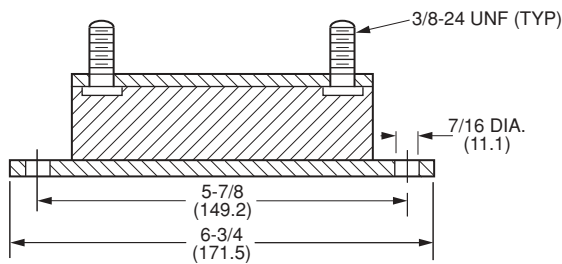
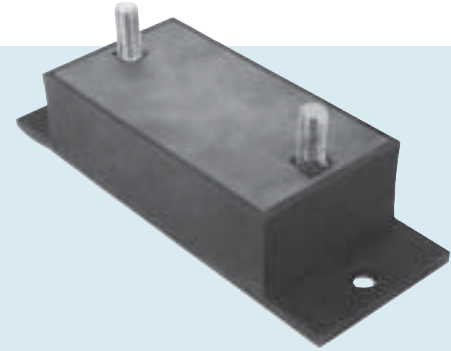
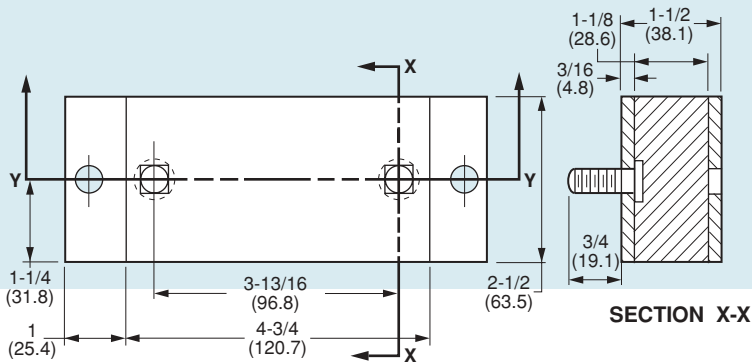


# Rectangular Mounts – To 1475 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- MATERIAL: Isolator – Natural Rubber  
Base – Steel

- FOR COMPRESSION LOADS TO 1475 POUNDS (669 kgf)
- FOR SHEAR LOADS TO 440 POUNDS (200 kgf)

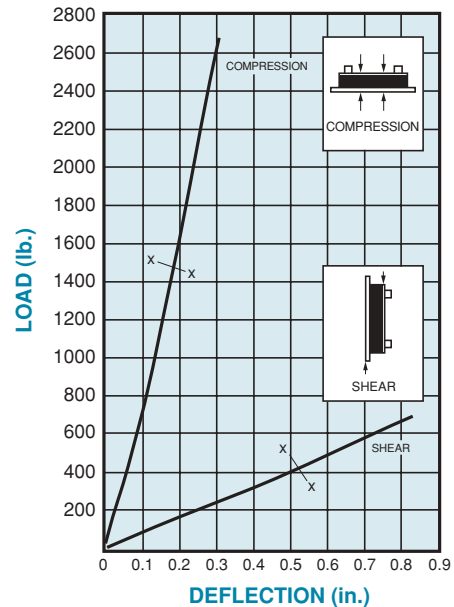


SECTION Y-Y

NOTE: Dimensions in ( ) are mm.

### LOAD DEFLECTION GRAPH

Deflections below the line x-x are considered safe practice for static loads; data above that line is useful for calculating deflections under dynamic loads



Compression		Forcing Frequency in Cycles per Minute								
Catalog Number	Maximum Load lb. (kgf)	675	850	950	1100	1250	1500	1750	2000	2500
		Minimum Load for 81% Isolation (lb.)								
V10Z 6-520B	1475 (669)	—	—	—	1200 (544.3)	1040 (471.7)	650 (294.8)	470 (213.2)	320 (145.1)	170 (77.1)

Shear		Forcing Frequency in Cycles per Minute								
Catalog Number	Maximum Load lb (kgf)	675	850	950	1100	1250	1500	1750	2000	2500
		Minimum Load for 81% Isolation (kgf)								
V10Z 6-520B	440 (200)	440 (200)	250 (113.4)	190 (86.2)	135 (61.2)	110 (49.9)	70 (31.8)	60 (27.2)	50 (22.7)	*

\*At this forcing frequency, lesser loads will yield 81% isolation.

NOTE: 81% vibration absorption (usually satisfactory) will be obtained when the mounting indicated is operating at the minimum load shown for each forced frequency. Better than 81% absorption will be obtained either with a greater load (within the limits shown) for a given forced frequency, or with a higher forced frequency for a given load.

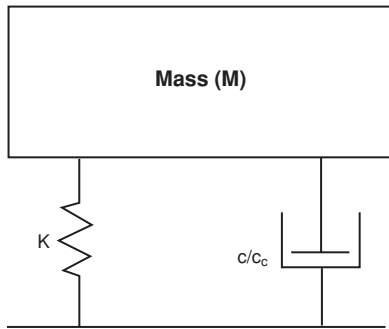


# Vibration Transmissibility Charts

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

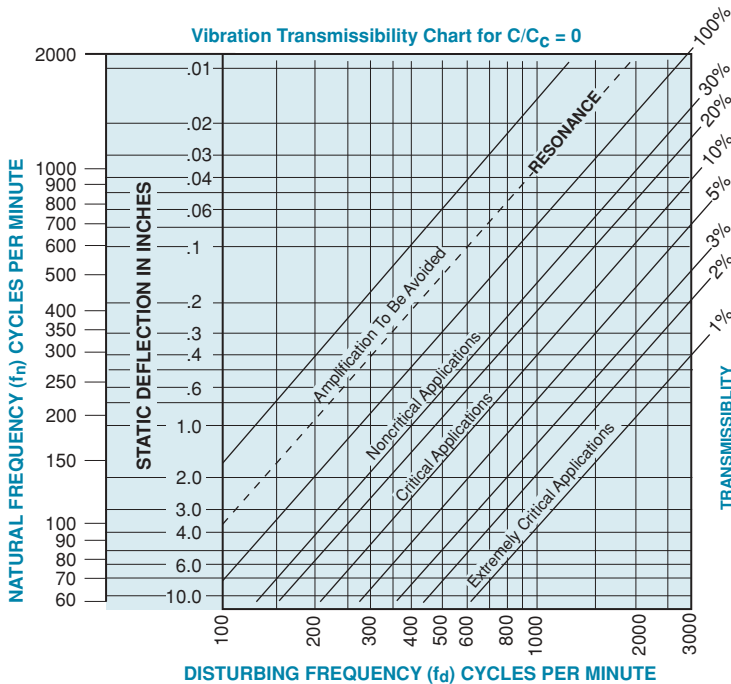
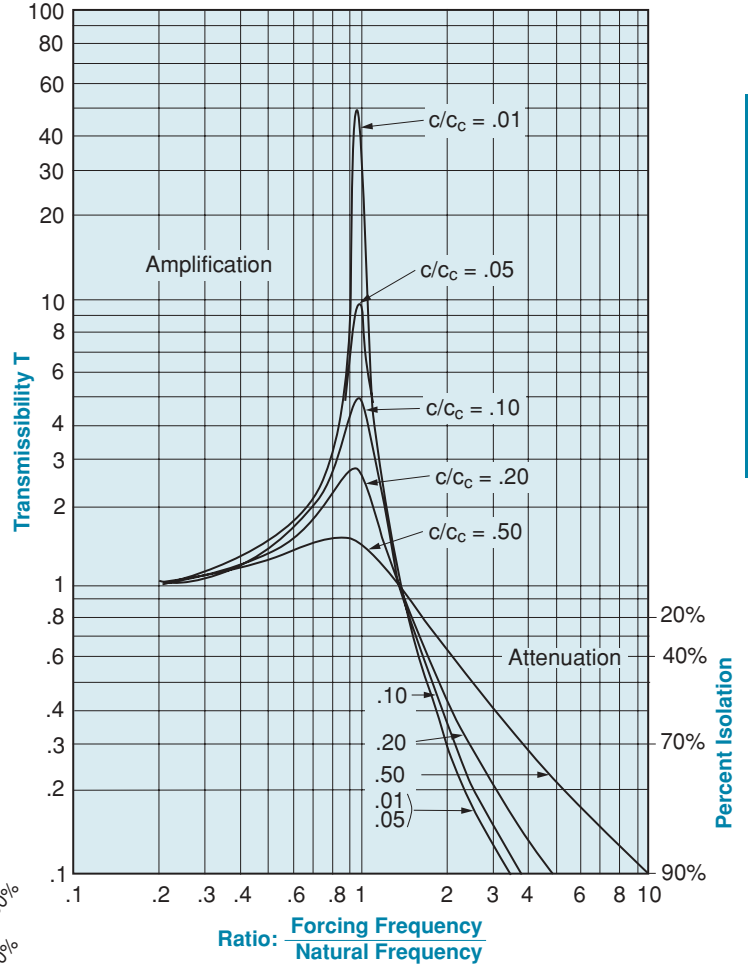
For more extensive discussion of vibration analysis and isolation, see the technical section starting on page T1-0.

Schematic of simple mounting system



- K = Stiffness of spring (mount)
- $c/c_c$  = Critical damping ratio
- c = System damping coefficient
- $c_c$  = Critical damping coefficient
- $f_d$  = Disturbing frequency
- $f_n$  = Natural frequency

Transmissibility vs. Frequency Ratio and  $c/c_c$



$$\% \text{ TRANSMISSIBILITY} = T = 100 \left[ \frac{1}{\left( \frac{f_d}{f_n} \right)^2 - 1} \right]$$

TO DETERMINE THE EFFICIENCY OF ISOLATION, SUBTRACT THE % TRANSMISSIBILITY FROM 100%

# Wheels, Leveling & Foot Mounts



## SECTION 3



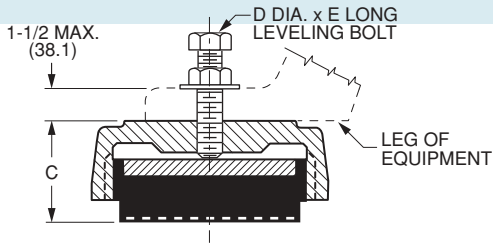
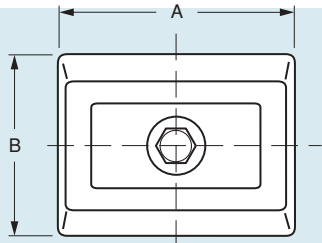


# Level Mounts – To 2500 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Housing – Cast Iron  
Isolator – Oil-Resistant Neoprene

- **FOR LOADS OF 120 TO 2500 POUNDS (54.4 TO 1134 kgf)**



## CHARACTERISTICS

The mounts consist of a high-quality, nonskid, neoprene isolation element yielding 1/8 in. (3.2 mm) deflection at rated load, rugged load-bearing top casting and hardware necessary for leveling and fastening equipment to mount. Up to 5/8 in. (15.9 mm) leveling capability eliminates shimming. Bolting equipment to floor is not required.

## INSTALLATION

Raise the machine with conventional lifting devices, place the mounts beneath the machine feet and attach the leveling bolts to the mounts. Lower the machine and ensure that the total weight is carried by all of the mounts. Level to a desired height by gradual and sequential adjustment of the leveling bolts. Tighten the locknuts.

Catalog Number	Steady Load lb. (kgf)	Max. Impact lb. (kgf)	Dimensions					Maximum Height Adjustment
			A	B	C	D	E	
V10Z12-MA00120	120 (54.4)	90 (40.8)	2-7/8 (73)	2-3/8 (60.3)	1-7/8 (47.6)	5/16 (7.9)	2-3/4 (69.9)	1/2 (12.7)
V10Z12-MA00200	200 (90.7)	150 (68)						
V10Z12-MB00450	450 (204.1)	337 (152.9)	4-15/16 (125.4)	3-7/8 (98.4)	1-3/4 (44.5)	1/2 (12.7)	3 (76.2)	1/2 (12.7)
V10Z12-MB01600	1600 (725.7)	1200 (544)						
V10Z12-MC02500	2500 (1134)	1875 (850.5)	7-1/2 (190.5)	5-7/8 (149.2)	2-5/16 (58.7)	3/4 (19.1)	3-1/2 (88.9)	1/2 (12.7)

NOTE: Dimensions in ( ) are mm.

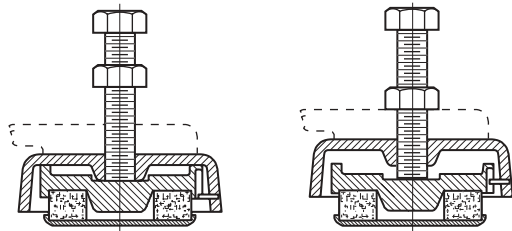
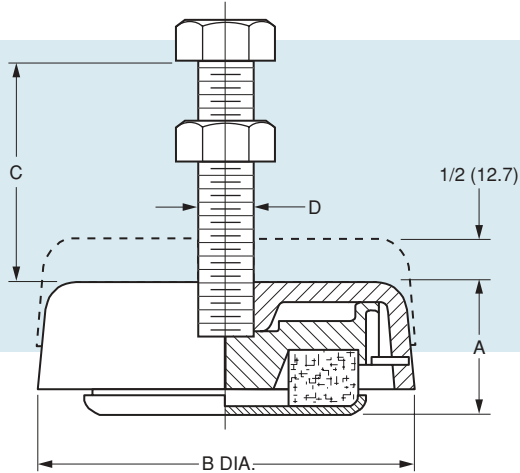




# Leveling Mounts – To 10000 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- FOR COMPRESSION LOADS ONLY • STAINLESS STEEL MESH
- CORROSIVE ENVIRONMENT • FOR LOADS OF 100 TO 10000 POUNDS



BEFORE LEVELING

AFTER LEVELING

## CHARACTERISTICS

The mounts consist of two rugged meehanite castings, a resilient pad of knitted stainless steel mesh and pressed steel baseplate. The leveling screw seats into the bottom casting thus providing a built-in leveling device. The excellent damping characteristics of this mount are unaffected by contaminants such as oil, grease or caustics.

## INSTALLATION

Raise the machine with conventional lifting devices; place the mounts beneath the machine feet and attach the leveling screws to the mount. Lower the machine and ensure that the total weight is carried by all of the mounts. Level to a desired height by gradual and sequential adjustment of the leveling screws. Tighten the locknut.

Catalog Number	Load Range		A	B	C	D
	lb.	kgf				
V10Z25-0139-1	100-250	45-113	2 (50.8)	4-1/4 (108)	3-1/2 (89)	5/8-11 UNC
V10Z25-0139-2	250-500	113-227				
V10Z25-0139-3	500-1000	227-454				
V10Z25-0139-4	1000-2000	454-907				
V10Z25-0139-5	2000-4000	907-1814				
*V10Z25-0339	1000-10000	454-4536	2-1/8 (54)	7-45/64 (196)	4-9/32 (109)	1-8 UNC
V10Z25-0339-1	1000-4000	454-1814				
V10Z25-0339-3	4000-7000	1814-3175				
V10Z25-0339-5	7000-10000	3175-4536				

NOTE: Dimensions in ( ) are mm.

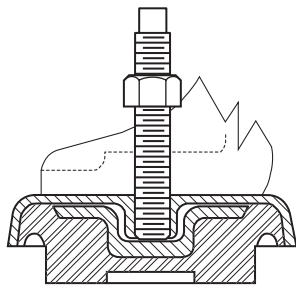
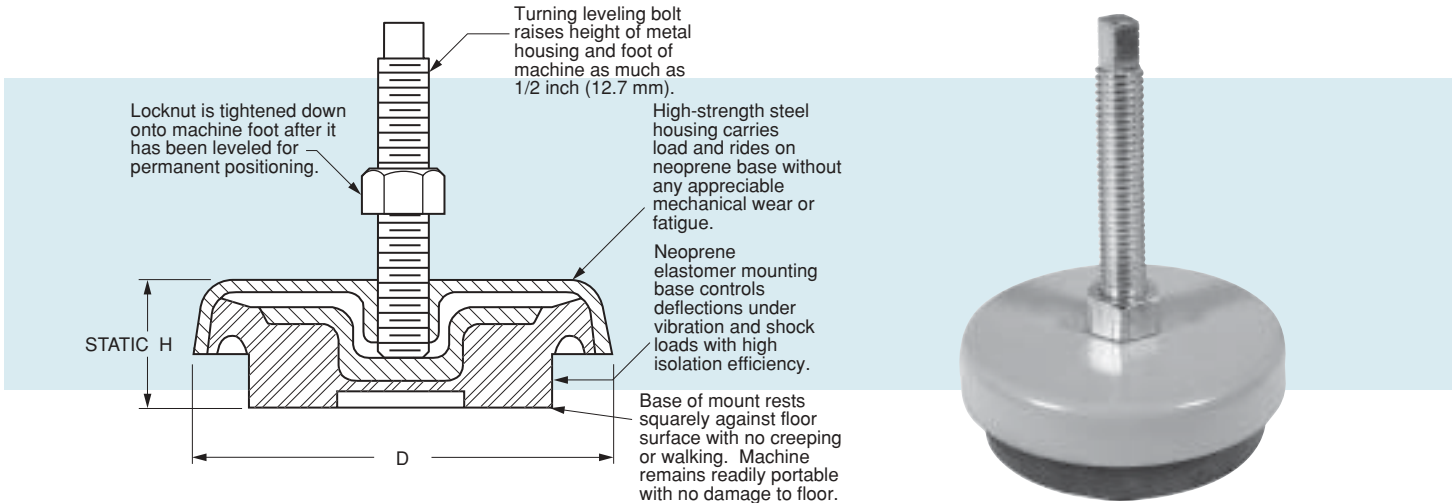
\*To be discontinued when present stock is depleted.



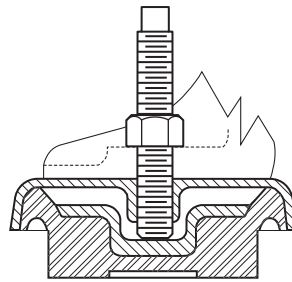
# Leveling Mounts – To 12000 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• FOR LOADS OF 100 TO 12000 POUNDS (45.4 TO 5443.1 kgf)



BEFORE LEVELING



AFTER LEVELING

## INSTALLATION

Raise the machine with conventional lifting devices; place the mounts beneath the machine feet and attach the leveling bolts to the mounting. Lower the machine and ensure that the total weight is carried by all of the mounts. Level to a desired height by gradual and sequential adjustment of the leveling bolts. Tighten the locknut.

NOTE: Dimensions in ( ) are mm.

Catalog Number	Load lb. (kgf)		D Dia.	H Static Height	Bolt Size & Length	Natural Frequency at Maximum Load Hz
	Min.	Max.				
V10Z25-LM3	100 (45.4)	500 (226.8)	3-1/2 (89)	1-1/8 (28.6)	1/2-13 x 3-1/2	8-12 Approximately
V10Z25-LM5	500 (226.8)	1000 (453.6)	5 (127)	1-3/4 (44.5)	1/2-13 x 5	
V10Z25-LM6	1000 (453.6)	4000 (1814.4)	6-1/4 (159)	1-3/4 (44.5)	3/4-10 x 5	
V10Z25-LM8	4000 (1814.4)	12000 (5443.1)	8 (203)	2 (50.8)	1-14 x 8	



# Leveling Mounts— Iso-Pad Type – To 4000 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Isolator – Iso-Pad (Standard Load)

Refer to characteristics shown on page 8-2

**Base** – Casting 30000 psi (2109 kgf/cm<sup>2</sup>) Tensile Strength

**Bolt** – SAE Grade No. 5 Heat-Treated

• **FOR LOADS OF 200 TO 4000 POUNDS**  
(90.7 TO 1814.4 kgf)

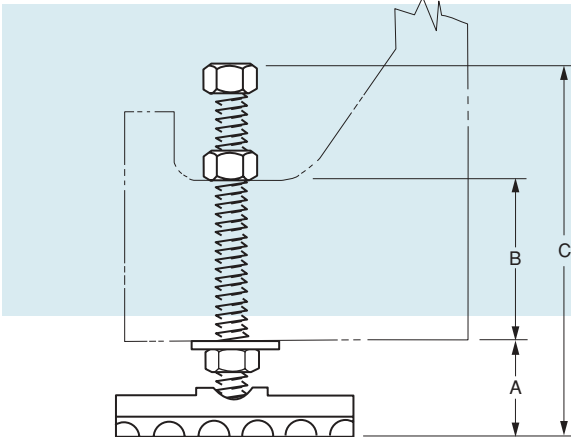
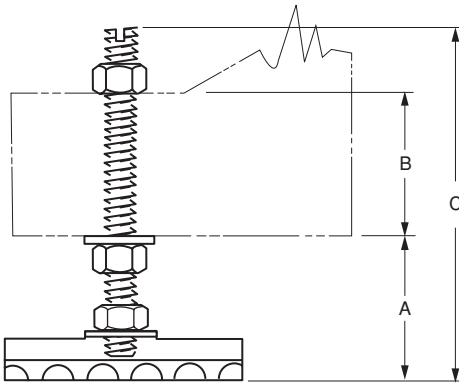


Fig. 1 (REGULAR MOUNT)



\*Fig. 2 (FIXED MOUNT)



Fig. 1



Fig. 2

SECTION 3

Catalog Number	Fig.	Pad Dimensions in. (mm)	Pad Area sq. in.	Pad Area sq. cm	Load per Mount lb. (kgf)	Bolt Dimensions	Dimensions		
							A Minimum Height	B Maximum Adjustment	C Overall Height
V10R12-R22	1	2 x 2 x 5/8 (50.8 x 50.8 x 15.9)	4	25.8	200 – 500 (90.7 – 226.8)	1/2-20 x 4	1-1/2 (38.1)	2-3/4 (69.9)	5-1/4 (133.3)
V10R12-R33		3 x 3 x 5/8 (76.2 x 76.2 x 15.9)	9	58.1	500 – 1200 (226.8 – 544.3)				
V10R12-R44		4 x 4 x 5/8 (101.6 x 101.6 x 15.9)	16	103.2	1200 – 2400 (544.3 – 1088.6)	3/4-16 x 6	1-3/4 (44.5)	4-3/4 (120.7)	7-1/2 (190.5)
V10R12-R66		5-1/2 x 5-1/2 x 5/8 (139.7 x 139.7 x 15.9)	30-1/4	195.2	2400 – 4000 (1088.6 – 1814.4)				
V10R12-F22	2	2 x 2 x 5/8 (50.8 x 50.8 x 15.9)	4	25.8	200 – 500 (90.7 – 226.8)	1/2-20 x 4	1-7/8 (47.6)	2-9/16 (65.1)	4-3/4 (120.7)
V10R12-F33		3 x 3 x 5/8 (76.2 x 76.2 x 15.9)	9	58.1	500 – 1200 (226.8 – 544.3)				
V10R12-F44		4 x 4 x 5/8 (101.6 x 101.6 x 15.9)	16	103.2	1200 – 2400 (544.3 – 1088.6)	3/4-16 x 6	2-7/16 (61.9)	3-13/16 (96.8)	6-9/16 (166.7)
V10R12-F66		5-1/2 x 5-1/2 x 5/8 (139.7 x 139.7 x 15.9)	30-1/4	195.2	2400 – 4000 (1088.6 – 1814.4)				

\* Recommended for use under impact machinery.  
Additional bolt and mount sizes available on request.



# Leveling Mounts – Conical Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Bolt – DIN 976  
Nuts – DIN 934 Washer – DIN 9021  
Isolator – Natural Rubber (Ozone-Resistant)

- ISOLATES IMPACTS & STRUCTURAL NOISE
- PREVENTS MACHINE PIVOTING

**New**



**Metric**

With Threaded Leveling Bolt

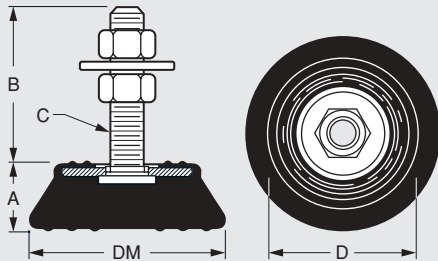


FIG. 1

With Removable Leveling Bolt

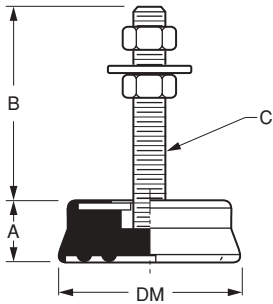
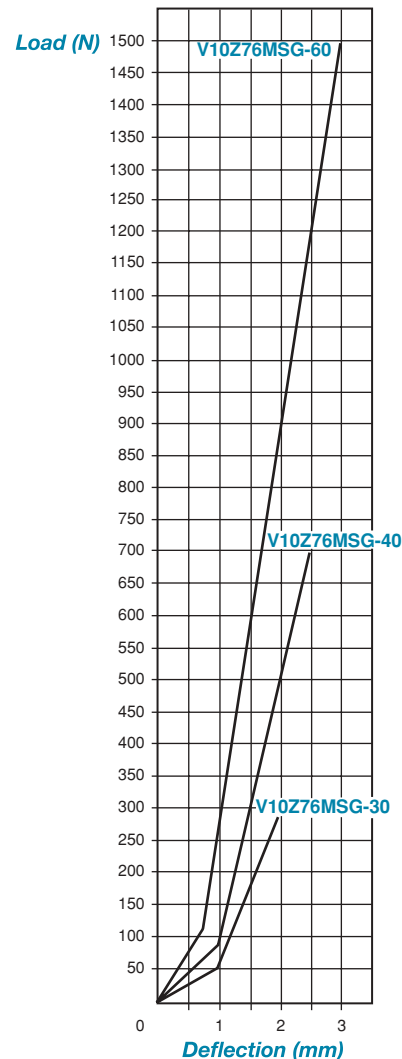


FIG. 2

PERFORMANCE GRAPH



Catalog Number	Fig. No.	A mm (in.)	B mm (in.)	D mm (in.)	DM mm (in.)	C
V10Z76MSG-30	1	12 (.472)	18 (.709)	30 (1.181)	40 (1.575)	M8/M10
V10Z76MSG-40		17 (.669)	45 (1.772)	38 (1.496)	50 (1.979)	M8
V10Z76MSG-60	2	20 (.787)	80 (3.150)	52 (2.047)	58 (2.284)	M10

Catalog Number	Maximum		Minimum		Admissible Temporary Overload %
	Load N (lb.)	Deflection mm (in.)	Load N (lb.)	Deflection mm (in.)	
V10Z76MSG-30	250 (56)	2 (.079)	50 (11)	1 (.039)	100
V10Z76MSG-40	450 (101)	2.5 (.089)	80 (18)		
V10Z76MSG-60	1500 (337)	3 (.118)	250 (56)	1 (.039)	50

SECTION 3

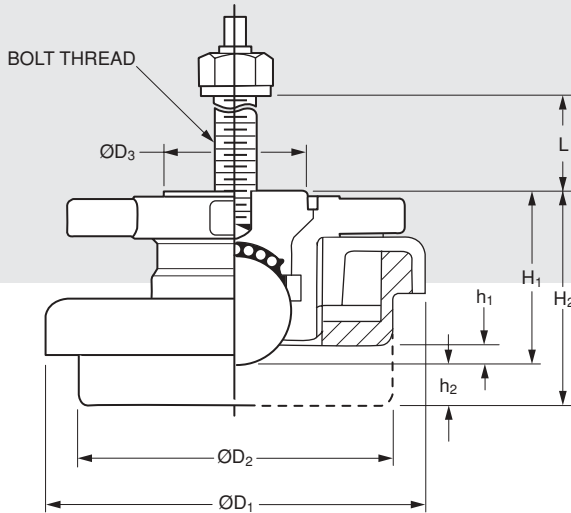


# Leveling Carry Mounts

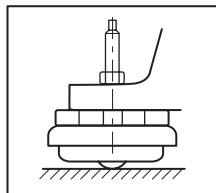
www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Handle – Steel, Painted  
Bolt – Steel, Zinc Plated  
Housing – Iron, Galvanized  
Ball – Steel  
Isolator – Oil-Resistant Rubber

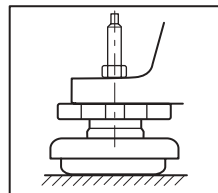
- **BALL TYPE**  
• **FOR LOADS OF 200 TO 600 kgf (441 TO 1323 lb.)**



## Metric



MOUNT IN ROLLING POSITION



MACHINE LEVELED RUBBER PAD EXTENDED

### INSTALLATION

Place the CARRY MOUNT under the bolt hole of the machine. Insert the bolt into the screw hole of the CARRY MOUNT and screw it in until the bolt stops.

Turn the spoked wheel clockwise to lift the rubber mount. The steel ball then allows free movement.

Turn the spoked wheel counterclockwise to lift the steel ball. The rubber mount now supports the machine in place.

### DESCRIPTION

CARRY MOUNT is a moveable mount in which the rubber mount is incorporated with a rotating ball. They allow movement of machines and give excellent vibration-free installations.

### FEATURES:

- Compact Design
- Excellent Stability
- Easy Movement & Setting
- Lightweight
- Low Price

### APPLICATIONS

- SHOP MACHINES
- OFFICE EQUIPMENT
- MEDICAL INSTRUMENTS

Catalog Number	Working Load Max. kgf (lb.)	H <sub>1</sub>	H <sub>2</sub>	D <sub>1</sub> ±2 (±.08)	D <sub>2</sub>	D <sub>3</sub>	L	h <sub>1</sub>	h <sub>2</sub>	Bolt Thread
V10Z44MCM200	200 (441)	58 (2.3)	70 (2.76)	100 (3.9)	80 (3.1)	44 (1.7)	67 (2.63)	7.5 (.3)	12 (.47)	M12
V10Z44MCM600	600 (1323)	65 (2.6)	79 (3.11)	140 (5.5)	120 (4.7)	54 (2.1)	72 (2.83)		14 (.55)	M16

NOTE: Dimensions in ( ) are inch.

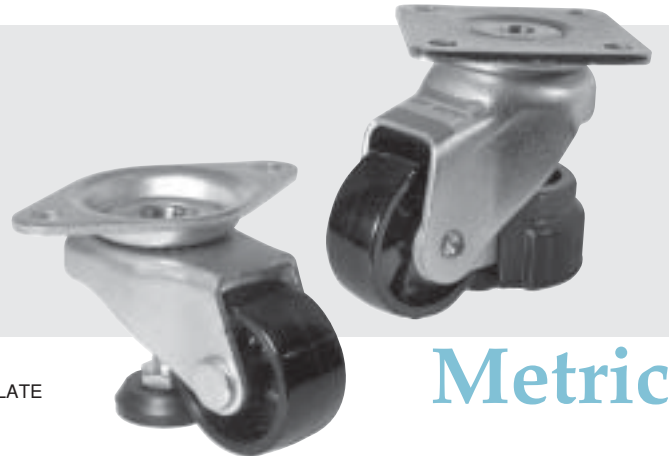
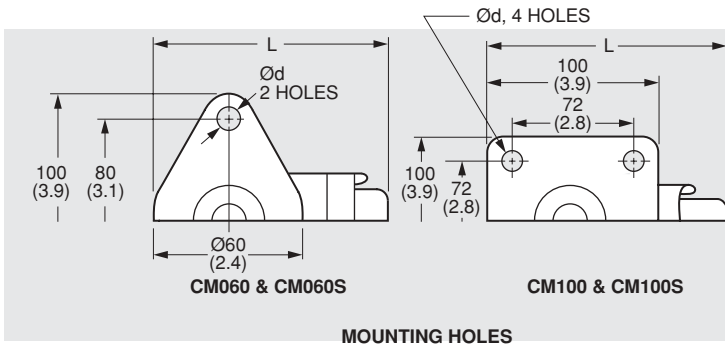


# Leveling Carry Mounts

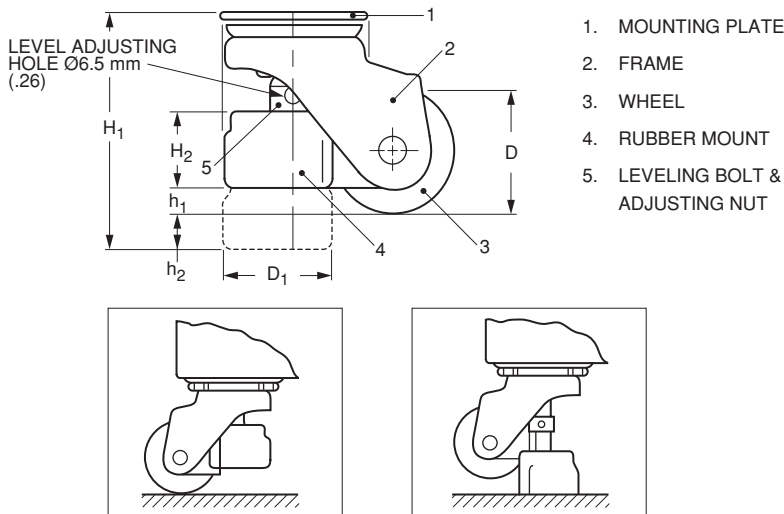
www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Frame & Bolt – Steel, Galvanized  
Wheel – Nylon  
Isolator – Oil-Resistant Rubber

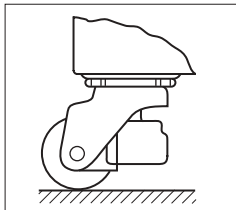
- **CASTER TYPE**  
• **FOR LOADS OF 60 TO 100 kgf (132 TO 220 lb.)**



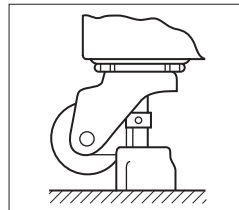
## Metric



1. MOUNTING PLATE
2. FRAME
3. WHEEL
4. RUBBER MOUNT
5. LEVELING BOLT & ADJUSTING NUT



**CASTER IN ROLLING POSITION**



**MACHINE LEVELED RUBBER MOUNT EXTENDED**

### FEATURES:

- Compact Design
- Excellent Stability
- Easy Movement & Setting
- Lightweight
- Low Price

### APPLICATIONS

- SHOP MACHINES
- OFFICE EQUIPMENT
- MEDICAL INSTRUMENTS

### DESCRIPTION

CARRY MOUNT is a moveable mount in which the rubber mount is incorporated into a caster. They allow movement of machines and give excellent vibration-free installations.

### INSTALLATION

Raise machine and attach casters with suitable bolts. Insert screwdriver or 1/4 diameter rod into level adjusting hole and turn it to the left (clockwise) to lift the rubber mount. Machine can now be easily moved. Once relocated, level adjusting hole is rotated counterclockwise to lift the wheel. The machine is then positioned in place.

Catalog Number	Working Load Max. kgf (lb.)	H <sub>1</sub>	H <sub>2</sub>	D	D <sub>1</sub>	h <sub>1</sub>	h <sub>2</sub>	d	L
V10Z43MCM060	60 (132)	80 (3.1)	30 (1.18)	51 (2.00)	57 (2.24)	10 (.39)	15 (.59)	8.8 (.35)	95 (3.7)
V10Z43MCM060S		70 (2.8)	8.9 (.35)	50 (1.97)	34 (1.34)		16 (.63)		
V10Z43MCM100	100 (220)	120 (4.7)	46 (1.81)	75 (2.95)	76 (2.99)	20 (.79)	17 (.67)	11 (.43)	143 (5.6)
V10Z43MCM100S		85 (3.3)	8.9 (.35)	60 (2.36)	34 (1.34)		15 (.59)		15 (.59)

NOTE: Dimensions in ( ) are inch.



# Suspension Mounts



**SECTION 4**

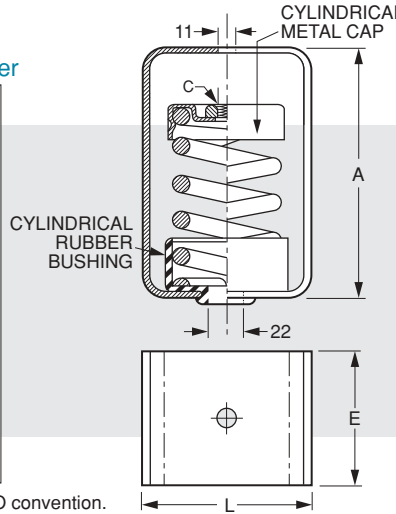
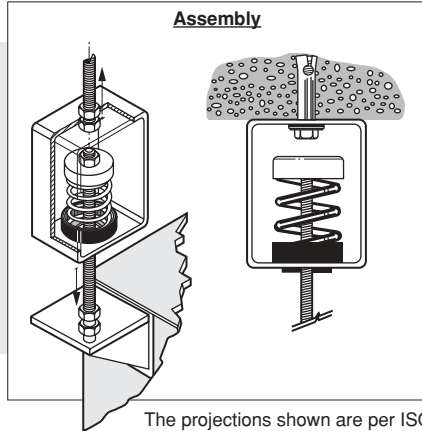


# Suspension Mounts – Spring Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Spring – DIN 17223-C  
Box – Carbon Steel  
Isolator – Natural Rubber

- **SUSPENDS MACHINERY**
- **LATERAL TO AXIAL STIFFNESS RATIO 0.8 TO 1**



**New**

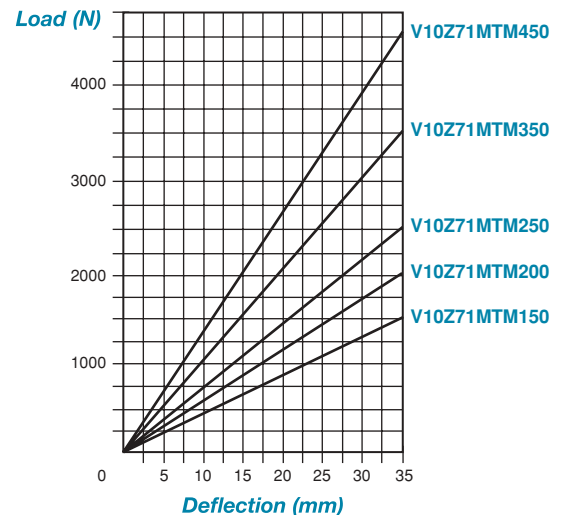
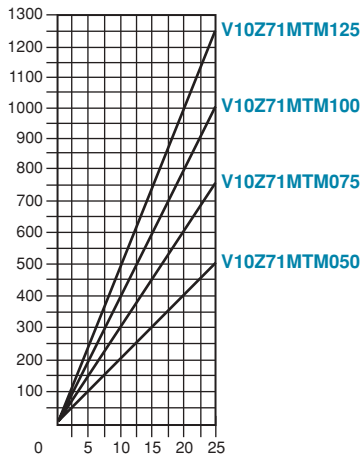
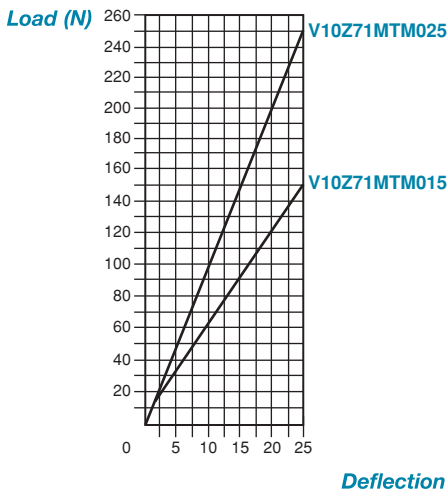
**Metric**

The projections shown are per ISO convention.

TEMPERATURE RANGE: -90°C TO 200°C (-130°F TO 392°F)

Catalog Number	A mm (in.)	C	E mm (in.)	L mm (in.)	Maximum		Minimum		Stiffness N/mm (lb./in.)	Admissible Temporary Overload %
					Load N (lb.)	Deflection mm (in.)	Load N (lb.)	Deflection mm (in.)		
V10Z71MTM015	100 (3.94)	M8	55 (2.17)	60 (2.36)	150 (33.7)	25 (.98)	60 (13.5)	10 (.39)	6 (34.3)	10
V10Z71MTM025					250 (56.2)		100 (22.5)		10 (57.1)	
V10Z71MTM050					500 (112.4)		200 (45)		20 (114.2)	
V10Z71MTM075				750 (168.6)	300 (67.4)		30 (171.3)			
V10Z71MTM100				1000 (224.8)	400 (89.9)		40 (228.4)			
V10Z71MTM125				1250 (281)	500 (112.4)		50 (285.5)			
V10Z71MTM150	150 (5.91)	M12	80 (3.15)	100 (3.94)	1500 (337.2)	35 (1.38)	640 (143.9)	15 (.59)	42.85 (244.7)	30
V10Z71MTM200					2000 (449.6)		860 (193.3)		57.14 (326.3)	
V10Z71MTM250					2500 (562)		1070 (240.5)		71.42 (407.8)	
V10Z71MTM350				3500 (786.8)	1050 (236)		100 (571)			
V10Z71MTM450				4500 (1011.6)	1930 (433.9)		128.57 (734.2)			

## PERFORMANCE GRAPHS



SECTION 4

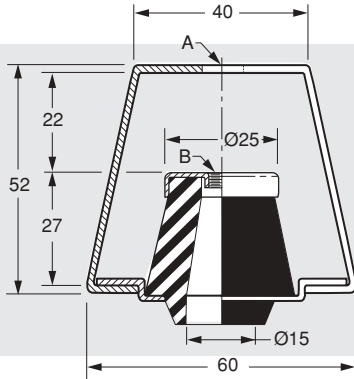


# Suspension Mounts – Rubber Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

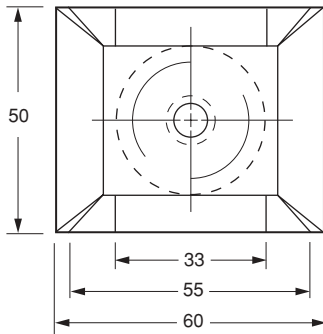
- MATERIAL: Metal Housing – Carbon Steel
- Isolator – Natural Rubber
- Bushing – Carbon Steel

- FOR SUSPENSION FROM CEILING
- STRONG & EASY TO ASSEMBLE



**New**

**Metric**

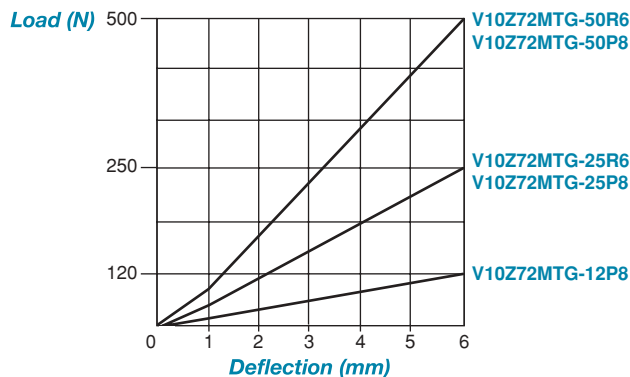


The projections shown are per ISO convention.

Catalog Number	Maximum Load N (lb.)	Deflection mm (in.)	Natural Frequency Hz.	A	B
V10Z72MTG-25R6	250 (56)	6 (.23)	7	M6	M6
V10Z72MTG-50R6	500 (112)				
*V10Z72MTG-12P8	120 (27)	6 (.23)	7	8*	8*
*V10Z72MTG-25P8	250 (56)				
*V10Z72MTG-50P8	500 (112)				

\*These parts have an 8 mm hole, not threaded.

PERFORMANCE GRAPH



SECTION 4



# Cable Isolators

In Section 5, starting on page 5-23, we offer a large selection of cable isolators. These assemblies are made of aircraft-quality, stranded, stainless steel cable, helically wound into metal retaining bars suitable for surface mounting. Shock and vibration are damped as the result of friction between strands of cable under load (“flexure hysteresis”). Their superior characteristics include their ability to provide protection in compression, extension, shear and roll in all axes simultaneously.

All stainless steel and aluminum construction gives these units an excellent ability to resist corrosion and leads to extremely long maintenance-free life. Below are some of the applications where the cable isolators can be superior to any other type of vibration mounts.



## General Characteristics and Uses

Application	Types of Equipment Protected	Sources of Vibration and Shock	Other Environmental Hazards	Critical Specifications (Limitations)	Needed Isolator Characteristics	Other Requirements
Shipboard Electronics	Navigation Displays, Radar Communication, Sonar	Nearby Blast, Ship's Inherent Vibration, Heavy Weather	Salt Water, Temperature Extremes	MIL-S-901D MIL-STD-167	Life of Installed Equipment, Corrosion Resistance, Maintenance-Free	Compliant in All Directions
Over-the-Road Vehicles	Instrumentation, Generators, Electronics	Irregular Terrain Poor Road Condition, Collision	Temperature Extremes, Ozone, Radioactivity, UV Radiation	Munson Rough Road Course, 10 g's Repeated Shock	Long Fatigue Life, Large Displacement	Minimum Space, Maintenance-Free for Inaccessible Locations
Shipping Containers	Jet Engines, Missiles, Gyroscopes, Electronics	Transit, Handling Drop, Loading / Unloading	Altitude Variations, Exposure to Moisture	Accidental Drop	Excellent Shock Mitigation	Indefinite Shelf Life, Repeated Use
Geophysical Equipment	Data Acquisition, Data Processing Electronics	Off-the-Road Vehicles, Transit Ship (Un)loading	Misaligned Installation, Rough Use	Severe Road Shock, Careless Handling	Maintenance-Free, No Replacement	Repeated Large Deflections Due to Load Shock
Chemical Processing Equipment	Centrifuge, Dryers, Pumps	Unbalanced Dynamic Loads, Fluid Hammer	Corrosive Environments, Chlorine, Sulfur	High Temperature, Corrosive Environments	Low Frequency Reponse	Maintenance-Free for Inaccessible Locations
Avionics	ECM, Communications, Reconnaissance	Rapid Maneuvering, Hard Landings, Turbulent Air	Temperature and Altitude Extremes	15-g 11ms Hard Landing MIL-STD-810	Long Fatigue Life, No Aging Deterioration, Lightweight	Low Profile, Dynamic Response Does Not Change with Temperature or Altitude
Ordnance Equipment	Missile Launcher, Tank Artillery, Computer Controls, Electronics	Off-Road Vehicles, Railroad Humping	Nearby Blast	Munson Rough Road Course, Railroad Humping	Excellent Shock Mitigation, Maintenance-Free	Use at Any Altitude
Medical Equipment	Mechanical Equipment Critical to Patient Care	Moving Parts, Moving Carts	—	Minimal Vibration	Easy to Maintain, No Outgassing	Can Be Sterilized



# Spring, Steel Mesh & Cable Mounts



## SECTION 5



# Spring Mounts – Elliptic Leaf Type (Naval "X" Type)

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

This type of vibration and shock isolator was designed specifically for shipboard or mobile applications. They are particularly suitable to protect delicate shipboard equipment from shock due to underwater explosions or sudden stoppage of vehicles for vehicle-mounted equipment.

All materials used are impervious to corrosion and will operate efficiently under a wide range of temperature, making the units well-suited for naval or aircraft applications. Their basic design employs two or more high tensile stainless steel "U" formed leaves, situated at each end, forming an elliptical shape when joined together in the center portion with face plates. The spaces between the "U" formed leaves are filled with a specially developed polymer or stainless steel mesh.

Nonmetallic collars backed by stainless steel washers are supplied for load attachment, while providing noise reduction. Inch size or metric bolts may be used for fastening of the equipment to the base or foundation.

Low transmitted shock accelerations are obtained by combining large permitted static deflection in every direction with a high energy loss within the mount. The high damping efficiency is obtained by the polymer which has a very low static stiffness. The load-bearing characteristics are determined by the metal construction of the mountings. These mounts may be used in tension as well as compression.

The "X" Mount is one of that rare breed that gives both vibration isolation and shock protection. Its low frequency ensures effective vibration isolation, except where the resonant frequency of the surrounding structure may be sympathetic with the mount's natural frequency. Similarly, care must be taken during transportation of equipment supported by "X" Mounts.

The main disadvantage of the mount is that transmissibility at resonance is high. In most applications this is not critical as the "X" Mounts are placed in areas that do not coincide with its resonant frequency. This special applications mount may be of particular interest not only for its improved vibration performance at low temperature, but also its lower natural frequency at room temperatures. This may avoid the need of trying to reduce the natural frequency by means of adding a rubber washer in tandem, as this procedure also increases the transmissibility at resonance of the system.

Shock protection of the new design has the added benefit of durability under repeated shocks at low temperatures.

## INSTALLATION OF "X" MOUNTS

Due to the sophisticated nature of the "X" Mounts, it is essential that they be correctly loaded. Incorrect loading will mean inadequate shock protection (this is true even in underloaded situations).

### Bad Practice

Due to the shape and size of the "X" Mount, there is a strong tendency to use the space created as storage. Needless to say,

any such placement can render the shock protection useless.

### Preferred Systems

Mounts supporting the system underneath only, with the center of gravity in the lower third of the unit, is preferred. When this is impossible, a fully suspended method should be used. Top steadies can be used where it is difficult to choose mounts to support the weight using a fully suspended configuration.

The practice of combining units on one raft is often carried out to ensure that a suitable loading is obtained. This practice is especially important for operator-controlled equipment; the seat can be mounted on the raft as well.

### Orientation

Where possible, the horizontal roll axis should be fore and aft, to minimize equipment movement due to ship roll, but any orientation is acceptable for shock protection. It is advisable to place mounts on any one piece of equipment in the same direction.

### TYPICAL APPLICATIONS INCLUDE:

- Heavy Machine Tools
- Air Compressors
- Engine Suspension
- Machine Mounting
- Machine Craft Installations
- Laboratory Equipment
- Electric Motors
- Factory Test Gear
- Seat Suspension in Aircraft and Vehicles
- Radar Communications Equipment
- Electronic Control Equipment
- Equipment Mountings in Tanks and Other Military Vehicles
- Bomb and Other Lifting Gear
- Refrigeration Compressors
- Mobile Vehicles
- Fuel Tanks
- Blowers and Fans
- Pumps



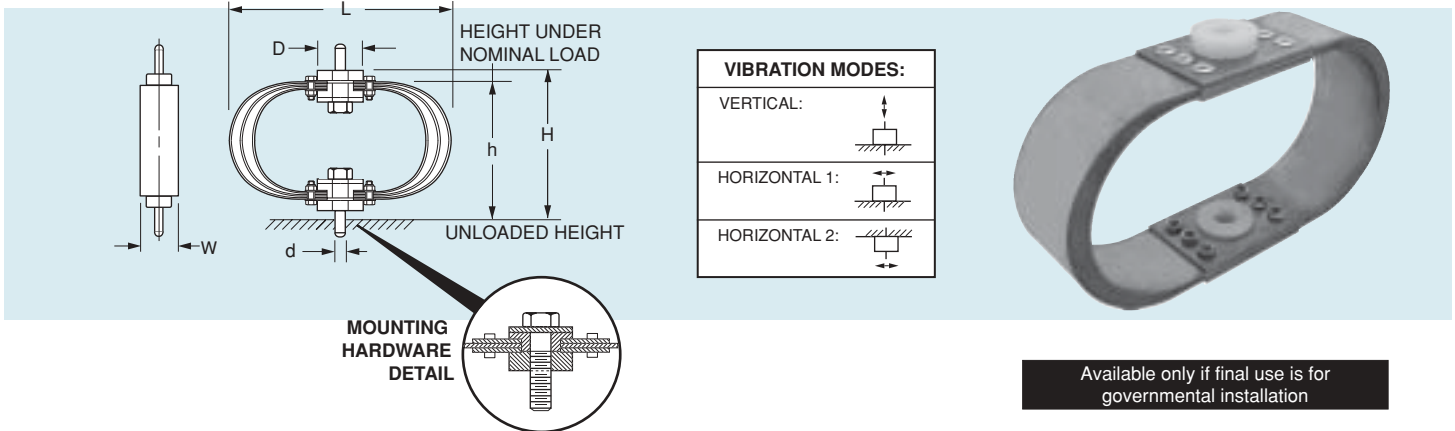


# Spring Mounts – Elliptic Leaf Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Leaves – 304 Stainless Steel\*  
Washers – Nylon and Stainless Steel  
Damping Compound – Polymer

- **NATO APPROVED NAVAL "X" MOUNTS**



Available only if final use is for governmental installation

TEMPERATURE RANGE: +50°F to +86°F  
+10°C to +30°C

Shown as mounted (bolts and washers are not supplied).

Catalog Number	Nominal Load lb. (kgf)	Load Range lb. (kgf)	L Length in. (mm)	W Width in. (mm)	H Height Unloaded with Washers in. (mm)	h Height Loaded with Washers in. (mm)	D Diameter Washers in. (mm)	d Bolt Hole in. (mm)	Bolt Size UNF in. (nearest metric)	Weight lb. (kg)
V10Y15-57170025	25 (11.3)	20-40 (9-18)	8 (203)	2 (50.8)	4.5 (114)	4.17 (106)	1.25 (31.75)	.354 (9)	5/16 (8)	1.5 (0.68)
V10Y15-57180050	50 (22.7)	40-75 (18-34)				4.85 (123)				1.75 (0.8)
V10Y15-57190100	100 (45.4)	75-120 (34-54)	8.5 (216)	2 (50.8)	5.25 (133)	4.88 (124)	1.25 (31.75)	.512 (13)	1/2 (12)	2.25 (1.02)
V10Y15-57200150	150 (68)	120-200 (54-91)				7.3 (185)				2.5 (1.13)
V10Y15-57210250	250 (113.5)	200-300 (91-136)				7.25 (184)				2.75 (1.25)
V10Y15-84290400	400 (181.4)	300-550 (136-250)	11.7 (297)	4 (101.6)	7.5 (190)	7.3 (185)	2.5 (63.5)	.827 (21)	3/4 (20)	13 (5.9)
V10Y15-84280700	700 (317.5)	550-850 (250-386)				7.25 (184)				14.5 (6.57)
V10Y15-84271000	1000 (453.6)	850-1200 (386-545)				7.3 (185)				16 (7.25)

Catalog Number	Static Stiffness			Natural Frequencies - Hz		
	Vertical lb./in. (kg/cm)	Horizontal 1 lb./in. (kg/cm)	Horizontal 2 lb./in. (kg/cm)	Vertical	Horizontal 1	Horizontal 2
V10Y15-57170025	75 (13.39)	40 (7.14)	100 (17.88)	7.5	4.5	5.5
V10Y15-57180050	150 (26.79)	80 (14.29)	200 (35.72)			
V10Y15-57190100	250 (44.65)	135 (24.11)	330 (58.93)	7.5	4.5	5.5
V10Y15-57200150	400 (71.43)	220 (39.29)	520 (92.86)			
V10Y15-57210250	650 (116.08)	350 (62.5)	850 (151.8)			
V10Y15-84290400	2300 (410.74)	620 (110.72)	3070 (548.25)	10.5	4.5	5.5
V10Y15-84280700	3000 (535.75)	760 (135.72)	2700 (482.17)	7.5	4.0	5.0
V10Y15-84271000	4800 (857.2)	1100 (196.44)	4000 (714.33)			

\*NOTE: Available in natural finish or painted black (at a higher price on special order).

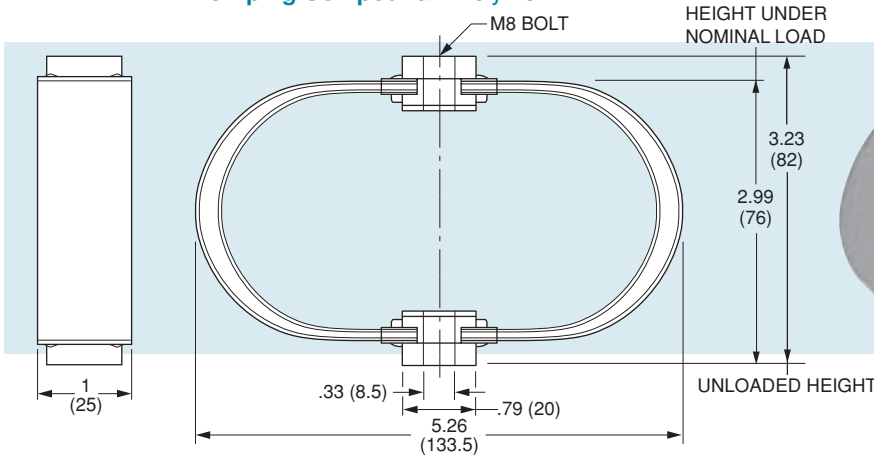


# Spring Mounts – Elliptic Leaf Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Leaves – 304 Stainless Steel  
Washers – Nylon and Stainless Steel  
Damping Compound – Polymer

- **NATO APPROVED NAVAL "X" MOUNTS**  
• **LIGHTWEIGHT**



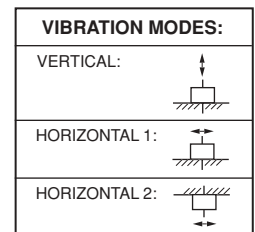
**New**

Available only if final use is for governmental installation

NOTE: Dimensions in ( ) are mm.

## FEATURES:

The 6 kg Mount is designed to isolate lightweight equipment (i.e. computers, printers, electronics panels etc.) from shock and vibration and has similar properties to the present range of 'X' mounts with some reduction in the available deflection under shock conditions.



TEMPERATURE RANGE: +50°F to +86°F  
+10°C to +30°C

Catalog Number	Nominal Load lb. (kgf)	Load Range lb. (kgf)	Bolt Size UNF in. (nearest metric)	Weight Excluding Bolt lb. (kg)	Static Stiffness			Natural Frequencies - Hz		
					Vertical lb./in. (kg/cm)	Horizontal 1 lb./in. (kg/cm)	Horizontal 2 lb./in. (kg/cm)	Vertical	Horizontal 1	Horizontal 2
V10Y15-39210013	13.2 (6)	10.6–15.9 (4.8–7.2)	1/4 (6)	.31 (0.14)	33 (5.91)	43 (7.68)	18 (3.25)	7.2–8.9	8.3–10.1	5.4–6.6

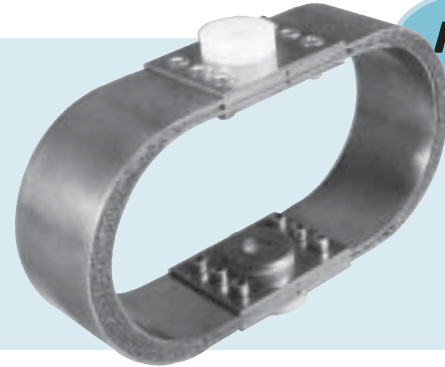
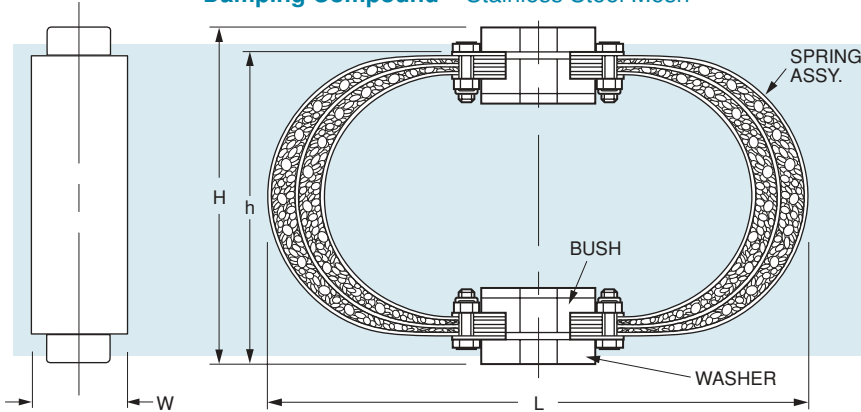


# Spring Mounts – Elliptic Leaf Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Leaves – 304 Stainless Steel  
Washers – Nylon and Stainless Steel  
Damping Compound – Stainless Steel Mesh

- NATO APPROVED NAVAL "XM" MOUNTS  
• FOR EXTREME ENVIRONMENTAL CONDITIONS



Available only if final use is for governmental installation

TEMPERATURE RANGE: -238°F to +752°F  
-150°C to +400°C

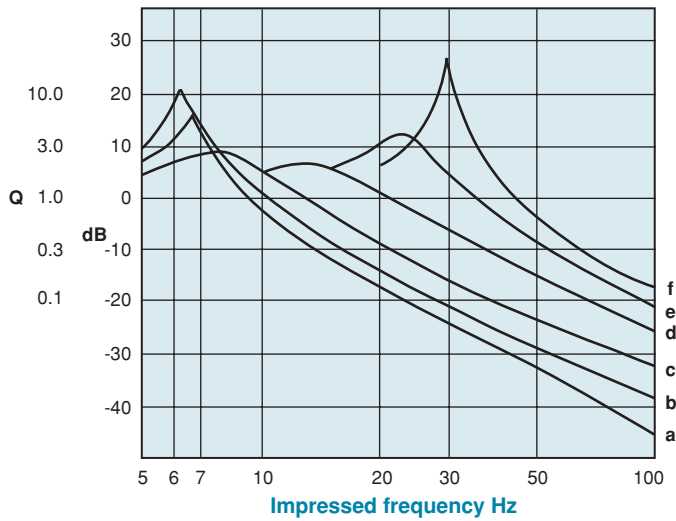
Catalog Number	Nominal Load lb. (kgf)	Load Range lb. (kgf)	L Length in. (mm)	W Width in. (mm)	H Height Unloaded with Washers in. (mm)	h Height Loaded with Washers in. (mm)	D Diameter Washers in. (mm)	d Bolt Hole in. (mm)	Bolt Size UNF in. (nearest metric)	Weight lb. (kg)
V10Y15-5717M0025	25 (11.3)	20-40 (9-18)	8 (203)	2 (50.8)	4.5 (114)	4.17 (106)	1.25 (31.75)	.354 (9)	5/16 (8)	1.5 (0.68)
V10Y15-5718M0050	50 (22.7)	40-75 (18-34)				4.85 (123)				1.75 (0.8)
V10Y15-5719M0100	100 (45.4)	75-120 (34-54)	8.5 (216)	2 (50.8)	5.25 (133)	4.88 (124)	1.25 (31.75)	.512 (13)	1/2 (12)	2.25 (1.02)
V10Y15-5720M0150	150 (68)	120-200 (54-91)				7.3 (185)				2.5 (1.13)
V10Y15-5721M0250	250 (113.5)	200-300 (91-136)				7.25 (184)				2.75 (1.25)
V10Y15-8429M0400	400 (181.4)	300-550 (136-250)	11.7 (297)	4 (101.6)	7.5 (190)	7.3 (185)	2.5 (63.5)	.827 (21)	3/4 (20)	13 (5.9)
V10Y15-8428M0700	700 (317.5)	550-850 (250-386)				7.25 (184)				14.5 (6.57)
V10Y15-8427M1000	1000 (453.6)	850-1200 (386-545)				7.3 (185)				16 (7.25)



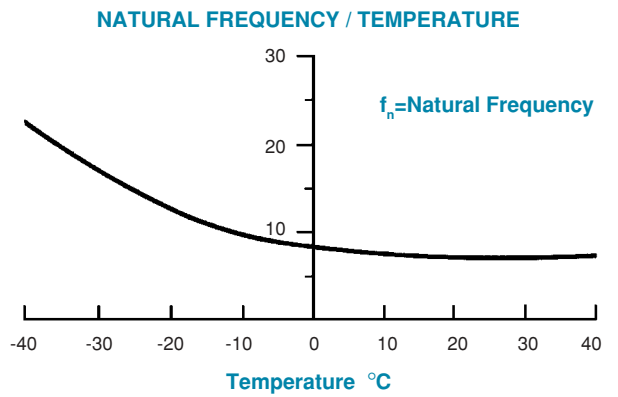
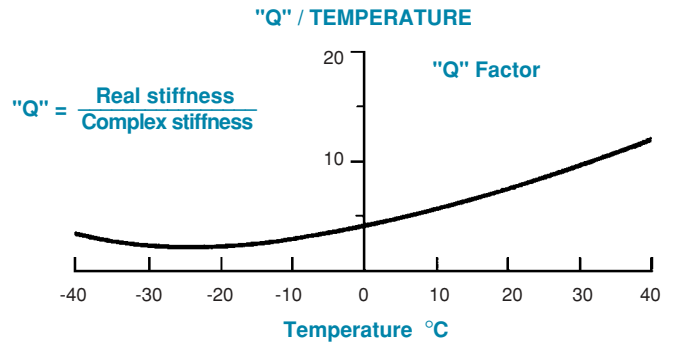
# Spring Mounts – Elliptic Leaf Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

## TRANSMISSIBILITY / TEMPERATURE / RESONANCE



	Temp °C (°F)	$f_n$ Hz	Q
<b>a</b>	41.6 (106.9)	6.2	10.2
<b>b</b>	29.9 (85.8)	6.6	6.1
<b>c</b>	19.7 (67.5)	7.6	2.8
<b>d</b>	10.2 (50.4)	13.0	2.2
<b>e</b>	0.5 (32.9)	22.0	4.0
<b>f</b>	-16.1 (3.0)	29.6	22.7





# Spring Mounts – Foam Type – To 1250 N

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Spring – Steel (Black Cataphoresis or Blue Epoxy)  
Base – Carbon Steel Bushing – Carbon Steel  
Isolator – Polyethylene  
Base Pad – Foam Rubber

- **WORKING TEMPERATURE RANGE**  
-90°C TO 200°C (-130°F TO 392°F)
- **LATERAL TO AXIAL STIFFNESS RATIO 0.8 TO 1**

**New**



M Style  
Base Mounting  
shown

**Metric**

The projections shown are per ISO convention.

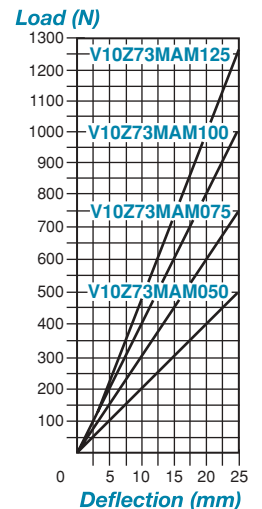
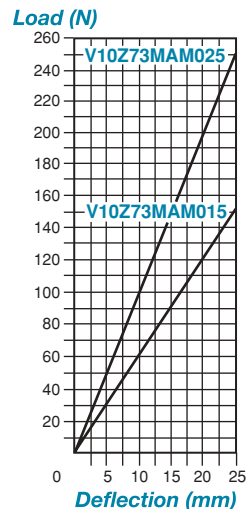
Catalog Number	Maximum		Minimum		Stiffness N/mm (lb./in.)	Admissible Temporary Overload %
	Load N (lb.)	Deflection mm (in.)	Load N (lb.)	Deflection mm (in.)		
V10Z73MAM015 <input type="checkbox"/>	150 (33.7)	25 (.98)	60 (13.5)	10 (.39)	6 (34.3)	10
V10Z73MAM025 <input type="checkbox"/>	250 (56.2)		100 (22.5)		10 (57.1)	
V10Z73MAM050 <input type="checkbox"/>	500 (112.4)		200 (45.0)		20 (114.2)	
V10Z73MAM075 <input type="checkbox"/>	750 (168.6)		300 (67.4)		30 (171.3)	
V10Z73MAM100 <input type="checkbox"/>	1000 (224.8)		400 (89.9)		40 (228.4)	
V10Z73MAM125 <input type="checkbox"/>	1250 (281.0)		500 (112.4)		50 (285.5)	

To complete the part number please specify mounting style.

Continued on the next page

## PERFORMANCE GRAPHS

Mounting Style	Description	A Free Height mm (in.)	Height at 25 mm (.98 in.) Deflection mm (in.)
C	No bases	71 (2.80)	46 (1.81)
M	Lower base attached	74 (2.91)	49 (1.93)
R	Upper and Lower bases attached	77 (3.03)	52 (2.05)



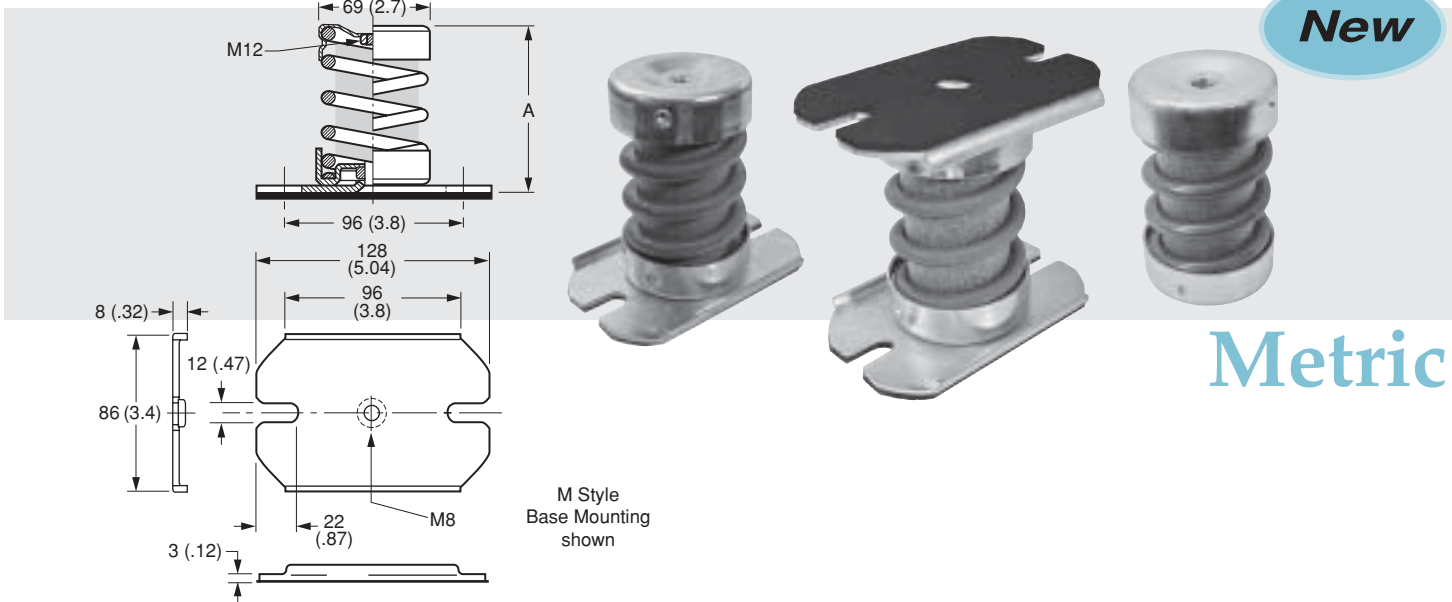


# Spring Mounts – Foam Type – To 4500 N

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Spring – Steel (Black Cataphoresis or Blue Epoxy)  
 Base – Carbon Steel Bushing – Carbon Steel  
 Isolator – Polyethylene  
 Base Pad – Foam Rubber

- **WORKING TEMPERATURE RANGE**  
 -90°C TO 200°C (-130°F TO 392°F)
- **LATERAL TO AXIAL STIFFNESS RATIO 0.8 TO 1**



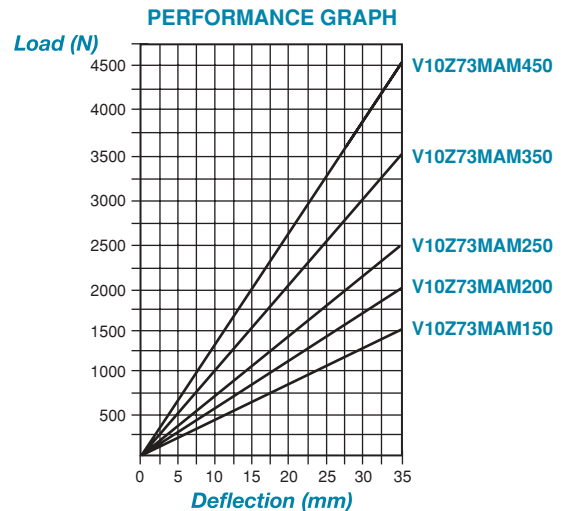
Metric

Catalog Number	Maximum		Minimum		Stiffness N/mm (lb./in.)	Admissible Temporary Overload %
	Load N (lb.)	Deflection mm (in.)	Load N (lb.)	Deflection mm (in.)		
V10Z73MAM150 <input type="checkbox"/>	1500 (337.2)	35 (1.38)	640 (143.9)	15 (.59)	43 (245.5)	30
V10Z73MAM200 <input type="checkbox"/>	2000 (449.6)		860 (193.3)		57 (325.5)	
V10Z73MAM250 <input type="checkbox"/>	2500 (562.0)		1070 (240.5)		71 (405.4)	20
V10Z73MAM350 <input type="checkbox"/>	3500 (786.8)		1500 (337.2)		100 (571.0)	
V10Z73MAM450 <input type="checkbox"/>	4500 (1011.6)		1930 (433.9)		129 (736.6)	14
					11	

To complete the part number please specify mounting style.



Mounting Style	Description	A Free Height mm (in.)	Height at 35 mm (1.38 in.) Deflection mm (in.)
C	No bases	111 (4.37)	76 (2.99)
M	Lower base attached	114 (4.49)	79 (3.11)
R	Upper and Lower bases attached	117 (4.61)	82 (3.23)



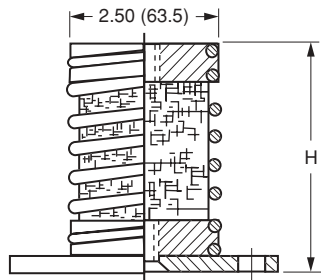
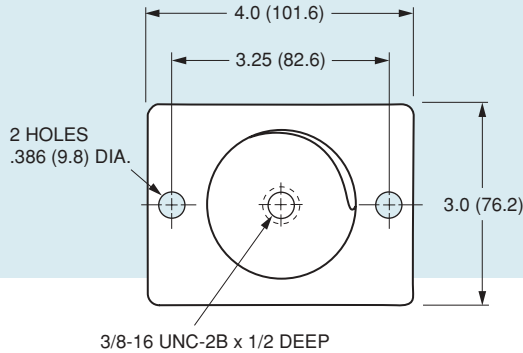




# Spring Mounts – Damped Type – To 200 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Base Plate – Mild Steel  
Springs – High-Tensile Steel - Phosphated & Dyed Black  
Isolator – Knitted Stainless Steel Mesh  
End Caps – Light Alloy
- **CORROSIVE ENVIRONMENT**  
• **STAINLESS STEEL MESH**
- **FOR LOADS OF 60 TO 200 POUNDS (27 TO 90 kgf)**



**NOTE:** Dimensions in ( ) are mm.

## CHARACTERISTICS

Lateral to vertical stiffness ratio approximately 1:1. Elastic Limit corresponds to a maximum load in compression of .042 oz. (1.2 g) and radially .007 oz. (0.2 g). Damping factor  $c/c_0$  .10 to .15.

## APPLICATIONS

- MEDIUM-HEAVY INDUSTRIAL EQUIPMENT
- OPTICAL EQUIPMENT
- LABORATORY EQUIPMENT

## MOUNTING

Must be loaded vertically through its axis.

**TEMPERATURE RANGE:** -94°F to +347°F (-70°C to +175°C)

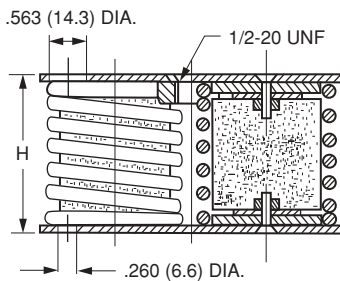
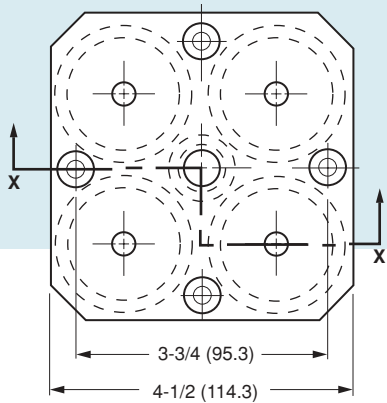
Catalog Number	Static Load		Natural Frequency Hz	H - Height			
				Free		Max. Load	
	lb.	kgf		in.	mm	In.	mm
V10Z30-2273	60 – 90	27 – 40	2 – 2-1/2	5.7	144	3.0	76.2
V10Z30-2274	90 – 135	40 – 61					
V10Z30-2275	135 – 200	61 – 90					



# Spring Mounts – Damped Type – To 750 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Mounting Plates – Mild Steel, Painted  
Spirals – High-Tensile Steel; Phosphated, Dyed Black  
Isolators – Knitted Stainless Steel Mesh
- **CORROSIVE ENVIRONMENT**  
• **STAINLESS STEEL MESH**
- **FOR LOADS OF 150 TO 750 POUNDS (68 TO 340 kgf)**



**SECTION X-X**

**NOTE:** Dimensions in ( ) are mm.

### CHARACTERISTICS

Lateral to vertical stiffness approximately 1:1. Elastic Limit corresponds to a maximum load in compression of .042 oz. (1.2 g) and radially .007 oz. (0.2 g). Damping factor  $c/c_0$  .15 to .20.

### APPLICATIONS

- HEAVY LOADS
- COMPRESSORS
- PUMPS
- GRAIN VIBRATORS

### MOUNTING

Must be loaded vertically through its axis.

**TEMPERATURE RANGE:** -94°F to +347°F (-70°C to +175°C)

Catalog Number	Static Load		Natural Frequency Hz	H - Height			
				Free		Max. Load	
	lb.	kgf		in.	mm	in.	mm
V10Z31-2461	150 – 260	68 – 118	4 – 4-1/2	3.0	76.2	2.378	60.4
V10Z31-2462	250 – 450	113 – 205					
V10Z31-2463	440 – 750	200 – 340					



# Selection Criteria – V10Z32 Mounts

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

## INDUSTRIAL AND MARINE APPLICATIONS

The following table gives recommended isolation efficiency in relation to site configuration and driving motor power. If site configuration is not known, assume for basement condition. Transfer the recommended efficiency to the transmissibility curves on the graph.

Driving Motor, kW	Recommended Isolation Efficiency:		
	Basement or Ground Floor	Upper Floor Heavy Construction	Upper Floor Light Construction
Up to 4	—	50%	90%
4 – 10	50%	75%	93%
10 – 30	80%	90%	95%
30 – 75	90%	95%	97.5%
75 – 225	95%	97%	98.5%

### EXAMPLE

Project a line from the efficiency required on the right-hand side to intersect the performance lines 1008, 1006 and 1004. Project those intersections down to obtain the two dimensionless ratios (R) for the three mountings. Divide the lowest running speed (Hz) of the complete machine by R to give the natural frequency  $f'_n$  required. Compare  $f'_n$  with the actual natural frequency ( $f_n$ ) of the mounting concerned. If  $f'_n$  fits into the  $f_n$  band of the mounting, select that mounting. If two mountings meet the above conditions, select the one with higher  $f_n$ ; it will be more stable.

A fan turning at 980 rpm (16.3 Hz) driven by a 7 kw motor running at 1470 rpm, which is to be installed on an upper floor of light construction:

Recommended efficiency = 93%

first projection gives  $R = 5.5$  for 1008

$$\text{and from } f_n = \frac{f}{R}, f_n = \frac{16.3}{5.5} = 2.96 \text{ Hz}$$

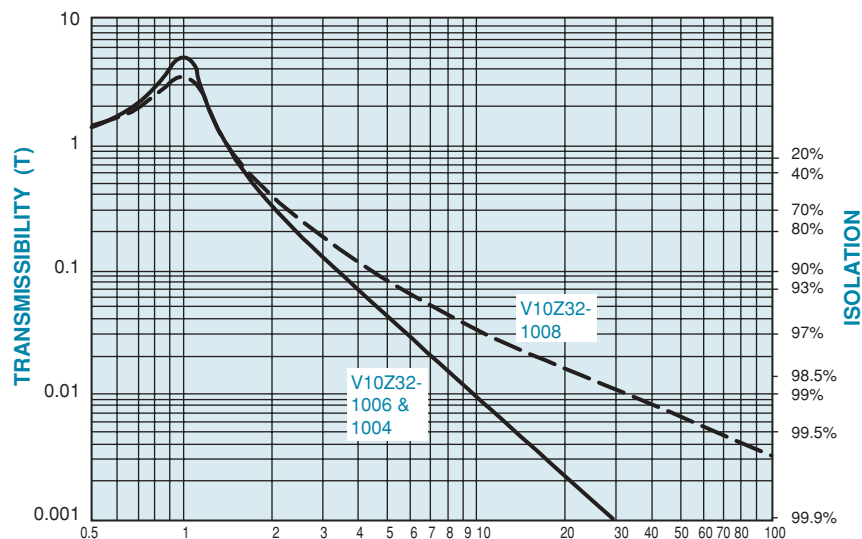
discard 1008 as it has  $f_n = 9$  to 7 Hz

second projection gives  $R = 4$  for 1006 & 1004

$$\text{again } f_n = \frac{16.3}{4} = 4.08 \text{ Hz}$$

which fits 1004,  $f_n = 5$  to 3 Hz

Now, all that remains is to place sufficient 1004 series mountings under the machine to support its weight evenly.



$$(R) \text{ FREQUENCY RATIO} = \frac{f}{f_n} = \frac{\text{ROTATION SPEED OF MACHINERY (Hz)}}{\text{MOUNTING NATURAL FREQUENCY (Hz)}}$$

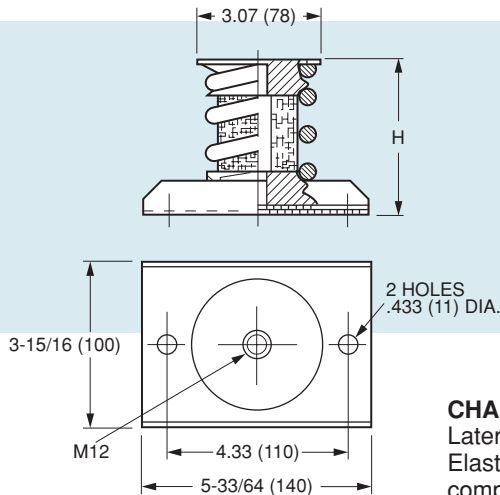


# Spring Mounts – Damped Type – To 1235 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Mounting Plates – Mild Steel, Painted  
Springs – High-Tensile Steel; Phosphated, Dyed Black  
Isolator – Knitted Stainless Steel Mesh

- **CORROSIVE ENVIRONMENT**  
• **STAINLESS STEEL MESH**
- **FOR LOADS OF 66 TO 1235 POUNDS (30 TO 560 kgf)**



**NOTE:** Dimensions in ( ) are mm.



## CHARACTERISTICS

Lateral to vertical stiffness approximately 1:1.  
Elastic Limit corresponds to a maximum load in compression of .042 oz. (1.2 g) and radially .007 oz. (0.2 g). Damping factor  $c/c_0$  .15 to .20.

## APPLICATIONS

- HEAVY LOADS
- COMPRESSORS
- PUMPS
- GRAIN VIBRATORS

## MOUNTING

Must be loaded vertically through its axis.

**TEMPERATURE RANGE:** -94°F to +347°F (-70°C to +175°C)

Catalog Number	H		Natural Frequency Hz	Equivalent Static Deflection	Static Load Range	
	Free	Loaded			lb.	kgf
V10Z32-100411					165 – 243	75 – 110
V10Z32-100412					209 – 287	95 – 130
V10Z32-100413	5.82 (148)	5.04 (128)	3 – 5	.394 – 1.181 (10 – 30)	276 – 353	125 – 160
V10Z32-100414					353 – 507	160 – 230
V10Z32-100415					463 – 683	210 – 310
V10Z32-100416					661 – 926	300 – 420
V10Z32-100611					66 – 110	30 – 50
V10Z32-100612					110 – 176	50 – 80
V10Z32-100613	3.94 (100)	3.54 (90)	5 – 7	.197 – .394 (5 – 10)	176 – 275	80 – 125
V10Z32-100614					276 – 430	125 – 195
V10Z32-100615					430 – 683	195 – 310
V10Z32-100616					683 – 926	310 – 420
V10Z32-100811					88 – 187	40 – 85
V10Z32-100812					143 – 246	65 – 125
V10Z32-100813	3.94 (100)	3.54 (90)	7 – 9	.118 – .197 (3 – 5)	243 – 419	110 – 190
V10Z32-100814					386 – 595	175 – 270
V10Z32-100815					551 – 882	250 – 400
V10Z32-100816					794 – 1235	360 – 560

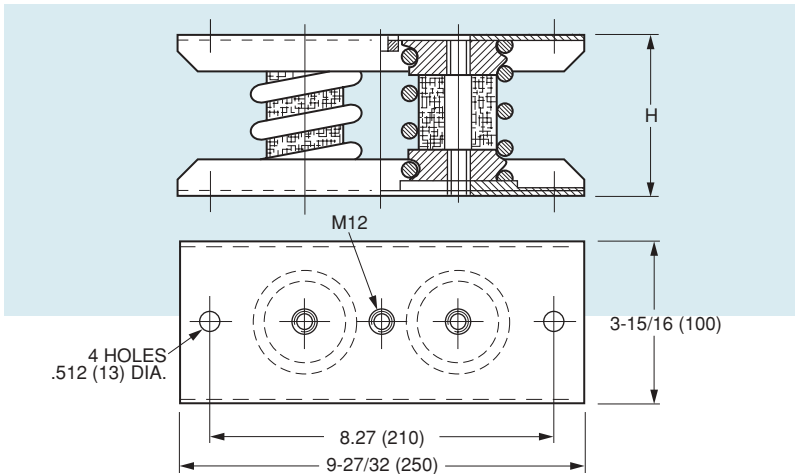


# Spring Mounts – Damped Type – To 2469 lbs.

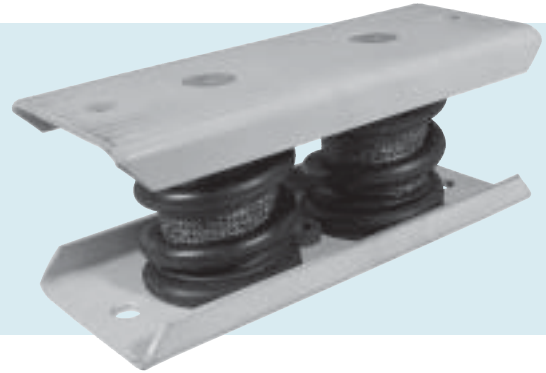
www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Mounting Plates – Mild Steel, Painted  
Spirals – High-Tensile Steel; Phosphated, Dyed Black  
Isolator – Knitted Stainless Steel Mesh

- **CORROSIVE ENVIRONMENT**  
• **STAINLESS STEEL MESH**  
• **FOR LOADS OF 860 TO 2469 POUNDS (390 TO 1120 kgf)**



NOTE: Dimensions in ( ) are mm.



## CHARACTERISTICS

Lateral to vertical stiffness approximately 1:1. Elastic Limit corresponds to a maximum load in compression of .042 oz. (1.2 g) and radially .007 oz. (0.2 g). Damping factor  $c/c_0$  .15 to .20.

## APPLICATIONS

- HEAVY LOADS
- COMPRESSORS
- PUMPS
- GRAIN VIBRATORS

## MOUNTING

Must be loaded vertically through its axis.

TEMPERATURE RANGE: -94°F to +347°F (-70°C to +175°C)

Catalog Number	H		Natural Frequency Hz	Equivalent Static Deflection	Static Load Range	
	Free	Loaded			lb.	kgf
V10Z32-100425	5.82 (148)	5.04 (128)	3 – 5	.394 – 1.181 (10 – 30)	860 – 1367	390 – 620
V10Z32-100426					1323 – 1852	600 – 840
V10Z32-100625	3.94 (100)	3.54 (90)	5 – 7	.197 – .394 (5 – 10)	860 – 1367	390 – 620
V10Z32-100626					1367 – 1852	620 – 840
V10Z32-100825	3.94 (100)	3.54 (90)	7 – 9	.118 – .197 (3 – 5)	1102 – 1764	500 – 800
V10Z32-100826					1587 – 2469	720 – 1120



# Spring Mounts – Silicone Gel Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

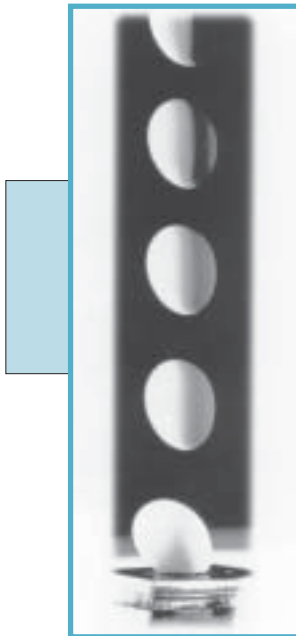
- **MATERIAL:** Studs – Brass  
Body – Silicone Gel  
Spring – Piano Wire Type B, Nickel Plated
- **DAMPS LOW FREQUENCY VIBRATIONS**
- **VERTICAL VIBRATIONS DAMPED WITHOUT HORIZONTAL DEFLECTION**
- **TO BE USED IN COMPRESSION ONLY**



NOTE: Dimensions in ( ) are inch.

TEMPERATURE RANGE: -40°C to +200°C (-40°F to +392°F)

Catalog Number	Optimum Load kgf /leg (lb./leg)	Resonance Point Hz	Resonance Magnification dB	Recommended Frequency Hz	Thread
V10Z61MBG7	0.8 to 1.6 (1.8 to 3.5)	10 to 8	16 to 14	from 14	M3
V10Z61MBG8	1.5 to 4 (3.3 to 8.8)		18 to 16		M6



### Demonstration of Silicone Gel's outstanding shock-absorbing abilities.

An ordinary fresh raw egg dropped down from 18 meters (59 ft.) high to a 2 cm (.787 in.) thick Silicone Gel bed does not break. It is publicly proven many times.



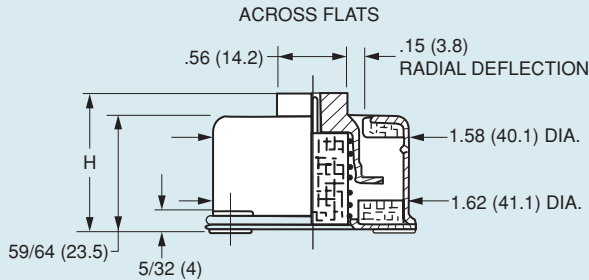


# Steel Spring and Mesh Mounts – To 10 lbs.

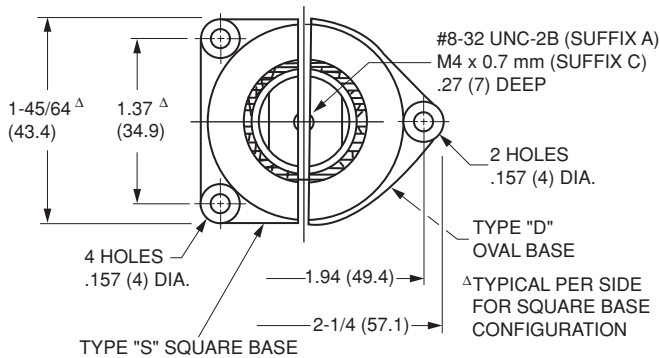
www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Housing – Aluminum Alloy, Anodized  
Eyelets – Brass, Tin Plated  
Isolators – Stainless Steel Spring and Mesh

- **CORROSIVE ENVIRONMENT • STAINLESS STEEL MESH**  
• **FOR LOADS OF .5 TO 10 POUNDS (.25 TO 4.6 kgf)**



**NOTE:** MAX BOLT LENGTH INTO CAP IS 9/32 (7.1)



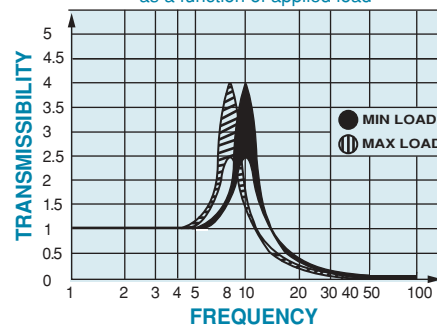
**NOTE:** Dimensions in ( ) are mm.

### DYNAMIC CHARACTERISTICS

Ratio between transverse and axial stiffness (vertical) approximately 1:2.5  
 Natural frequency = 7 to 11 Hz vertical and 4.5 to 7 Hz transverse depending on load, for a displacement input  $\pm .014$  (0.35).  
 Maximum displacement input  $\pm .016$  (0.4).  
 Transmissibility  $\leq 4:1$ .  
 Conforms to MIL-E-5400

**TEMPERATURE RANGE:** -94°F to +347°F  
 -70°C to +175°C

**TYPICAL TRANSMISSIBILITY CURVE**  
as a function of applied load



### LOADING LIMITATIONS

Prior to abutting snubber, load corresponding to a continuous acceleration of at least 2 G.  
 Loads corresponding to at least 10 G may be accepted without subsequently affecting the mount performance.  
 Maximum displacement of the suspended unit under limiting loads  $\pm .197$  (5).

### APPLICATIONS

- AIRCRAFT
- MARINE
- MOBILE
- ROTATING MACHINES

Catalog Number	Base Type		Thread		Static Load		H - Height				Weight (Approx.)	
	Square	Oval	#8-32 UNC-2B	M4 x 0.7 mm			Free		Max. Load			
					lb.	kgf	in.	mm	in.	mm	oz.	kg
V10Z19-7011SA	•		•		.55 – 1.00	0.25 – 1						
V10Z19-7012SA	•		•		.80 – 1.80	0.35 – 0.8						
V10Z19-7013SA	•		•		1.50 – 3.40	0.7 – 1.5						
V10Z19-7014SA	•		•		2.20 – 5.60	1 – 2.55	1.35	38.1	1.09	27.68	1.4	0.04
V10Z19-7015DA		•	•									
V10Z19-7015DC		•		•								
V10Z19-7015SA	•		•		5.60 – 10.10	2.55 – 4.6						
V10Z19-7015SC	•			•								

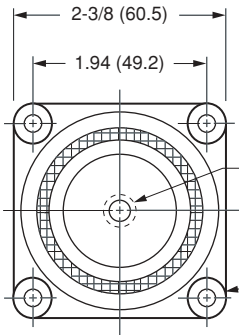
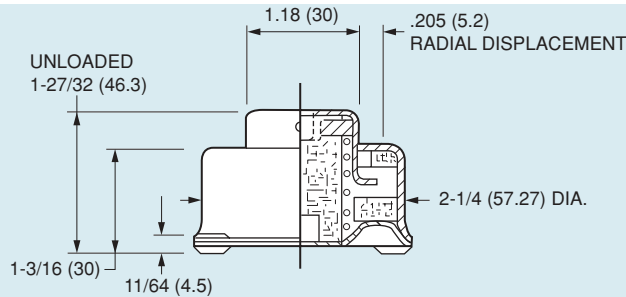


# Steel Spring and Mesh Mounts – To 132 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Housing – Aluminum Alloy, Anodized  
Eyelets – Brass, Tin Plated  
Isolators – Stainless Steel Spring and Mesh

- **CORROSIVE ENVIRONMENT • STAINLESS STEEL MESH**  
• **FOR LOADS OF 1.5 TO 132 POUNDS (0.7 TO 60 kgf)**



**NOTE:**  
MAX FIXING BOLT LENGTH INTO CAP A, B, & C IS 23/64 (9.14)  
INTO CAP D IS .580 (14.73)  
1/4-20 UNC-2B (SUFFIX A)  
1/4-28 UNF-2B (SUFFIX B)  
M6 x 1 mm (SUFFIX C)  
3/8-24 UNF (SUFFIX D)

**NOTE:** Dimensions in ( ) are mm.

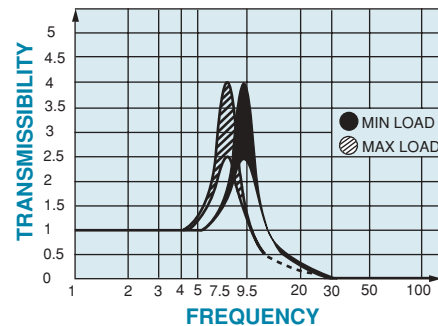
### DYNAMIC CHARACTERISTICS

In accordance with curve 1 of spec MIL-C-172.  
Ratio between transverse and axial stiffness (vertical): approximately 1:2.5.  
Natural Frequency = 7 to 10 Hz vertical and 4.5 to 6 Hz transverse depending on load for a displacement input of  $\pm .030$  (0.75).  
Maximum displacement input  $\pm .031$  (0.8)  
Transmissibility:  $\leq 4:1$   
Conforms to MIL-E-5400C

**TEMPERATURE RANGE:** -94°F to +347°F (-70°C to +175°C)

**WEIGHT:** 3.53 - 4.41 oz. (100-125 g) approx.

**TYPICAL TRANSMISSIBILITY CURVE**  
as a function of applied load



### LOADING LIMITATIONS

Just prior to abutting snubber, load corresponding to a continuous acceleration of at least 2 G.  
Loads corresponding to at least 10 G may be accepted without subsequently affecting the mount performance.  
Maximum displacement of the suspended unit under limiting loads  $\pm .236$  (6).

### APPLICATIONS

- AIRCRAFT
- MARINE
- MOBILE
- ROTATING MACHINES

Catalog Number				Static Load	
1/4-20 UNC-2B	1/4-28 UNF-2B	M6 x 1 mm	3/8-24 UNF	lb.	kgf
V10Z22-7201A	V10Z22-7201B	V10Z22M7201C	V10Z22-7201D	1.55 – 2.75	0.7 – 1.25
V10Z22-7202A	V10Z22-7202B	V10Z22M7202C	V10Z22-7202D	2.55 – 5.00	1.15 – 2.3
V10Z22-7203A	V10Z22-7203B	V10Z22M7203C	V10Z22-7203D	4.40 – 9.90	2 – 4.5
V10Z22-7204A	V10Z22-7204B	V10Z22M7204C	V10Z22-7204D	6.20 – 12.35	2.8 – 5.6
V10Z22-7205A	V10Z22-7205B	V10Z22M7205C	V10Z22-7205D	9.90 – 19.85	4.5 – 9
V10Z22-7206A	V10Z22-7206B	V10Z22M7206C	V10Z22-7206D	15.40 – 30.85	7 – 14
V10Z22-7207A	V10Z22-7207B	V10Z22M7207C	V10Z22-7207D	17.65 – 39.70	8 – 18
V10Z22-7209A	V10Z22-7209B	V10Z22M7209C	V10Z22-7209D	35.30 – 48.50	16 – 22
V10Z22-7210A	V10Z22-7210B	V10Z22M7210C	V10Z22-7210D	44.10 – 72.75	20 – 33
—	—	—	V10Z22-7211D	72.75 – 132.30	33 – 60

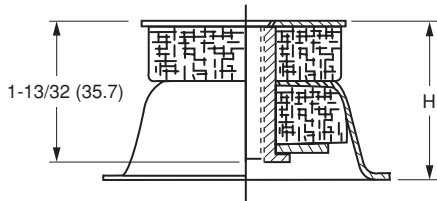
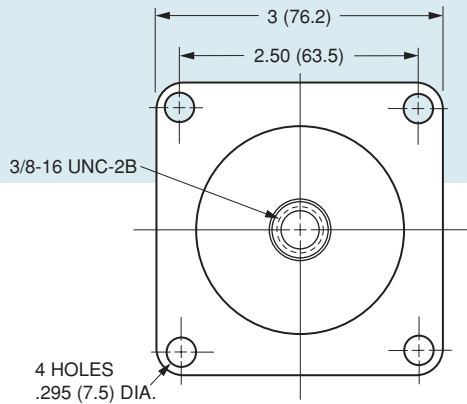
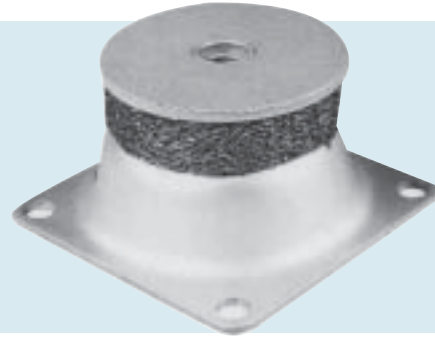


# Steel Mesh Mounts – To 1000 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Cap and Base – Aluminum Alloy  
Center Stud – Aluminum Alloy  
Isolator – Knitted Stainless Steel Mesh
- **FINISH:** Alocrome 1200 on all Aluminum components

- **FOR LOADS OF 10 TO 1000 POUNDS (4.6 TO 453.5 kgf)**
- **STAINLESS STEEL MESH**



**NOTE:** Dimensions in ( ) are mm.

## APPLICATIONS

- LIGHTWEIGHT MACHINE TOOLS
- PRINTING AND TEXTILE MACHINERY

## CHARACTERISTICS

Although normally intended to be used in compression, they will accept accidental tensile loads. The mounts should be fixed to the floor for loads in excess of 220 lb. (99.8 kgf) or when working conditions require it. They will accept compressive loads at least five times the static load.

Catalog Number	Static Load		Natural Frequency Hz	Weight		H - Height			
	lb.	kgf		oz.	kg	Free		Max. Load	
						in.	mm	in.	mm
V10Z28-1641	10 – 20	4.55 – 9.05	13 – 17 For an amplitude of ± .012(0.3)	6.33	0.18	1.91	48.6	1.44	36.6
V10Z28-1642	20 – 50	9.05 – 22.5							
V10Z28-1643	50 – 100	22.5 – 45.35							
V10Z28-1644	100 – 200	45.35 – 90.7							
V10Z28-1645	200 – 500	90.7 – 226.8							
V10Z28-1646	500 – 1000	226.8 – 453.5							

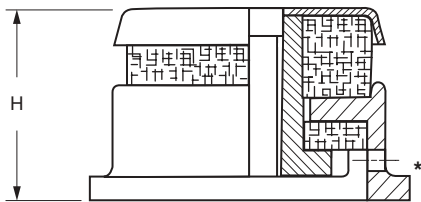
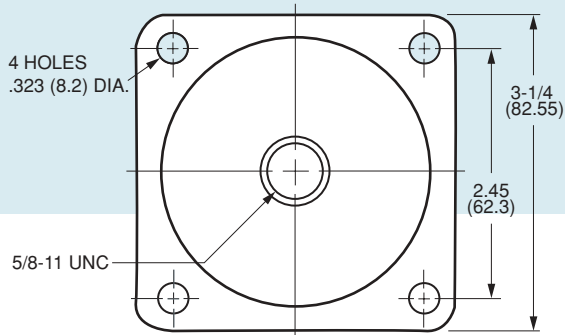
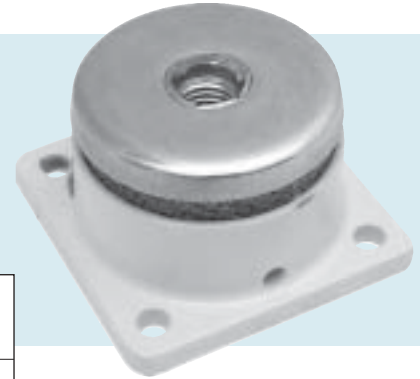


# Steel Mesh Mounts – To 1600 lbs.

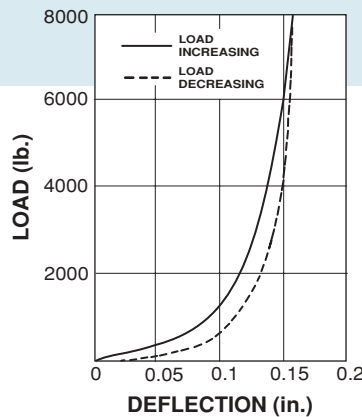
www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL: Housing** – Machine Casting  
Center, Cup and Washer are  
Cadmium Plated Mild Steel
- Isolator** – Stainless Steel Mesh

- **CORROSIVE ENVIRONMENT • STAINLESS STEEL MESH**
- **FOR LOADS OF 70 TO 1600 POUNDS (32 TO 725 kgf)**



**NOTE:** Dimensions in ( ) are mm.



## APPLICATIONS

Primarily developed for heavy-duty applications where severe shock forces are encountered, these mounts are especially recommended for vehicle and marine installations where there are high starting torques or reversals of loads. They are capable of withstanding compression loads as high as ten times the static loads and are used for isolating marine fans, mobile engines, generators, instrument consoles and general machine tools such as lathes, milling machines, sloters, broachers, etc.

**TEMPERATURE RANGE:** -94°F to +347°F (-70°C to +175°C)

Catalog Number	Static Load		Natural Frequency Hz	H - Height	
	lb.	kgf		Free	Loaded
V10Z27-3021	70 – 400	32 – 181	14 – 22	1-61/64 (49.68)	1-53/64 (46.38)
V10Z27-3022	300 – 800	136 – 363			
V10Z27-3023	600 – 1600	273 – 725			

\*A locking device is provided for the removal of rusted mounting bolts.

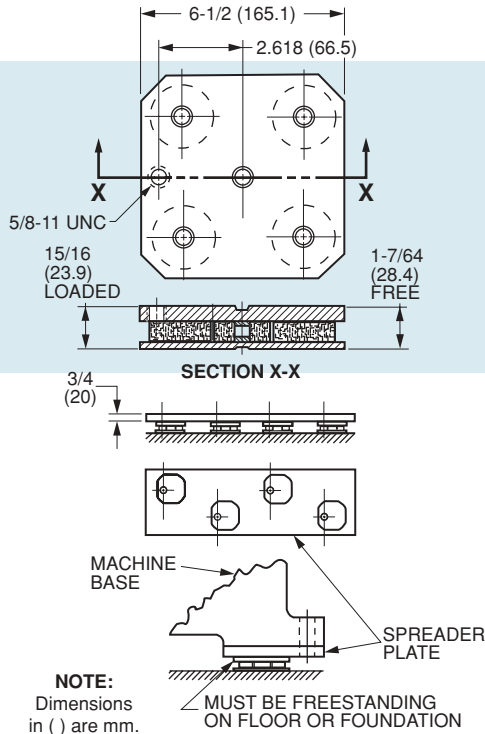


# Steel Mesh Mounts – To 20000 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Mounting Plates – Mild Steel, Painted  
Isolators – Knitted Stainless Steel Mesh

- **FOR COMPRESSION LOADS OF 1000 TO 20000 POUNDS (450 TO 9070 kgf)**
- **FREESTANDING • CORROSIVE ENVIRONMENT**



## APPLICATIONS

- DESIGNED PRINCIPALLY FOR HEAVY-DUTY PUNCH AND PANEL PRESSES
- LARGE MACHINE TOOLS
- ROCK CRUSHERS

## FLOOR MOUNTING

To support heavy loads, the mounts are grouped together on a spreader plate. The spreader plate should be made the same size as the floor bearing area of the base. Fasten the mounts to the spreader plate by the 5/8 tapped hole provided, then fasten the spreader to the machine base.

## EXAMPLE:

Total Weight of Machine = 65 TONS  $\frac{\text{Machine Weight}}{\text{Capacity of Mount}} = \frac{65}{9} = 7.22$  (use 8 mounts)

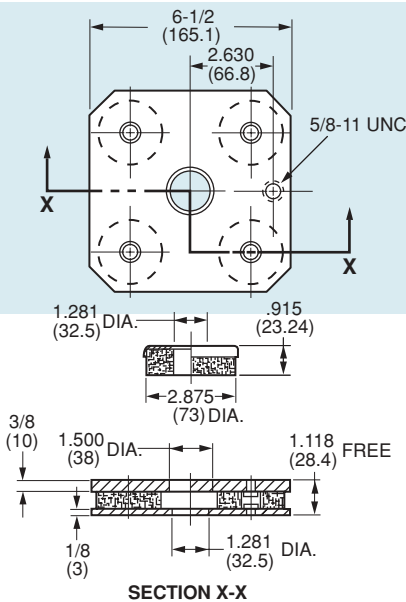
Catalog Number	Static Load Range	
	lb.	kgf
V10Z33-1133	1000 – 20000	450 – 9070
V10Z33-1133-2	2000 – 5000	905 – 2265
V10Z33-1133-4	10000 – 20000	4530 – 9070



# Steel Mesh Mounts – To 16000 lbs.

- **MATERIAL:** Mounting Plates – Mild Steel, Painted  
Isolators – Knitted Stainless Steel Mesh

- **FOR COMPRESSION LOADS OF 800 TO 16000 POUNDS (360 TO 7250 kgf)**
- **FLOOR MOUNTED • CORROSIVE ENVIRONMENT**

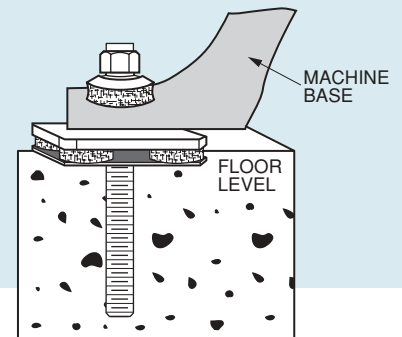


## APPLICATIONS

Designed for heavy machine tools, this low profile mount serves the dual purpose of effectively isolating machine vibration while preventing movement by holding firmly on its base.

## FLOOR MOUNTING

It is important that the stud is firmly fixed into the floor before the machine is bolted down. In the illustration, Rawbolt "studding" has been used, but foundation anchoring hardware is not provided with the mount. For use on level surfaces only. Use 1.0 (24) maximum diameter fixing studs.



Catalog Number*	Static Load Range	
	lb.	kgf
V10Z34-1139	800 – 16000	360 – 7250

\*To be discontinued when present stock is depleted.

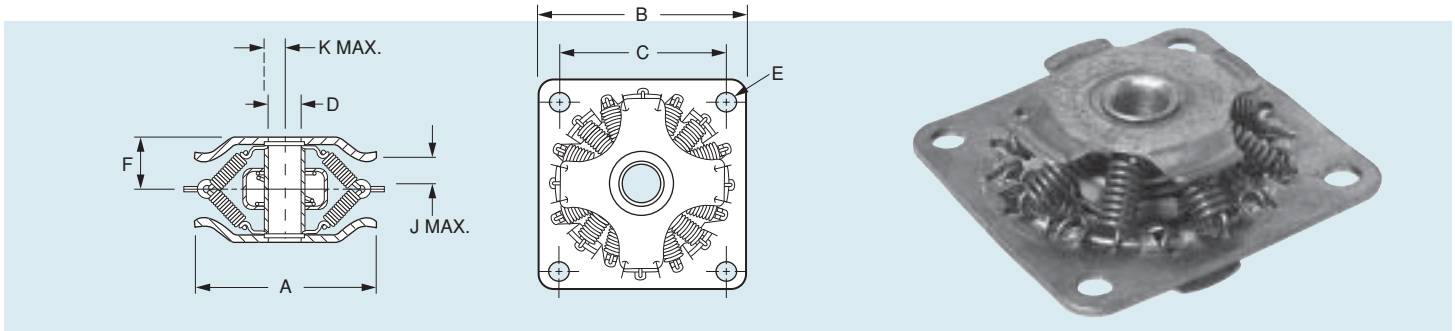


# Spring Mounts – Suspension Type

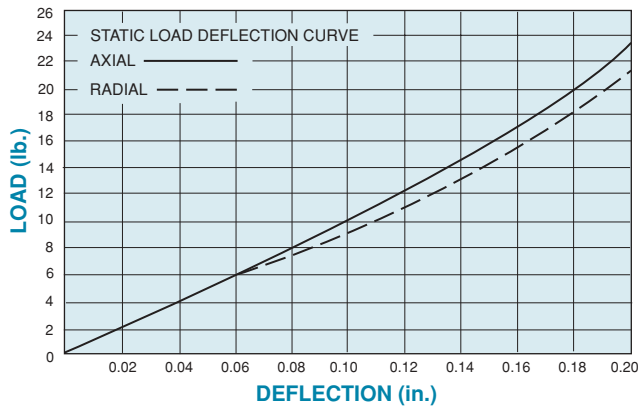
www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Mounting Plates – Steel, Cadmium Plated  
Springs – Spring Steel Wire

• **ALL METAL**



J Designates vertical displacement  
K Designates radial displacement



TEMPERATURE RANGE: -76°F to +302°F  
-60°C to +150°C

Catalog Number	Nominal Load		Weight		Dimensions					
	lb.	kgf	oz.	kg		in.	mm		in.	mm
<b>LIGHT-DUTY</b>										
V10C16-LS197501	1	0.45			A	7/8	22.23	E	.14	3.56
V10C16-LS197602	2	0.91	.38	0.011	B	1-1/4	31.75	F	9/32	7.14
V10C16-LS197703	3	1.36			C	1	25.4	J	5/32	3.97
V10C16-LS203704	4	1.81			D	.17	4.22	K	1/8	3.18
<b>MEDIUM-DUTY</b>										
V10C16-MS197802	2	0.91								
V10C16-MS197904	4	1.81			A	1-1/4	31.75	E	.17	4.22
V10C16-MS198006	6	2.72	1.14	0.033	B	1-25/32	45.25	F	23/64	9.13
V10C16-MS198108	8	3.63			C	1-3/8	34.93	J	3/16	4.76
V10C16-MS198210	10	4.54			D	.26	6.53	K	3/16	4.76
V10C16-MS198312	12	5.44								
V10C16-MS371114	14	6.35								
<b>HEAVY-DUTY</b>										
V10C16-HS198410	10	4.54								
V10C16-HS198515	15	6.80			A	1-3/4	44.45	E	.2	4.98
V10C16-HS198620	20	9.07	3.01	0.086	B	2-5/16	54.77	F	17/32	13.5
V10C16-HS198725	25	11.34			C	1-3/4	44.45	J	1/4	6.35
V10C16-HS198830	30	13.61			D	.39	9.93	K	3/16	4.76
V10C16-HS198935	35	15.88								

**NOTE:** Curves shown for mounts with a nominal load rating of 6 pounds.

Deflection curve for mounts with other load ratings may be drawn by shifting the curve shown to pass through a point defined by the intersection of the mounts nominal load (pounds) with a standard deflection of .06 inches.



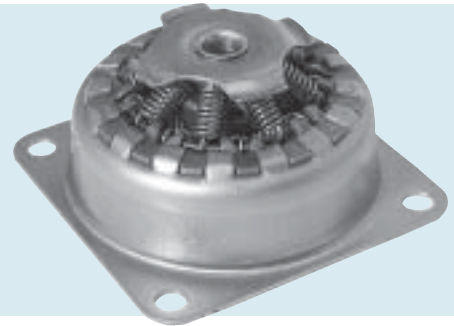
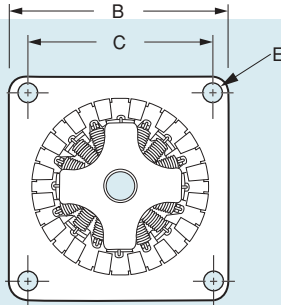
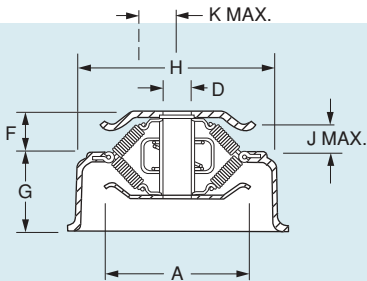


# Spring Mounts – Pedestal Type

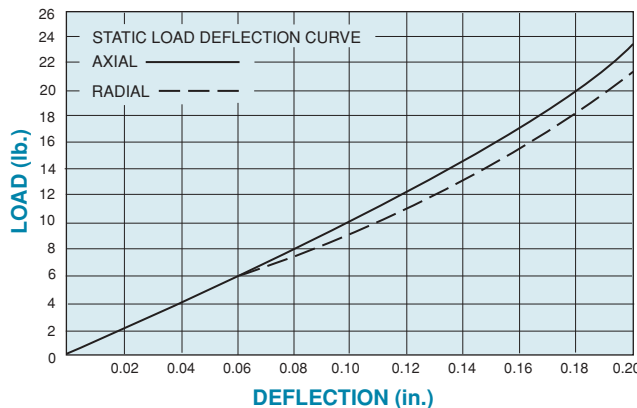
www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- MATERIAL: Mounting Plates – Steel, Cadmium Plated  
Springs – Spring Steel Wire

- ALL METAL



J Designates vertical displacement  
K Designates radial displacement



TEMPERATURE RANGE: -76°F to +302°F  
-60°C to +150°C

Catalog Number	Nominal Load		Weight		Dimensions					
	lb.	kgf	oz.	kg		in.	mm		in.	mm
<b>LIGHT-DUTY</b>										
V10C17-LP199301	1	0.45			A	7/8	22.23	F	15/64	5.95
V10C17-LP199402	2	0.91			B	1-11/16	42.85	G	9/16	14.29
V10C17-LP199503	3	1.36	.71	0.021	C	1-3/8	34.93	H	1-9/16	39.67
V10C17-LP199604	4	1.81			D	.170	4.22	J	5/32	3.97
					E	.150	3.73	K	1/8	3.18
<b>MEDIUM-DUTY</b>										
V10C17-MP199702	2	0.91			A	1-1/4	31.75	F	21/64	8.33
V10C17-MP199804	4	1.81			B	2-3/8	60.33	G	13/16	20.64
V10C17-MP199906	6	2.72			C	1-15/16	49.20	H	2-25/32	70.64
V10C17-MP235008	8	3.63	2.05	0.061	D	.257	6.53	J	3/16	4.76
V10C17-MP235110	10	4.54			E	.196	4.98	K	3/16	4.76
V10C17-MP235212	12	5.44								
V10C17-MP370914	14	6.35								
<b>HEAVY-DUTY</b>										
V10C17-HP235310	10	4.54			A	1-3/4	44.45	F	31/64	12.30
V10C17-HP235415	15	6.80			B	3.0	76.20	G	1-3/32	29.37
V10C17-HP235520	20	9.07			C	2-1/2	63.5	H	2-3/4	69.85
V10C17-HP235625	25	11.34	3.01	0.138	D	.39	9.93	J	1/4	6.35
V10C17-HP235730	30	13.61			E	.26	6.53	K	3/16	4.76
V10C17-HP371035	35	15.88								

NOTE: Curves shown for mounts with a nominal load rating of 6 pounds.

Deflection curve for mounts with other load ratings may be drawn by shifting the curve shown to pass through a point defined by the intersection of the mounts nominal load (pounds) with a standard deflection of .06 inches.

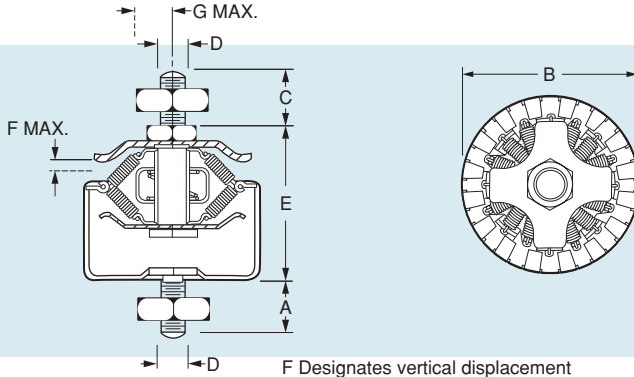


# Spring Mounts – Single Hole Type

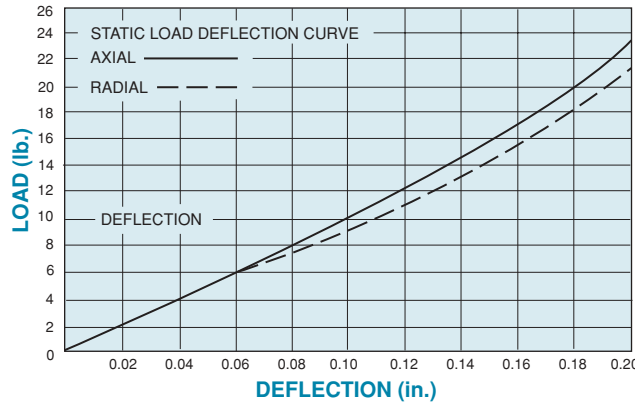
www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Mounting Plates – Steel, Cadmium Plated  
Springs – Spring Steel Wire

• **ALL METAL**



F Designates vertical displacement  
G Designates radial displacement



TEMPERATURE RANGE: -76°F to +302°F  
-60°C to +150°C

Catalog Number	Nominal Load		Weight		Dimensions									
	lb.	kgf	oz.	kg		in.	mm		in.	mm				
<b>LIGHT-DUTY</b>														
V10C18-LF237001	1	0.45	.93	0.026	A	3/8	9.53	E	1-3/32	27.78				
V10C18-LF237102	2	0.91			B	1-19/64	32.94		F	5/32	3.97			
V10C18-LF237203	3	1.36			C	3/8	9.53		G	1/8	3.18			
V10C18-LF237304	4	1.81			D	#4 BA	4							
<b>MEDIUM-DUTY</b>														
V10C18-MF237402	2	0.91	2.71	0.076	A	1/2	12.7	E	1-21/64	33.73				
V10C18-MF237504	4	1.81			B	1-7/8	47.63				F	3/16	4.76	
V10C18-MF237606	6	2.72			C	1/2	12.7				G	3/16	4.76	
V10C18-MF237708	8	3.63			D	#1/4 BSF	6							
V10C18-MF237810	10	4.54												
V10C18-MF237912	12	5.44												
<b>HEAVY-DUTY</b>														
V10C18-HF238210	10	4.54	6.47	0.182	A	11/16	17.46	E	1-51/64	45.64				
V10C18-HF238315	15	6.80				B	2-9/16				61.91	F	1/4	6.35
V10C18-HF238420	20	9.07				C	27/32				21.43	G	3/16	4.76
V10C18-HF238525	25	11.34				D	#3/8 BSF				10			
V10C18-HF238630	30	13.61												
V10C18-HF371235	35	15.88												

**NOTE:** Curves shown for mounts with a nominal load rating of 6 pounds (2.7 kgf).

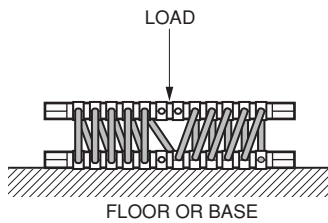
Deflection curve for mounts with other load ratings may be drawn by shifting the curve shown to pass through a point defined by the intersection of the mounts nominal load (pounds) with a standard deflection of .06 inches (1.5 mm).



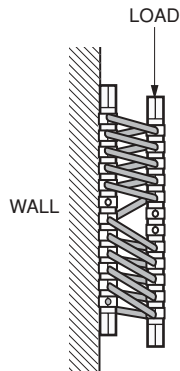
# Cable Isolators

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

**COMPRESSION**



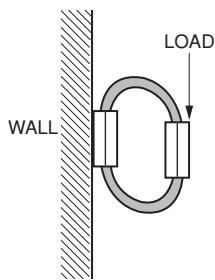
**SHEAR**



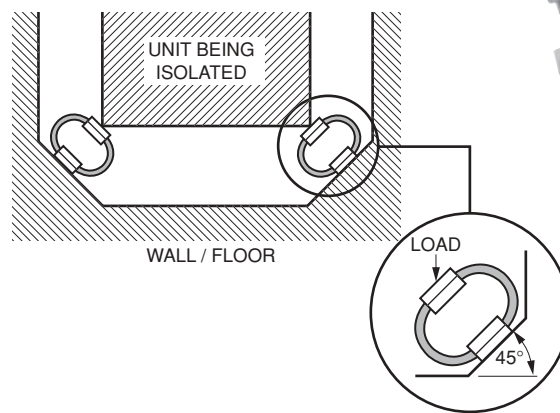
**New**



**ROLL**



**45° COMPRESSION & ROLL**



**GENERAL CHARACTERISTICS AND USES**

Applications	Typical Equipment	Protection From	Operational Advantages
Shipboard	Electronics, Computers, Machinery	Explosive blast, Inherent vibration, Storms	Long life, Maintenance-free, Temperature extremes, Corrosion resistance, All axes protection
Rough Terrain Vehicles	Instrumentation, Generators, Electronics	Rough terrain, Poor road conditions, Collision	Long life, Maintenance-free, Temperature extremes, Ozone, Radioactivity, UV Radiation
Aircraft	Electronics, Computers	High-G maneuvering, Hard landings, Turbulent air	Temperature and altitude extremes, Lightweight
Shipping Containers	Optics, Instruments, Missiles, Electronics	Transit, Handling drop, Loading/Unloading	Long life, Maintenance-free, Exposure to moisture, Repeated use
Industrial Equipment	Centrifuge, Dryers, Pumps	Unbalanced dynamic loads, Fluid hammer, Inherent vibration, Foundation weakness	Long life, Maintenance-free, Corrosive environments
Ordnance Equipment	Missile launchers, Tank artillery, Computer controls, Electronics	Rough terrain, Railroad humping, Transit	Maintenance-free, Temperature extremes, Nearby blast
Medical Equipment	Mechanical equipment necessary for patient care	Vibration from moving parts, Mobile carts-Transport shock	Maintenance-free, No outgassing, Can be sterilized
Chimneys	Chimneys, Scrubbers, Measuring devices	Wind causing resonant frequencies, Stack gas causing turbulence near scrubber, etc.	Maintenance-free, Temperature extremes, Corrosive environments



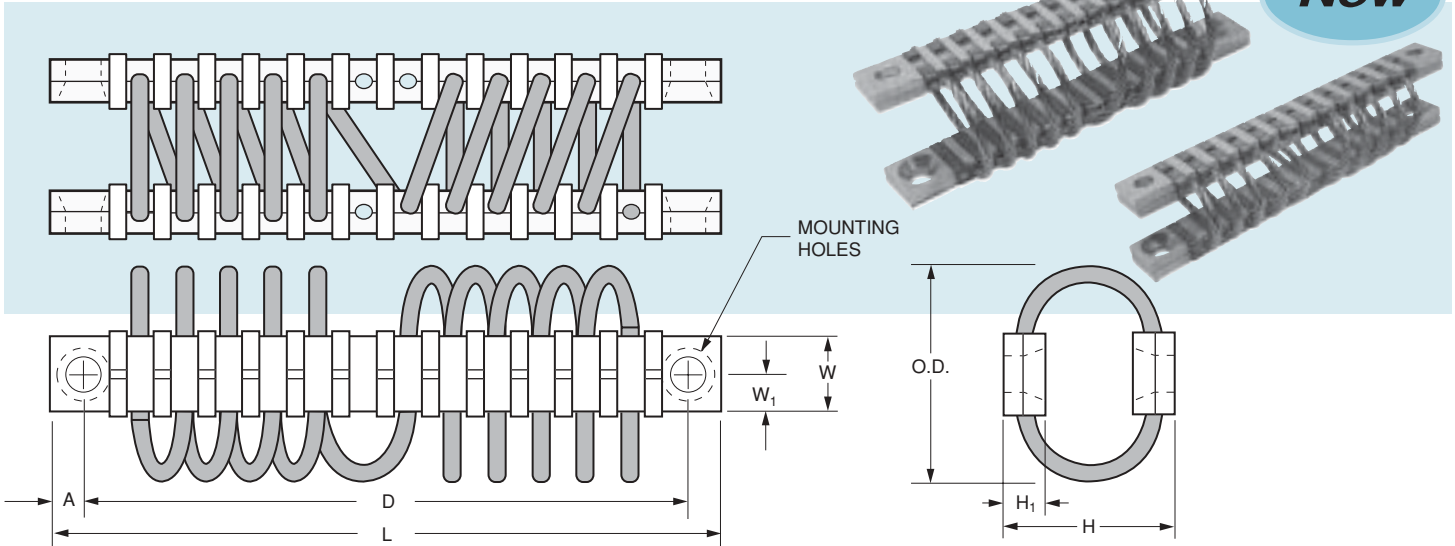
# Cable Isolators – 1/16" & 3/32" Cable Dia.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Cable – Stainless Steel (MIL-W-83420)  
Retaining Bars – Aluminum Alloy  
6061-T6; Iridited (MIL-C-5541)  
Retaining Clips – Stainless Steel

- ISOLATION PROTECTION IN ALL AXES
- RESISTS CORROSION • MAINTENANCE-FREE

**New**



## 1/16 Diameter Cable

Catalog Number	O.D.	H	H <sub>1</sub>	L	D	A	W	W <sub>1</sub>	Mounting Holes	Compression		Shear or Roll		45° Compression & Roll	
										Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.
V10Z70-0625100	1.0 (25.4)	.7 (17.8)							.177 (4.3) Hole Countersink .31 (7.9) to 82 deg. (4x)	99 (1.77)	.3 (7.6)	69 (1.23)	.3 (7.6)	37 (0.66)	.6 (15.2)
V10Z70-0625110	1.1 (27.9)	.8 (20.3)						65 (1.16)		.4 (10.2)	54 (0.96)	.4 (10.2)	23 (0.41)	.7 (17.8)	
V10Z70-0625120	1.2 (30.5)	1.0 (25.4)	.16 (4.1)	3.12 (79.2)	2.69 (68.3)	.20 (5.1)	.40 (10.2)	.20 (5.1)		36 (0.64)	.5 (12.7)	48 (0.86)	.6 (15.2)	11 (0.20)	.8 (20.3)
V10Z70-0625130	1.3 (33)	1.1 (27.9)								25 (0.45)	.6 (15.2)	32 (0.57)	.7 (17.8)	8 (0.14)	.9 (22.9)
V10Z70-0625140	1.4 (35.6)	1.2 (30.5)								18 (0.32)	.7 (17.8)	24 (0.43)	.8 (20.3)	5 (0.09)	1.0 (25.4)
V10Z70-0625150	1.5 (38.1)	1.3 (33)								14 (0.25)	.8 (20.3)	21 (0.38)	.9 (22.9)	4 (0.07)	1.1 (27.9)

## 3/32 Diameter Cable

Catalog Number	O.D.	H	H <sub>1</sub>	L	D	A	W	W <sub>1</sub>	Mounting Holes	Compression		Shear or Roll		45° Compression & Roll	
										Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.
V10Z70-0938110	1.1 (27.9)	.9 (22.9)							.196 (5) Hole Countersink .41 (10.4) to 82 deg. (4x)	377 (6.73)	.2 (5.1)	177 (3.16)	.3 (7.6)	82 (1.46)	.5 (12.7)
V10Z70-0938120	1.2 (30.5)	1.0 (25.4)								233 (4.16)	.3 (7.6)	136 (2.43)	.4 (10.2)	75 (1.34)	.6 (15.2)
V10Z70-0938130	1.3 (33)	1.1 (27.9)	.25 (6.4)	4.44 (112.8)	3.95 (100.3)	.24 (6.1)	.50 (12.7)	.25 (6.4)		146 (2.61)	.4 (10.2)	84 (1.50)	.5 (12.7)	49 (0.88)	.7 (17.8)
V10Z70-0938150	1.5 (38.1)	1.3 (33)								85 (1.52)	.5 (12.7)	51 (0.91)	.6 (15.2)	24 (0.43)	1.1 (27.9)
V10Z70-0938160	1.6 (40.6)	1.4 (35.6)								61 (1.09)	.6 (15.2)	38 (0.68)	.7 (17.8)	17 (0.3)	1.2 (30.5)
V10Z70-0938170	1.7 (43.2)	1.5 (38.1)								48 (0.86)	.7 (17.8)	32 (0.57)	.8 (20.3)	14 (0.25)	1.3 (33)

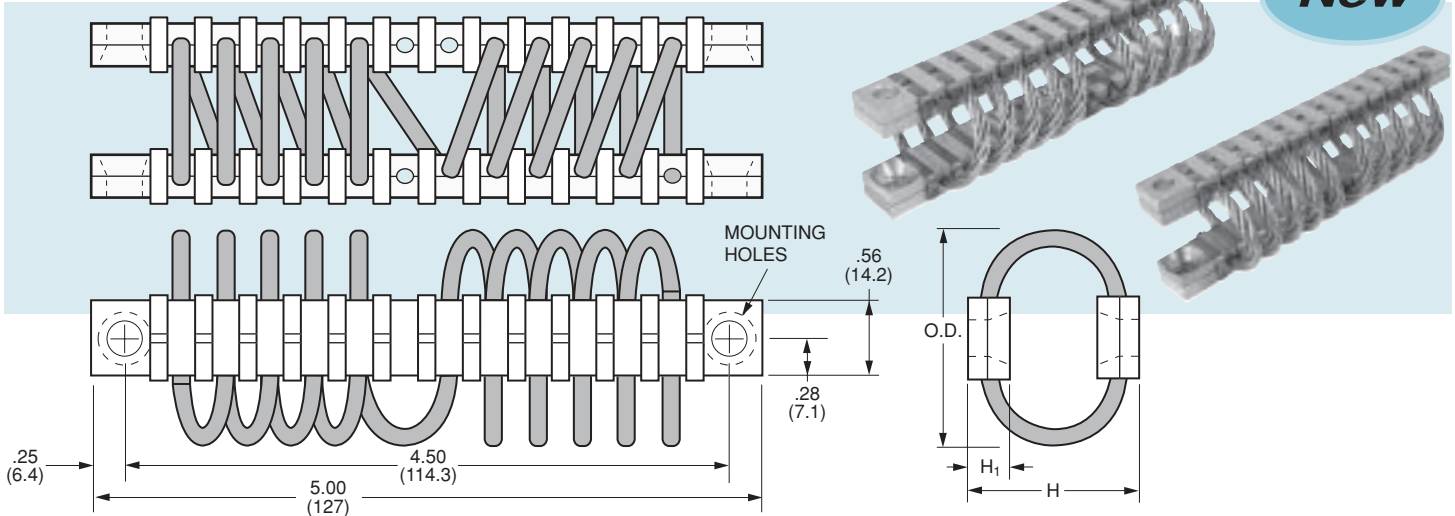


# Cable Isolators – 1/8" & 5/32" Cable Dia.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Cable – Stainless Steel (MIL-W-83420)  
Retaining Bars – Aluminum Alloy  
6061-T6; Iridited (MIL-C-5541)  
Retaining Clips – Stainless Steel

- ISOLATION PROTECTION IN ALL AXES
- RESISTS CORROSION • MAINTENANCE-FREE



## 1/8 Diameter Cable

Catalog Number	O.D.	H	H <sub>1</sub>	Mounting Holes	Compression		Shear or Roll		45° Compression & Roll	
					Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.
V10Z70-1250140	1.4 (35.6)	1.1 (27.9)	.31 (7.9)	.257 (6.5) Hole Countersink .52 (13.2) to 82 deg. (4x)	696 (12.43)	.2 (5.1)	335 (5.98)	.4 (10.2)	162 (2.89)	.9 (22.9)
V10Z70-1250150	1.5 (38.1)	1.2 (30.5)			450 (8.04)	.4 (10.2)	263 (4.7)	.5 (12.7)	130 (2.32)	1.0 (25.4)
V10Z70-1250160	1.6 (40.6)	1.3 (33)			290 (5.18)	.5 (12.7)	181 (3.23)	.6 (15.2)	98 (1.75)	1.1 (27.9)
V10Z70-1250170	1.7 (43.2)	1.4 (35.6)			215 (3.84)	.6 (15.2)	146 (2.61)	.7 (17.8)	75 (1.34)	1.2 (30.5)
V10Z70-1250180	1.8 (45.7)	1.5 (38.1)			170 (3.04)	.7 (17.8)	129 (2.3)	.8 (20.3)	56 (1)	1.3 (33)
V10Z70-1250190	1.9 (48.3)	1.6 (40.6)			135 (2.41)	.8 (20.3)	125 (2.23)	.9 (22.9)	44 (0.79)	1.5 (38.1)
V10Z70-1250210	2.1 (53.3)	1.8 (45.7)			82 (1.46)	1.0 (25.4)	75 (1.34)	1.1 (27.9)	28 (0.5)	1.7 (43.2)
V10Z70-1250230	2.3 (58.4)	2.0 (50.8)			61 (1.09)	1.2 (30.5)	67 (1.2)	1.3 (33)	20 (0.36)	1.9 (48.3)

## 5/32 Diameter Cable

Catalog Number	O.D.	H	H <sub>1</sub>	Mounting Holes	Compression		Shear or Roll		45° Compression & Roll	
					Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.
V10Z70-1563160	1.6 (40.6)	1.2 (30.5)	.38 (9.7)	.257 (6.5) Hole Countersink .52 (13.2) to 82 deg. (4x)	767 (13.7)	.4 (10.2)	377 (6.73)	.5 (12.7)	264 (4.71)	.7 (17.8)
V10Z70-1563170	1.7 (43.2)	1.3 (33)			543 (9.7)	.5 (12.7)	295 (5.27)	.6 (15.2)	179 (3.2)	.8 (20.3)
V10Z70-1563190	1.9 (48.3)	1.5 (38.1)			329 (5.88)	.7 (17.8)	210 (3.75)	.8 (20.3)	114 (2.04)	1.1 (27.9)
V10Z70-1563210	2.1 (53.3)	1.8 (45.7)			196 (3.5)	.9 (22.9)	149 (2.66)	1.1 (27.9)	67 (1.2)	1.4 (35.6)
V10Z70-1563230	2.3 (58.4)	2.0 (50.8)			133 (2.38)	1.0 (25.4)	131 (2.34)	1.3 (33)	45 (0.8)	1.6 (40.6)
V10Z70-1563250	2.5 (63.5)	2.2 (55.9)			97 (1.73)	1.2 (30.5)	86 (1.54)	1.5 (38.1)	30 (0.54)	1.8 (45.7)

NOTE: Dimensions in ( ) are mm.

Special mounting configurations, load ratings, materials and finishes are available on special order. Please contact our Engineering Department for more information.



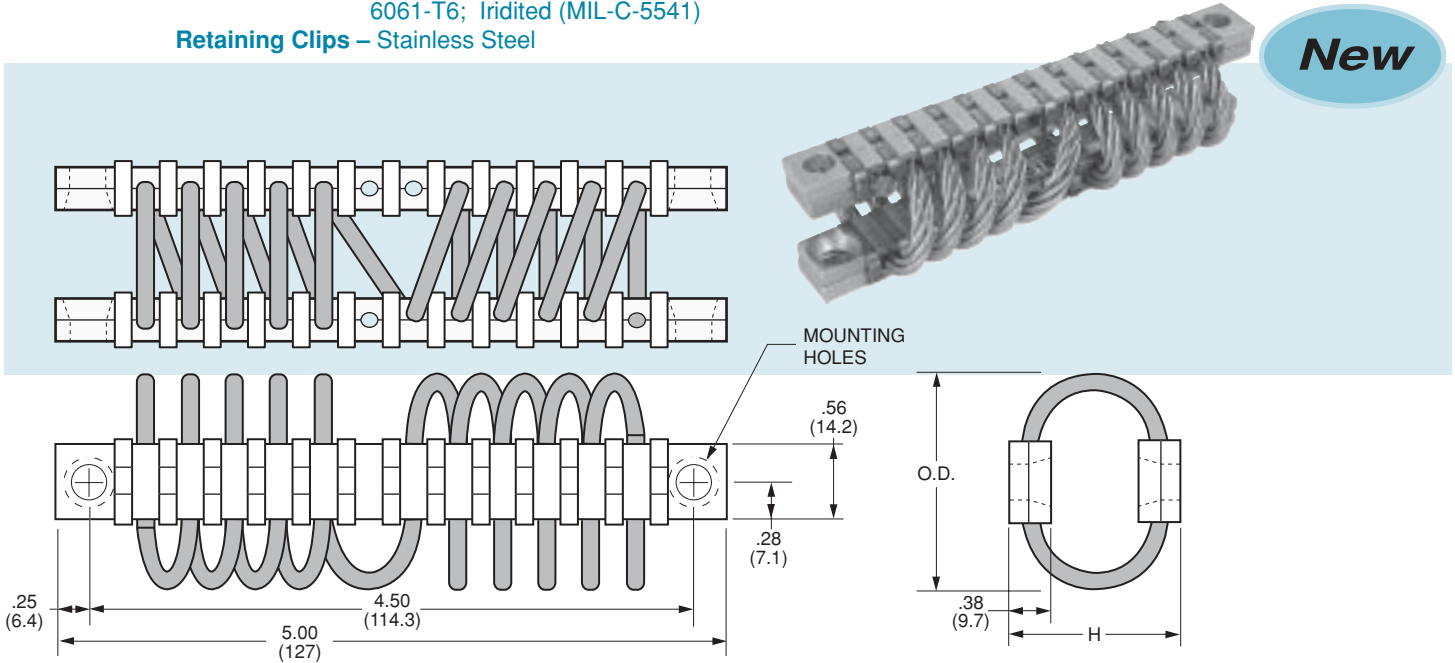
# Cable Isolators – 3/16" Cable Dia.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Cable – Stainless Steel (MIL-W-83420)  
Retaining Bars – Aluminum Alloy  
6061-T6; Iridited (MIL-C-5541)  
Retaining Clips – Stainless Steel

- ISOLATION PROTECTION IN ALL AXES
- RESISTS CORROSION • MAINTENANCE-FREE

**New**



## 3/16 Diameter Cable - Standard Duty

Catalog Number	O.D.	H	Mounting Holes	Compression		Shear or Roll		45° Compression & Roll	
				Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.
V10Z70-1875140	1.4 (35.6)	1.2 (30.5)	.257 (6.5) Hole Countersink .52 (13.2) to 82 deg. (4x)	1891 (33.77)	.3 (7.6)	913 (16.3)	.4 (10.2)	845 (15.09)	.4 (10.2)
V10Z70-1875150	1.5 (38.1)	1.3 (33)		1534 (27.39)	.3 (7.6)	710 (12.68)	.4 (10.2)	537 (9.59)	.6 (15.2)
V10Z70-1875160	1.6 (40.6)	1.4 (35.6)		1149 (20.52)	.4 (10.2)	558 (9.96)	.5 (12.7)	414 (7.39)	.7 (17.8)
V10Z70-1875170	1.7 (43.2)	1.5 (38.1)		811 (14.48)	.5 (12.7)	433 (7.73)	.5 (12.7)	280 (5)	.9 (22.9)
V10Z70-1875180	1.8 (45.7)	1.6 (40.6)		612 (10.93)	.7 (17.8)	340 (6.07)	.5 (12.7)	231 (4.13)	.9 (22.9)
V10Z70-1875190	1.9 (48.3)	1.7 (43.2)		492 (8.79)	.8 (20.3)	263 (4.7)	.6 (15.2)	204 (3.64)	1.0 (25.4)

NOTES: Dimensions in ( ) are mm.

Same cable diameter but additional sizes are available on the following page. Special mounting configurations, load ratings, materials and finishes are available on special order. Please contact our Engineering Department for more information.





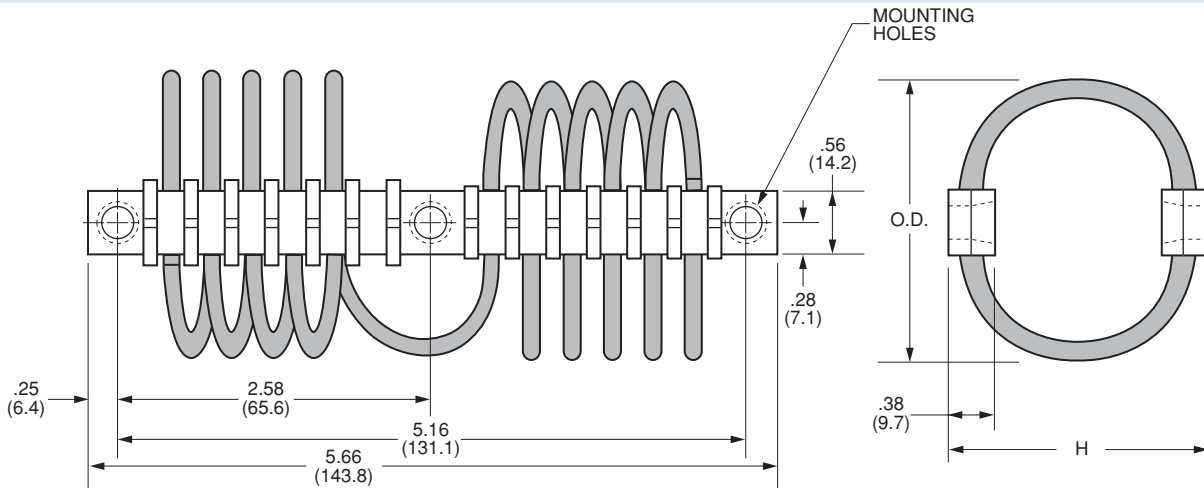
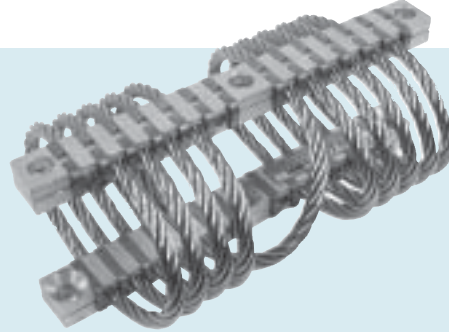
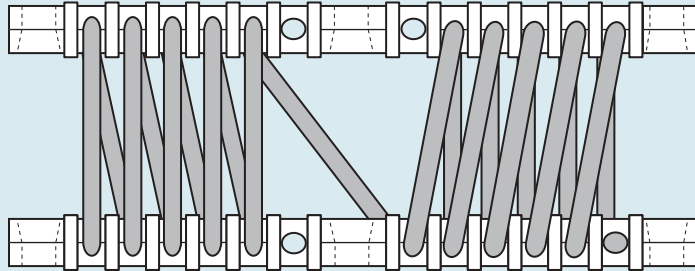
# Cable Isolators – 3/16" Cable Dia.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Cable – Stainless Steel (MIL-W-83420)  
Retaining Bars – Aluminum Alloy  
6061-T6; Iridited (MIL-C-5541)  
Retaining Clips – Stainless Steel

- ISOLATION PROTECTION IN ALL AXES
- RESISTS CORROSION • MAINTENANCE-FREE

**New**



## 3/16 Diameter Cable – Light-Duty

Catalog Number	O.D.	H	Mounting Holes	Compression		Shear or Roll		45° Compression & Roll	
				Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.
V10Z70-1875228	2.28 (57.9)	2.00 (50.8)	.28 (7.1) Hole Countersink .53 (13.5) to 82 deg. (6x)	279 (4.98)	1.00 (25.4)	159 (2.84)	.8 (20.3)	94 (1.68)	1.90 (48.3)
V10Z70-1875250	2.50 (63.5)	2.06 (52.3)		227 (4.05)	1.05 (26.7)	131 (2.34)	1.1 (27.9)	72 (1.29)	2.20 (55.9)
V10Z70-1875294	2.94 (74.7)	2.13 (54.1)		155 (2.77)	1.10 (27.9)	95 (1.7)	1.3 (33)	57 (1.02)	2.50 (63.5)
V10Z70-1875319	3.19 (81)	2.19 (55.6)		129 (2.3)	1.20 (30.5)	77 (1.38)	1.8 (45.7)	54 (0.96)	2.65 (67.3)
V10Z70-1875345	3.45 (87.6)	2.45 (62.2)		82 (1.46)	1.40 (35.6)	58 (1.04)	1.9 (48.3)	36 (0.64)	2.75 (69.9)
V10Z70-1875420	4.20 (106.7)	3.20 (81.3)		39 (0.7)	2.00 (50.8)	31 (0.55)	2.1 (53.3)	18 (0.32)	3.20 (81.3)

NOTES: Dimensions in ( ) are mm.

Same cable diameter but additional sizes are available on the previous page. Special mounting configurations, load ratings, materials and finishes are available on special order. Please contact our Engineering Department for more information.



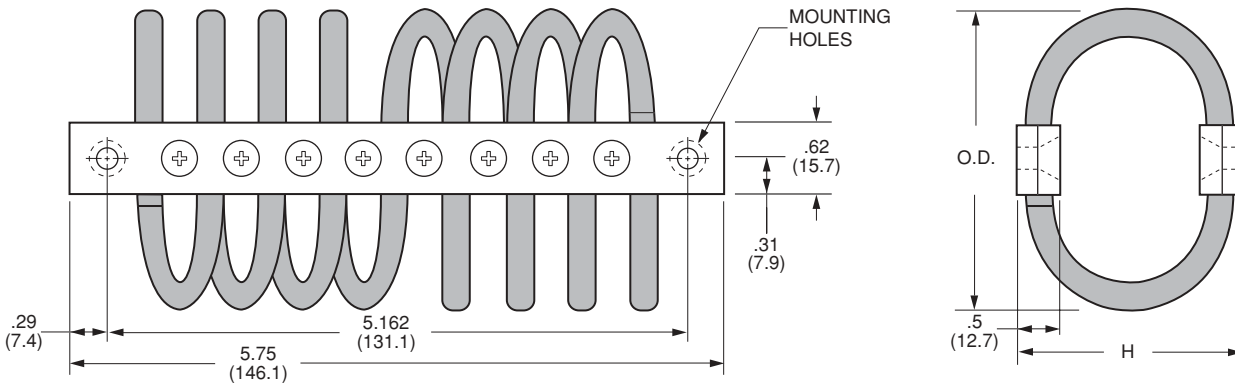
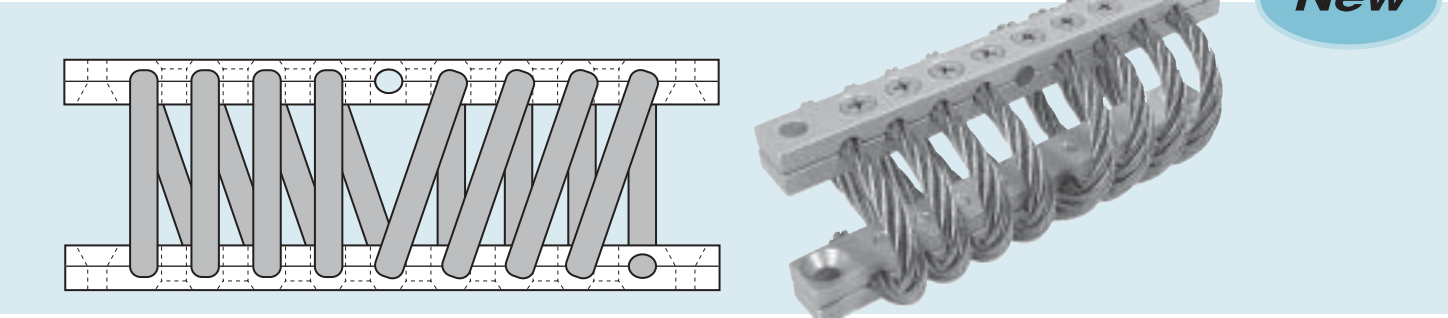
# Cable Isolators – 1/4" Cable Dia.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Cable – Stainless Steel (MIL-W-83420)  
Retaining Bars – Aluminum Alloy  
6061-T6; Iridited (MIL-C-5541)  
Retaining Screws – Stainless Steel

- ISOLATION PROTECTION IN ALL AXES
- RESISTS CORROSION • MAINTENANCE-FREE

**New**



## 1/4 Diameter Cable

Catalog Number	O.D.	H	Mounting Holes	Compression		Shear or Roll		45° Compression & Roll	
				Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.
V10Z70-2500220	2.20 (55.9)	1.90 (48.3)	.28 (7.1) Hole Countersink .53 (13.5) to 82 deg. (4x)	1033 (18.45)	.6 (15.2)	516 (9.21)	.8 (20.3)	300 (5.36)	1.5 (38.1)
V10Z70-2500250	2.50 (63.5)	2.13 (54.1)		623 (11.13)	.8 (20.3)	323 (5.77)	1.0 (25.4)	182 (3.25)	1.8 (45.7)
V10Z70-2500280	2.80 (71.1)	2.31 (58.7)		423 (7.55)	1.0 (25.4)	277 (4.95)	1.3 (33)	122 (2.18)	2.2 (55.9)
V10Z70-2500313	3.13 (79.5)	2.50 (63.5)		304 (5.43)	1.1 (27.9)	192 (3.43)	1.6 (40.6)	96 (1.71)	2.3 (58.4)
V10Z70-2500350	3.50 (88.9)	2.50 (63.5)		234 (4.18)	1.3 (33)	174 (3.11)	1.7 (43.2)	92 (1.64)	2.5 (63.5)
V10Z70-2500375	3.75 (95.3)	2.63 (66.8)		181 (3.23)	1.5 (38.1)	124 (2.21)	1.9 (48.3)	76 (1.36)	2.7 (68.6)
V10Z70-2500395	3.95 (100.3)	2.63 (66.8)		159 (2.84)	1.5 (38.1)	110 (1.96)	2.0 (50.8)	75 (1.34)	2.8 (71.1)
V10Z70-2500425	4.25 (108)	3.25 (82.6)		100 (1.79)	2.0 (50.8)	67 (1.2)	2.2 (55.9)	39 (0.7)	3.0 (76.2)

**NOTE:** Dimensions in ( ) are mm.  
Special mounting configurations, load ratings, materials and finishes are available on special order. Please contact our Engineering Department for more information.



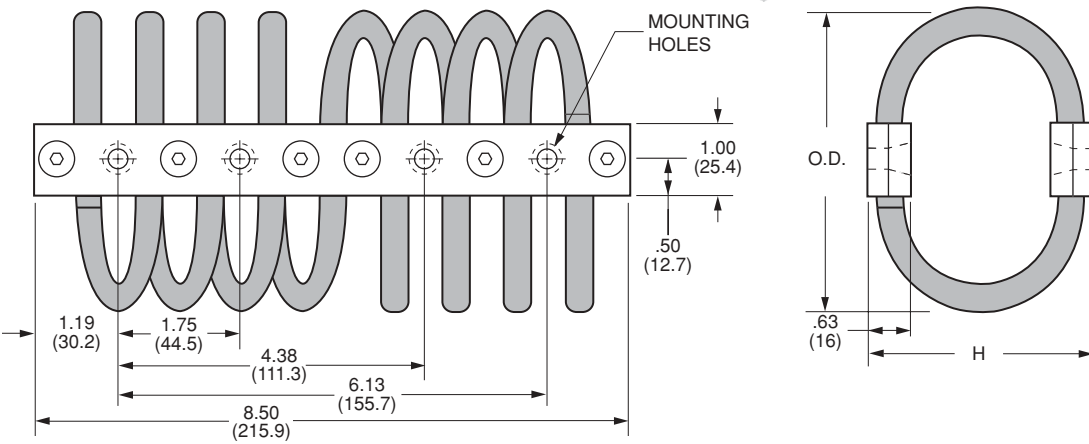
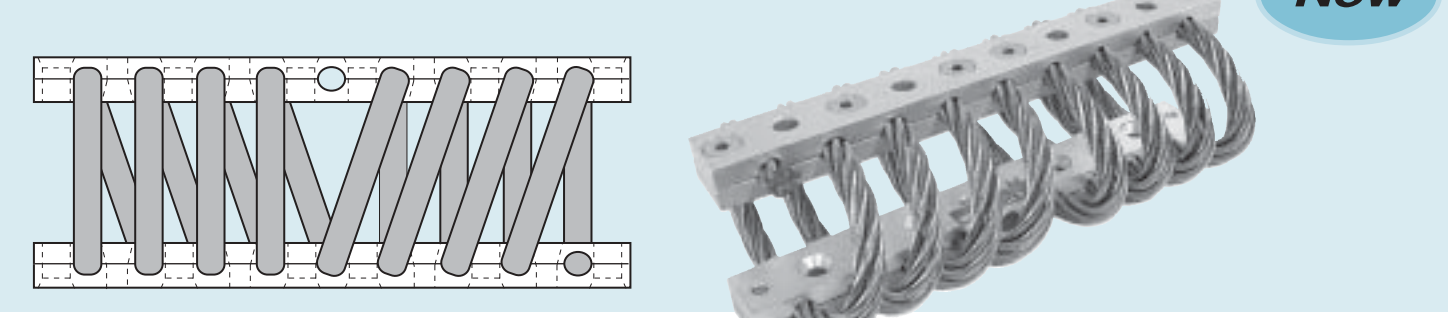
# Cable Isolators – 3/8" Cable Dia.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Cable – Stainless Steel (MIL-W-83420)  
Retaining Bars – Aluminum Alloy  
6061-T6; Iridited (MIL-C-5541)  
Retaining Screws – Alloy Steel; Cadmium Plated (QQ-P-416)

- ISOLATION PROTECTION IN ALL AXES
- RESISTS CORROSION • MAINTENANCE-FREE

**New**



## 3/8 Diameter Cable

Catalog Number	O.D.	H	Mounting Holes	Compression		Shear or Roll		45° Compression & Roll	
				Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.
V10Z70-3750331	3.31 (84.1)	2.80 (71.1)	.28 (7.1) Hole Countersink .53 (13.5) to 82 deg. (8x)	1099 (19.63)	1.0 (25.4)	638 (11.39)	1.0 (25.4)	662 (11.82)	1.5 (38.1)
V10Z70-3750350	3.50 (88.9)	2.90 (73.7)		1017 (18.16)	1.1 (27.9)	454 (8.11)	1.1 (27.9)	442 (7.89)	2.0 (50.8)
V10Z70-3750413	4.13 (104.9)	3.00 (76.2)		734 (13.11)	1.3 (33)	385 (6.88)	1.5 (38.1)	357 (6.38)	2.3 (58.4)
V10Z70-3750425	4.25 (108)	3.25 (82.6)		598 (10.68)	1.5 (38.1)	313 (5.59)	1.6 (40.6)	212 (3.79)	2.8 (71.1)
V10Z70-3750450	4.50 (114.3)	3.50 (88.9)		447 (7.98)	1.7 (43.2)	236 (4.21)	1.7 (43.2)	167 (2.98)	3.5 (88.9)
V10Z70-3750475	4.75 (120.7)	4.13 (104.9)		319 (5.7)	2.0 (50.8)	179 (3.2)	2.0 (50.8)	100 (1.79)	4.0 (101.6)
V10Z70-3750550	5.50 (139.7)	4.25 (108)		228 (4.07)	2.2 (55.9)	135 (2.41)	2.2 (55.9)	89 (1.59)	4.5 (114.3)

**NOTE:** Dimensions in ( ) are mm.  
Special mounting configurations, load ratings, materials and finishes are available on special order. Please contact our Engineering Department for more information.



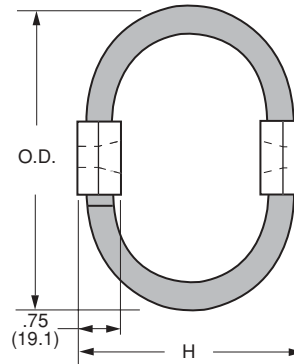
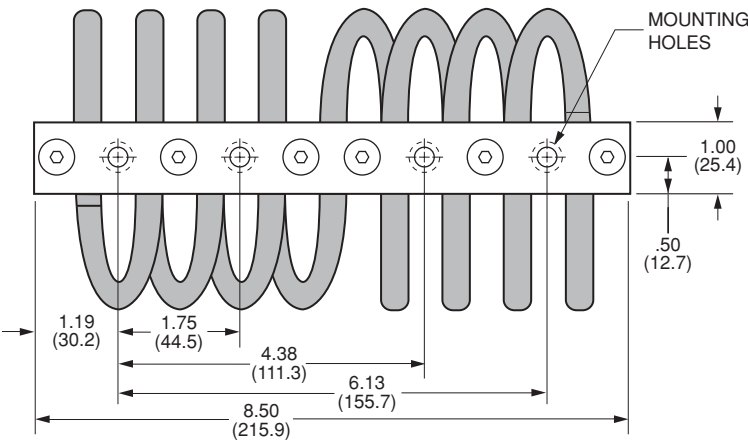
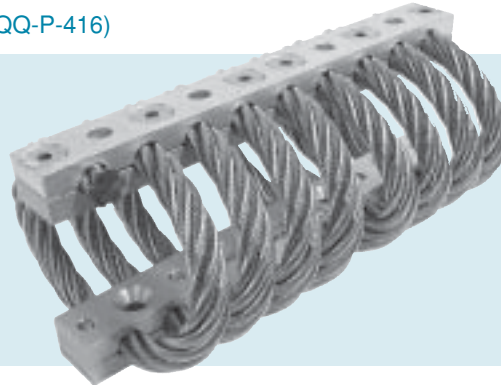
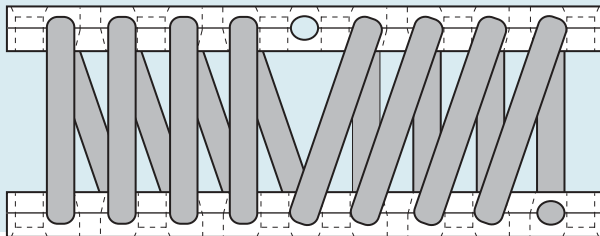
# Cable Isolators – 1/2" Cable Dia.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Cable – Stainless Steel (RR-W-410 D1)  
Retaining Bars – Aluminum Alloy  
6061-T6; Iridited (MIL-C-5541)  
Retaining Screws – Alloy Steel; Cadmium Plated (QQ-P-416)  
or Stainless Steel

- ISOLATION PROTECTION IN ALL AXES
- RESISTS CORROSION • MAINTENANCE-FREE

**New**



## 1/2 Diameter Cable

Catalog Number	O.D.	H	Mounting Holes	Compression		Shear or Roll		45° Compression & Roll	
				Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.	Spr. Rate lb./in. (kgf/mm)	Max. Deflect. in.
V10Z70-5000400	4.00 (101.6)	3.25 (82.6)	.328 (8.3) Hole Countersink .66 (16.8) to 82 deg. (8x)	1730 (30.89)	1.5 (38.1)	795 (14.2)	1.2 (30.5)	705 (12.59)	2.5 (63.5)
V10Z70-5000413	4.13 (104.9)	3.50 (88.9)		1492 (26.64)	1.6 (40.6)	674 (12.04)	1.3 (33)	604 (10.79)	2.7 (68.6)
V10Z70-5000475	4.75 (120.7)	3.75 (95.3)		1159 (20.7)	1.7 (43.2)	507 (9.05)	1.5 (38.1)	409 (7.3)	3.2 (81.3)
V10Z70-5000525	5.25 (133.4)	4.25 (108)		718 (12.82)	2.3 (58.4)	357 (6.38)	1.8 (45.7)	280 (5)	3.5 (88.9)
V10Z70-5000565	5.65 (143.5)	4.90 (124.5)		469 (8.38)	2.8 (71.7)	243 (4.34)	2.3 (58.4)	180 (3.21)	4.0 (101.6)
V10Z70-5000613	6.13 (155.7)	5.40 (137.2)		339 (6.05)	3.5 (88.9)	209 (3.73)	2.6 (66)	134 (2.39)	4.5 (114.3)
V10Z70-5000710	7.10 (180.3)	6.10 (154.9)		229 (4.09)	4.1 (104.1)	120 (2.14)	3.0 (76.2)	87 (1.55)	5.2 (132.1)

NOTE: Dimensions in ( ) are mm.

Special mounting configurations, load ratings, materials and finishes are available on special order. Please contact our Engineering Department for more information.



# Bumpers, Shock Absorbers & Channel Mounts



**SECTION 6**



# Bumper Technical Information

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

## ENERGY ABSORBING PRODUCTS

Within the family of antivibration products, we are introducing a line of ENERGY-ABSORBING PRODUCTS.

### GENERAL

In order to lend full understanding of the importance and capabilities of this product line, we will deal with the concept of ENERGY as well as present some practical examples of several applications. The examples will also include calculations of the forces involved.

Energy-absorbing components are often used as parts of a system or a device itself or, alternatively, they might be used as a safety measure to absorb runaway energy in case of failure of a component or a system. Some numerical examples are addressing both types of these applications.

### ENERGY

A body is said to possess energy if it has the ability to perform work. This ability can be the result of its position or its condition. The position of the body produces POTENTIAL ENERGY, whereas if the body is moving with some velocity it possesses energy of motion or KINETIC ENERGY.

The formulas governing energy are as follows:

#### Kinetic Energy of a body in translation

$$E = \frac{mV^2}{2} \dots\dots\dots \text{lb. in. or lb. ft.}$$

where m is mass:  $m = \frac{W}{g} \dots\dots\dots \text{lb. sec}^2/\text{in. or lb. sec}^2/\text{ft.}$

- V is velocity in in./sec or ft./sec
- W is weight in lb.
- g is acceleration of gravity 32.16 ft./sec<sup>2</sup> or 386 in./sec<sup>2</sup>

#### Kinetic Energy of a body in rotation

$$E = I_o \cdot \omega^2 \dots\dots\dots \text{lb. in. or lb. ft.}$$

where  $I_o$  is the mass moment of inertia about the axis of rotation in lb. in.sec<sup>2</sup> or lb. ft.sec<sup>2</sup>  
 $\omega$  is angular velocity in rad/sec or 1/sec

#### Potential Energy

$$E = W \cdot h \dots\dots\dots \text{lb. in. or lb. ft.}$$

where W is weight in lb.  
 h is height of free fall in in. or ft.  
 If the velocity at the end of the free fall is needed, it can be found from:

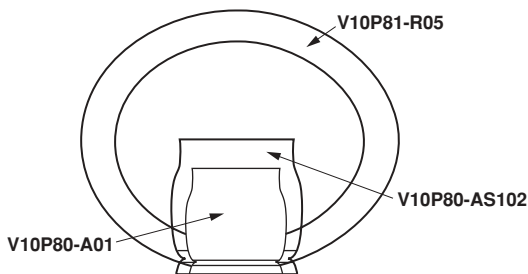
$$V = \sqrt{2gh} \dots\dots\dots \text{in./sec or ft./sec}$$

The total energy is considered the sum total of all energies involved, and this is the amount which is available to perform work.

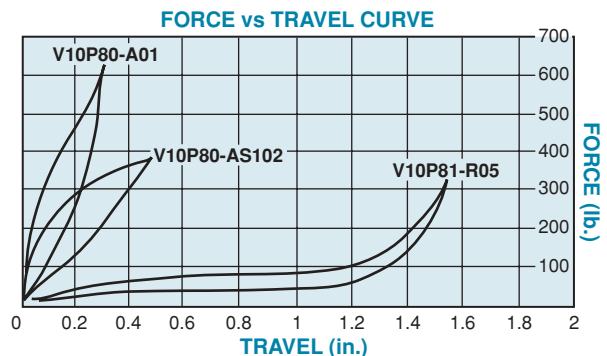
In the examples which follow, **simplified** formulas have been developed and used to provide a very close approximation. This enables the application of units which are most commonly used. The nomenclature used in these examples are as follows:

<b>E<sub>1</sub></b> Kinetic energy (lb. in.)	<b>F</b> Propelling force (lb.)	<b>t</b> Deceleration time (sec)
<b>E<sub>2</sub></b> Work (propelling force) Energy (lb. in.)	<b>C</b> Cycles per hour	<b>a</b> Deceleration (ft./sec <sup>2</sup> )
<b>E<sub>3</sub></b> Total energy (E <sub>1</sub> + E <sub>2</sub> lb. in.)	<b>HP</b> Motor energy (horsepower)	<b>u</b> Friction (coefficient)
<b>E<sub>4</sub></b> Total energy (E <sub>1</sub> + E <sub>2</sub> ) Per Hour (lb. in.)	<b>T</b> Torque (lb. in.)	<b>R<sub>s</sub></b> Shock absorber mounting radius (in.)
<b>W<sub>E</sub></b> Effective weight (lb.)	<b>g</b> Acceleration due to gravity (ft./sec <sup>2</sup> )	<b>K</b> Distance from pivot to center of gravity (in.)
<b>W</b> Weight of object (lb.)	<b>H</b> Falling height including stroke of shock absorber (in.)	<b>V<sub>s</sub></b> Velocity at the shock absorber (ft./sec)
<b>V</b> Velocity (ft./sec)	<b>S</b> Shock absorber stroke (in.)	<b>q</b> Reaction force (lb.)

The actual nature of the application and the availability of space will determine which type of Bumper will be used. In order to facilitate the choice, the following graph is given which compares the Force vs. Travel characteristics of the different types.



This drawing shows size comparison of identical capacity bumpers from each product group. The graph at the right shows comparable performance characteristics.



Continued on the next page



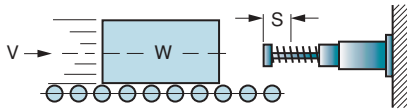


# Bumper Technical Information

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

## EXAMPLES

### 1. Weight with no propelling force



#### Formulas

$$E_1 = (0.2) \cdot (W) \cdot (V^2)$$

$$E_4 = (E_1) \cdot (C)$$

$$W_E = W$$

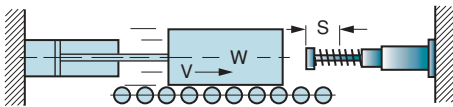
#### Example

W = 500 lb.  
V = 6 fps  
C = 500/hour

$$E_1 = (0.2) \cdot (500) \cdot (6^2) = 3600 \text{ lb. in.}$$

$$E_4 = (3600) \cdot (500) = 1,800,000 \text{ lb. in./hour}$$

### 2. Weight with propelling force



#### Formulas

$$E_1 = (0.2) \cdot (W) \cdot (V^2)$$

$$E_2 = (F) \cdot (S)$$

$$E_3 = E_1 + E_2$$

$$E_4 = (E_3) \cdot (C)$$

$$W_E = \frac{E_1 + E_2}{(0.2) \cdot (V^2)}$$

#### Example

W = 800 lb.  
V = 5 fps  
F = 300 lb.  
C = 250/hour  
S = 3 in.

$$E_1 = (0.2) \cdot (800) \cdot (5^2) = 4000 \text{ lb. in.}$$

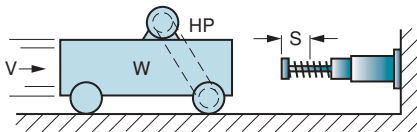
$$E_2 = (300) \cdot (3) = 900 \text{ lb. in.}$$

$$E_3 = 4000 + 900 = 4900 \text{ lb. in.}$$

$$E_4 = (4900) \cdot (250) = 1,225,000 \text{ lb. in./hour}$$

$$W_E = \frac{4000 + 900}{(0.2) \cdot (5^2)} = 980 \text{ lb.}$$

### 3. Motor driven weight



#### Formulas

$$E_1 = (0.2) \cdot (W) \cdot (V^2)$$

$$E_2 = (1375) \cdot (HP) \cdot (S)$$

$$E_3 = E_1 + E_2$$

$$E_4 = (E_3) \cdot (C)$$

$$W_E = \frac{E_1 + E_2}{(0.2) \cdot (V^2)}$$

#### Example

W = 1700 lb.  
V = 4 fps  
HP = 8  
C = 100/hour  
S = 4 in.

$$E_1 = (0.2) \cdot (1700) \cdot (4^2) = 5440 \text{ lb. in.}$$

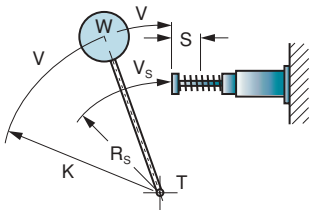
$$E_2 = \frac{(1375) \cdot (8) \cdot (4)}{4} = 11,000 \text{ lb. in.}$$

$$E_3 = 5440 + 11,000 = 16,440 \text{ lb. in.}$$

$$E_4 = (16,440) \cdot (100) = 1,644,000 \text{ lb. in./hour}$$

$$W_E = \frac{5440 + 11,000}{(0.2) \cdot (4^2)} = 5138 \text{ lb.}$$

### 4. Swinging weight with torque



#### Formulas

$$E_1 = (0.2) \cdot (W) \cdot (V^2)$$

$$E_2 = \frac{(T) \cdot (S)}{R_s}$$

$$E_3 = E_1 + E_2$$

$$E_4 = (E_3) \cdot (C)$$

$$V_s = \frac{(V) \cdot (R_s)}{K}$$

$$W_E = \frac{E_1 + E_2}{(0.2) \cdot (V_s^2)}$$

#### Example

W = 350 lb.  
V = 3 fps  
T = 1500 lb. in.  
R\_s = 20 in.  
K = 30 in.  
C = 250/hour  
S = 1 in.

$$E_1 = (0.2) \cdot (350) \cdot (3^2) = 630 \text{ lb. in.}$$

$$E_2 = \frac{(1500) \cdot (1)}{20} = 75 \text{ lb. in.}$$

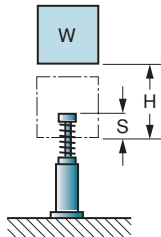
$$E_3 = 630 + 75 = 705 \text{ lb. in.}$$

$$E_4 = (705) \cdot (250) = 176,250 \text{ lb. in./hour}$$

$$V_s = \frac{(3) \cdot (20)}{30} = 2 \text{ fps}$$

$$W_E = \frac{630 + 75}{(0.2) \cdot (2^2)} = 881 \text{ lb.}$$

### 5. Free-falling weight



#### Formulas

$$E_1 = (W) \cdot (H \cdot S)$$

$$E_2 = (W) \cdot (S)$$

$$E_3 = (W) \cdot (H)$$

$$E_4 = (E_3) \cdot (C)$$

$$V = \sqrt{5 \cdot (H \cdot S)}$$

$$W_E = \frac{(W) \cdot (H)}{H \cdot S}$$

#### Example

W = 900 lb.  
H = 20 in.  
C = 100/hour  
S = 4 in.

$$E_1 = (900) \cdot (20 \cdot 4) = 14,400 \text{ lb. in.}$$

$$E_2 = (900) \cdot (4) = 3600 \text{ lb. in.}$$

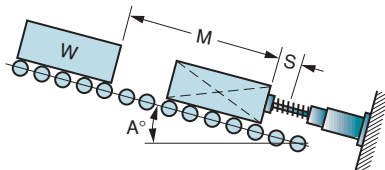
$$E_3 = (900) \cdot (20) = 18,000 \text{ lb. in.}$$

$$E_4 = (18,000) \cdot (100) = 1,800,000 \text{ lb. in.}$$

$$V = \sqrt{5 \cdot (20 \cdot 4)} = 8.9 \text{ fps}$$

$$W_E = \frac{(900) \cdot (20)}{20 \cdot 4} = 1125 \text{ lb.}$$

### 5.1 Weight without additional propelling force



#### Formulas

$$E_1 = (W) \cdot (M) \cdot (\sin A)$$

$$E_2 = (W) \cdot (S) \cdot (\sin A)$$

$$E_3 = (M + S) \cdot (W) \cdot (\sin A)$$

$$E_4 = (E_3) \cdot (C)$$

$$W_E = \frac{(W) \cdot (M + S)}{M}$$

#### Example

W = 900 lb.  
M = 75 in.  
S = 4 in.  
C = 100/hour  
A = 15°

$$E_1 = (900) \cdot (75) \cdot (\sin A) = 17,470 \text{ lb. in.}$$

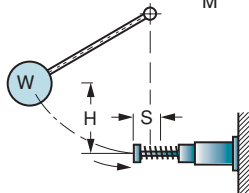
$$E_2 = (900) \cdot (4) \cdot (\sin A) = 932 \text{ lb. in.}$$

$$E_3 = 17,470 + 932 = 18,402 \text{ lb. in.}$$

$$E_4 = (18,402) \cdot (100) = 1,840,200 \text{ lb. in.}$$

$$W_E = \frac{(900) \cdot (75 + 4)}{75} = 948 \text{ lb.}$$

### 5.2 (Calculate as in Ex. 5) Free-swinging weight



Continued on the next page

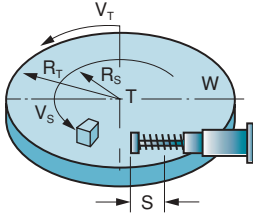


# Bumper Technical Information

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## EXAMPLES

### 6. Turntable with propelling force (horizontal or vertical)



#### Formulas

$$E_1 = (0.1) \cdot (W) \cdot (V_T)^2$$

$$E_2 = \frac{(T) \cdot (S)}{R_S}$$

$$E_3 = E_1 + E_2$$

$$E_4 = (E_3) \cdot (C)$$

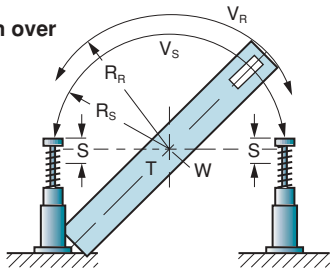
$$V_S = \frac{(R_S) \cdot (V_T)}{R_T}$$

$$W_E = \frac{E_1 + E_2}{0.2 \cdot V_S^2}$$

#### Example

W = 2000 lb.       $E_1 = (0.1) \cdot (2000) \cdot (3.5)^2 = 2450$  lb. in.  
 $R_T = 50$  in.       $E_2 = \frac{(15,000) \cdot (2)}{32} = 938$  lb. in.  
 $R_S = 32$  in.       $E_3 = 2450 + 938 = 3388$  lb. in.  
 $V_T = 3.5$  fps       $E_4 = (3388) \cdot (100) = 338,800$  lb. in./hour  
 $T = 15,000$  lb. in.       $V_S = \frac{(32) \cdot (3.5)}{50} = 2.24$  fps  
 $C = 100$ /hour       $W_E = \frac{2450 + 938}{0.2 \cdot 2.24^2} = 3376$  lb.  
 $S = 2$  in.

### 7. Turn over



#### Formulas

$$E_1 = \frac{(W) \cdot (V_R)^2}{15}$$

$$E_2 = \frac{(T) \cdot (S)}{R_S}$$

$$E_3 = E_1 + E_2$$

$$E_4 = (E_3) \cdot (C)$$

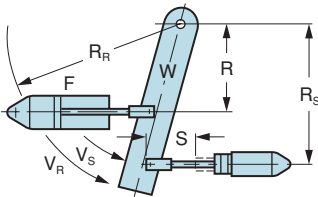
$$V_S = \frac{(R_S) \cdot (V_R)}{R_R}$$

$$W_E = \frac{E_1 + E_2}{0.2 \cdot (V_S)^2}$$

#### Example

W = 700 lb.       $E_1 = \frac{(700) \cdot (5^2)}{15} = 1167$  lb. in.  
 $R_R = 60$  in.       $E_2 = \frac{(25,000) \cdot (1)}{30} = 833$  lb. in.  
 $R_S = 30$  in.       $E_3 = 1167 + 833 = 2000$  lb. in.  
 $V_R = 5$  fps       $E_4 = (2000) \cdot (700) = 1,400,000$  lb. in./hour  
 $T = 25,000$  lb. in.       $V_S = \frac{(30) \cdot (5)}{60} = 2.5$  fps  
 $C = 700$ /hour       $W_E = \frac{1167 + 833}{(0.2) \cdot (2.5^2)} = 1600$  lb.  
 $S = 1$  in.

### 8. Swinging weight with propelling force



#### Formulas

$$E_1 = \frac{(W) \cdot (V_R)^2}{15}$$

$$E_2 = \frac{(T) \cdot (S) = (F) \cdot (R) \cdot (S)}{R_S}$$

$$E_3 = E_1 + E_2$$

$$E_4 = (E_3) \cdot (C)$$

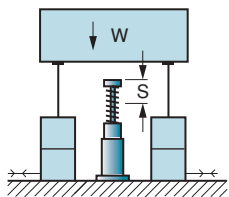
$$V_S = \frac{(R_S) \cdot (V_R)}{R_R}$$

$$W_E = \frac{E_1 + E_2}{0.2 \cdot (V_S)^2}$$

#### Example

W = 90 lb.       $E_1 = \frac{(90) \cdot (6.5)^2}{15} = 254$  lb. in.  
 $V_R = 6.5$  fps       $E_2 = \frac{(150) \cdot (24) \cdot (1)}{30} = 120$  lb. in.  
 $F = 150$  lb.       $E_3 = 254 + 120 = 374$  lb. in.  
 $R_R = 50$  in.       $E_4 = (374) \cdot (1800) = 673,000$  lb. in./hour  
 $R = 24$  in.       $V_S = \frac{(30) \cdot (6.5)}{50} = 3.9$  fps  
 $R_S = 30$  in.       $W_E = \frac{254 + 120}{(0.2) \cdot (3.9^2)} = 123$  lb.  
 $C = 1800$ /hour  
 $S = 1$  in.

### 9. Descending weight at controlled speed



#### Formulas

$$E_1 = (0.2) \cdot (W) \cdot (V^2)$$

$$E_2 = (W) \cdot (S)$$

$$E_3 = E_1 + E_2$$

$$E_4 = (E_3) \cdot (C)$$

$$W_E = \frac{E_1 + E_2}{(0.2) \cdot (V^2)}$$

#### Example

W = 40,000 lb.       $E_1 = (0.2) \cdot (40,000) \cdot (2.5^2) = 50,000$  lb. in.  
 $V = 2.5$  fps       $E_2 = (40,000) \cdot (5) = 200,000$  lb. in.  
 $C = 5$  hour       $E_3 = 50,000 + 200,000 = 250,000$  lb. in.  
 $S = 5$  in.       $E_4 = (250,000) \cdot (5) = 1,250,000$  lb. in./hour  
 $W_E = \frac{50,000 + 200,000}{(0.2) \cdot (2.5^2)} = 200,000$  lb.

Reaction force (pounds) q  
For all examples

$$q = \frac{(1.5)(E_3)}{S}$$

Stopping time (seconds) For all examples

$$t = \frac{S}{(6) \cdot (V_S)}$$

Deceleration (feet per second<sup>2</sup>) For all examples

$$a = \frac{(6) \cdot (V_S)^2}{S}$$

NOTE:  $V_S$  = Velocity at impact with shock absorber



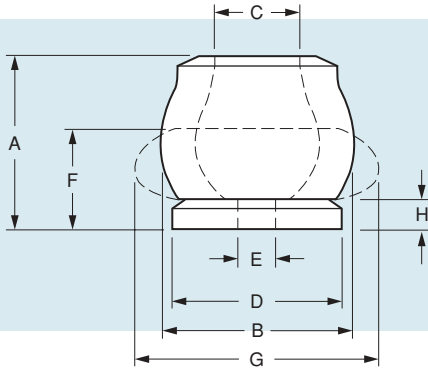
# Bumpers – Axial Type – High-Load

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: High-Performance Elastomer-Polyester

• OUTDOOR ENVIRONMENTS • HIGH-PERFORMANCE  
• HIGHLY INERT TO MOST CHEMICALS AND LUBRICANTS

**New**



TEMPERATURE RANGE: -40°F to +120°F (-40°C to +48.9°C)

Catalog Number	Energy Capacity lb. in. (kgf. m.)	Max. Force lb. (kgf)	A Free Height in. (mm)	B Free Bulge in. (mm)	C Wrench Hole in. (mm)
V10P80-A01	100 (1.15)	700 (318)	.76 (19.3)	.85 (21.6)	.41 (10.4)
V10P80-A02	250 (2.88)	1200 (544)	1.01 (25.7)	1.11 (28.2)	.56 (14.2)
V10P80-A03	400 (4.61)	2000 (907)	1.18 (30)	1.35 (34.3)	.66 (16.8)
V10P80-A05	700 (8.06)	2500 (1134)	1.37 (34.8)	1.55 (39.4)	.80 (20.3)
V10P80-A07	1100 (12.67)	3300 (1497)	1.62 (41.1)	1.83 (46.5)	.93 (23.6)
V10P80-A08	1400 (16.13)	3800 (1724)	1.77 (45)	1.96 (49.8)	1.02 (25.9)
V10P80-A10	2000 (23.04)	5000 (2268)	2.02 (51.3)	2.25 (57.2)	1.16 (29.5)
V10P80-A11	2500 (28.8)	5300 (2404)	2.11 (53.6)	2.43 (61.7)	1.23 (31.2)
V10P80-A12	3000 (34.56)	6100 (2767)	2.26 (57.4)	2.54 (64.5)	1.30 (33)
V10P80-A14	4000 (46.08)	7500 (3402)	2.54 (64.5)	2.81 (71.4)	1.41 (35.8)

Catalog Number	D Base Diameter in. (mm)	E Mounting Hole in. (mm)	F Loaded Height in. (mm)	G Loaded Bulge in. (mm)	H Base Thickness in. (mm)	Weight oz. (g)
V10P80-A01	.75 (19.1)	.31 (7.9)	.40 (10.2)	1.07 (27.2)	.13 (3.3)	.16 (4.5)
V10P80-A02	.98 (24.9)		.53 (13.5)	1.43 (36.3)	.16 (4.1)	.37 (10.5)
V10P80-A03	1.16 (29.5)		.63 (16)	1.70 (43.2)	.19 (4.8)	.62 (17.6)
V10P80-A05	1.35 (34.3)	.42 (10.7)	.73 (18.5)	2.00 (50.8)	.22 (5.6)	1.00 (28.3)
V10P80-A07	1.61 (40.9)		.86 (21.8)	2.33 (59.2)	.26 (6.6)	1.70 (48.2)
V10P80-A08	1.71 (43.4)	.55 (14)	.92 (23.4)	2.51 (63.8)	.28 (7.1)	2.00 (56.7)
V10P80-A10	1.97 (50)		1.06 (26.9)	2.86 (72.6)	.32 (8.1)	3.10 (87.9)
V10P80-A11	2.08 (52.8)		1.12 (28.4)	3.05 (77.5)	.34 (8.6)	3.70 (104.9)
V10P80-A12	2.23 (56.6)		1.19 (30.2)	3.22 (81.8)	.36 (9.1)	4.60 (130.4)
V10P80-A14	2.46 (62.5)	.81 (20.6)	1.32 (33.5)	3.58 (90.9)	.40 (10.2)	6.10 (172.9)

See page 6-2 for technical information.



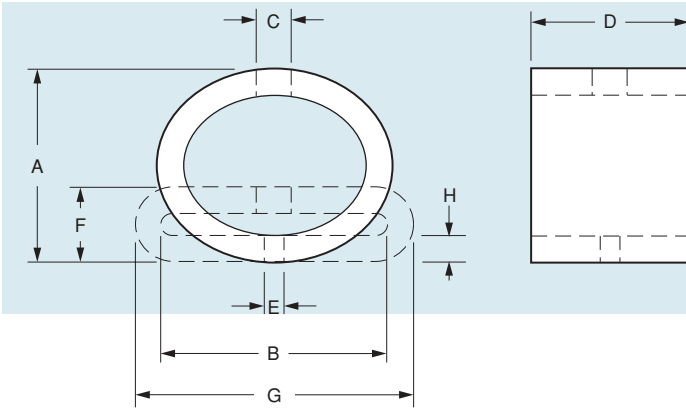
www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

# Bumpers – Radial Type

• **MATERIAL:** High-Performance Elastomer-Polyester

• **OUTDOOR ENVIRONMENTS** • **HIGH-PERFORMANCE**  
 • **HIGHLY INERT TO MOST CHEMICALS AND LUBRICANTS**

**New**



TEMPERATURE RANGE: -40°F to +120°F (-40°C to +48.9°C)

Catalog Number	Energy Capacity lb. in. (kgf. m.)	Max. Force lb. (kgf)	A Free Height in. (mm)	B Free Bulge in. (mm)	C Wrench Hole in. (mm)
V10P81-R01	10 (0.12)	75 (34)	.97 (24.6)	1.12 (28.4)	.38 (9.5)
V10P81-R02	20 (0.23)	100 (45)	1.25 (31.8)	1.44 (36.6)	
V10P81-R03	30 (0.35)	150 (68)	1.47 (37.3)	1.67 (42.4)	
V10P81-R04	50 (0.58)	200 (91)	1.72 (43.7)	1.95 (49.5)	
V10P81-R05	100 (1.15)	300 (136)	2.17 (55.1)	2.48 (63)	
V10P81-R06	200 (2.30)	475 (215)	2.31 (58.7)	2.61 (66.3)	
V10P81-R07	300 (3.46)	600 (272)	2.65 (67.3)	3.00 (76.2)	

Catalog Number	D Width in. (mm)	E Mounting Hole in. (mm)	F Loaded Height in. (mm)	G Loaded Bulge in. (mm)	H Base Thickness in. (mm)	Weight oz. (g)
V10P81-R01	.52 (13.2)	.22 (5.6)	.32 (8.1)	1.51 (38.4)	.15 (3.8)	.24 (6.8)
V10P81-R02	.76 (19.3)		.41 (10.4)	1.96 (49.8)	.20 (5.1)	.48 (13.6)
V10P81-R03	.79 (20.1)		.48 (12.2)	2.27 (57.7)	.23 (5.8)	.60 (17)
V10P81-R04	1.36 (34.5)		.37 (9.4)	2.68 (68.1)	.16 (4.1)	.90 (25.5)
V10P81-R05	1.70 (43.2)		.47 (11.9)	3.43 (87.1)	.26 (6.6)	1.80 (51)
V10P81-R06	1.82 (46.2)		.74 (18.8)	3.47 (88.1)	.35 (8.9)	2.80 (79.4)
V10P81-R07	1.80 (45.7)		.28 (7.1)	.85 (21.6)	4.03 (102.4)	.40 (10.2)

See page 6-2 for technical information.



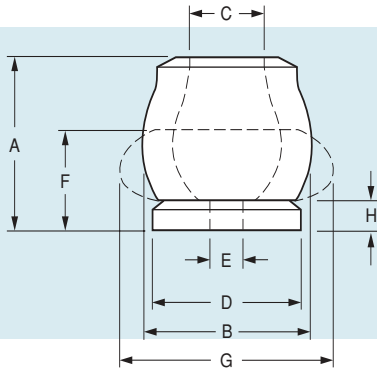
# Bumpers – Axial Type – Low-Load

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: High-Performance Elastomer-Polyester

• OUTDOOR ENVIRONMENTS • HIGH-PERFORMANCE  
• HIGHLY INERT TO MOST CHEMICALS AND LUBRICANTS

**New**



TEMPERATURE RANGE: -40°F to +120°F (-40°C to +48.9°C)

Catalog Number	Energy Capacity lb. in. (kgf. m.)	Max. Force lb. (kgf)	A Free Height in. (mm)	B Free Bulge in. (mm)	C Wrench Hole in. (mm)
V10P80-AS101	50 (0.58)	300 (136)	.81 (20.6)	.79 (20.1)	.48 (12.2)
V10P80-AS102	100 (1.15)	400 (181)	1.09 (27.7)	1.02 (25.9)	.63 (16)
V10P80-AS103	200 (2.3)	600 (272)	1.27 (32.3)	1.24 (31.5)	.77 (19.6)
V10P80-AS105	300 (3.46)	900 (408)	1.48 (37.6)	1.46 (37.1)	.82 (20.8)
V10P80-AS107	550 (6.34)	1300 (590)	1.75 (44.5)	1.68 (42.7)	.98 (24.9)
V10P80-AS108	700 (8.06)	1600 (726)	1.91 (48.5)	1.88 (47.8)	1.09 (27.7)
V10P80-AS109	800 (9.22)	1900 (862)	2.03 (51.6)	1.99 (50.5)	1.12 (28.4)
V10P80-AS111	1200 (13.82)	2200 (998)	2.33 (59.2)	2.28 (57.9)	1.30 (33)

Catalog Number	D Base Diameter in. (mm)	E Mounting Hole in. (mm)	F Loaded Height in. (mm)	G Loaded Bulge in. (mm)	H Base Thickness in. (mm)	Weight oz. (g)
V10P80-AS101	.73 (18.5)	.31 (7.9)	.40 (10.2)	1.08 (27.4)	.12 (3)	.14 (4)
V10P80-AS102	.98 (24.9)		.53 (13.5)	1.45 (36.8)	.16 (4.1)	.32 (9.1)
V10P80-AS103	1.18 (30)		.63 (16)	1.72 (43.7)	.19 (4.8)	.56 (15.9)
V10P80-AS105	1.35 (34.3)		.73 (18.5)	1.99 (50.5)	.22 (5.6)	1.00 (28.3)
V10P80-AS107	1.58 (40.1)	.56 (14.2)	.86 (21.8)	2.35 (59.7)	.26 (6.6)	1.50 (42.5)
V10P80-AS108	1.73 (43.9)		.92 (23.4)	2.53 (64.3)	.28 (7.1)	2.10 (59.5)
V10P80-AS109	1.85 (47)		.99 (25.1)	2.71 (68.8)	.30 (7.6)	2.50 (70.9)
V10P80-AS111	2.09 (53.1)		1.12 (28.4)	3.07 (78)	.35 (8.9)	3.50 (99.2)

See page 6-2 for technical information.

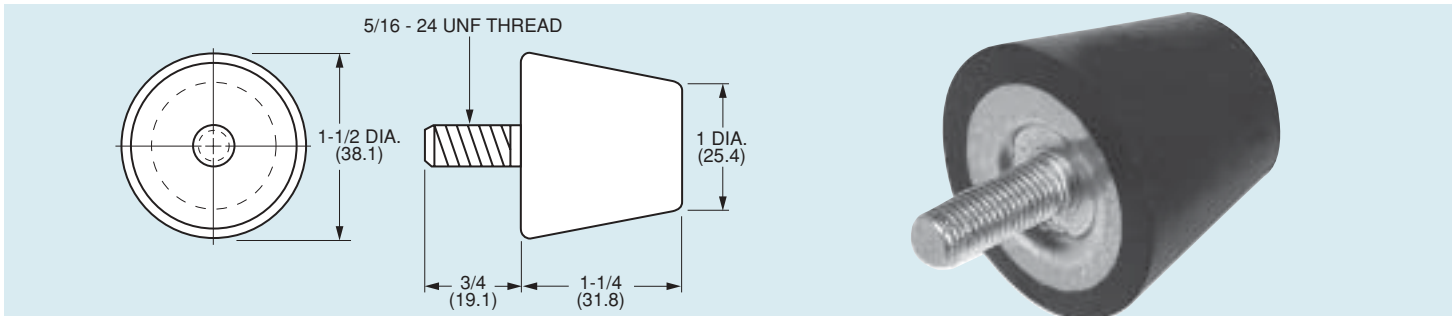


# Bumpers – Conical

[www.vibrationmounts.com](http://www.vibrationmounts.com) Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

- **FOR LOADS OF 44 TO 62 POUNDS (20 to 28.1 kgf)**



**NOTE:** Dimensions in ( ) are mm.

Catalog Number	Recommended Maximum Load	
	Static lb. (kgf)	Occasional Dynamic lb. (kgf)
V10Z 7-1020A	44 (20)	80 (36.3)
V10Z 7-1020B	49 (22.2)	100 (45.4)
V10Z 7-1020C	56 (25.4)	122 (55.3)
V10Z 7-1020D	62 (28.1)	145 (65.8)



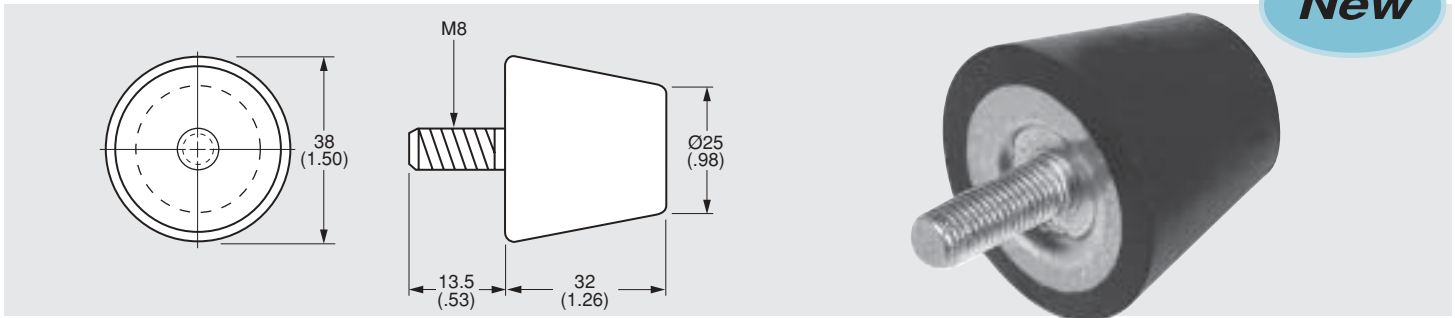


# Bumpers – Conical

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- MATERIAL: Fasteners – Steel, Zinc Plated  
Isolator – Natural Rubber

- FOR LOADS OF 20 TO 28 kgf (44 TO 62 lb.)



NOTE: Dimensions in ( ) are inch.

Metric

Catalog Number	Recommended Maximum Load	
	Static kgf (lb.)	Occasional Dynamic kgf (lb.)
V10Z 7M1020AM	20 (44)	36.3 (80)
V10Z 7M1020BM	22.2 (49)	45.4 (100)
V10Z 7M1020CM	25.4 (56)	55.3 (122)
V10Z 7M1020DM	28.1 (62)	65.8 (145)

## Did You Know?

...That substantial quantity discounts are available for all products?

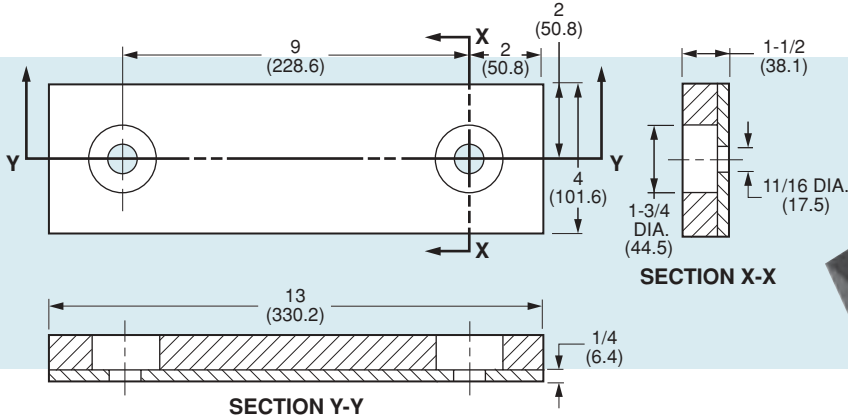


# Bumpers – Rectangular

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Isolator – Natural Rubber  
Base – Steel

- **FOR LOADS TO 4700 POUNDS (2132 kgf)**



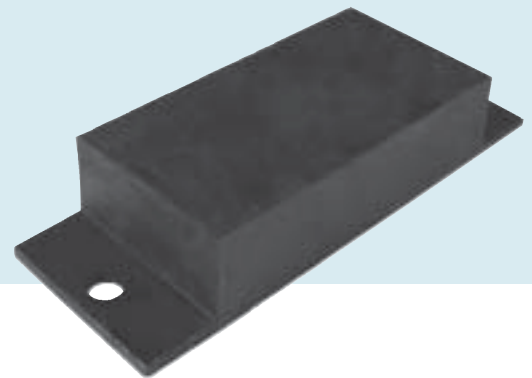
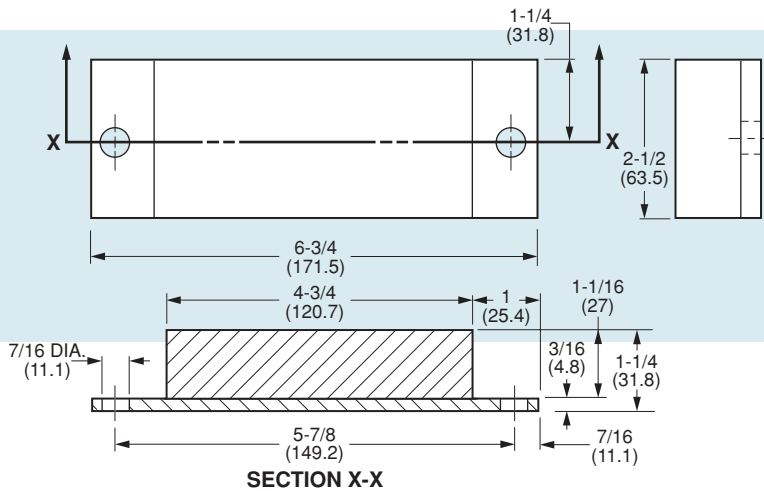
NOTE: Dimensions in ( ) are mm.

Catalog Number*	Recommended Maximum Loads lb. (kgf)	
	Static	Occasional Dynamic
V10Z 7-1001	4700 (2132)	11000 (4990)

\*To be discontinued when present stock is depleted.

- **MATERIAL:** Isolator – Natural Rubber  
Base – Steel

- **FOR LOADS TO 1200 POUNDS (544 kgf)**



NOTE: Dimensions in ( ) are mm.

Catalog Number*	Recommended Maximum Loads lb. (kgf)	
	Static	Occasional Dynamic
V10Z 7-1011	1200 (544)	2150 (975)

\*To be discontinued when present stock is depleted.

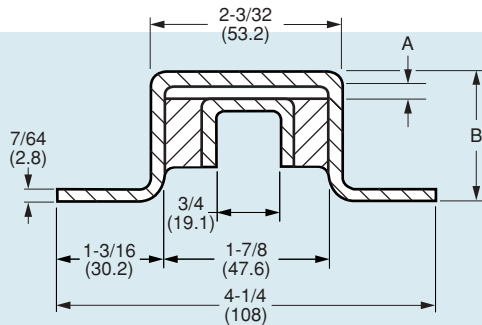


# Channel Mounts – To 52 lbs./in.

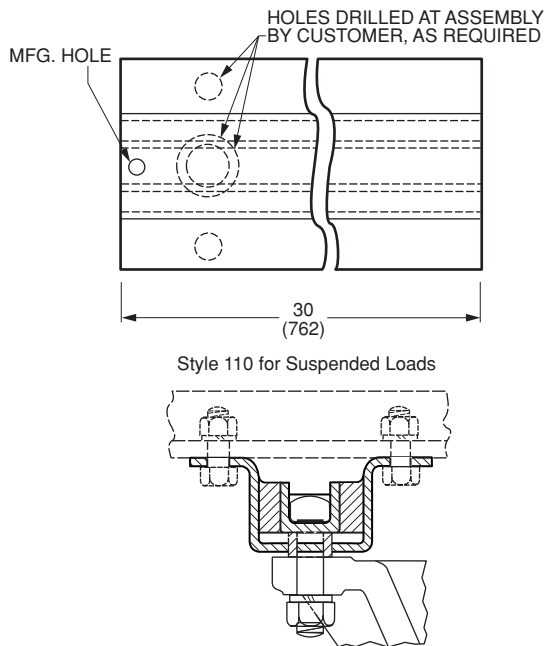
www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Isolator – Natural Rubber  
Channels – Steel

- **FOR LOADS UP TO 52 lb. / in. (0.93 kgf / mm) OF LENGTH**
- **SUPPLIED IN 30 INCH (762 mm) LENGTHS**



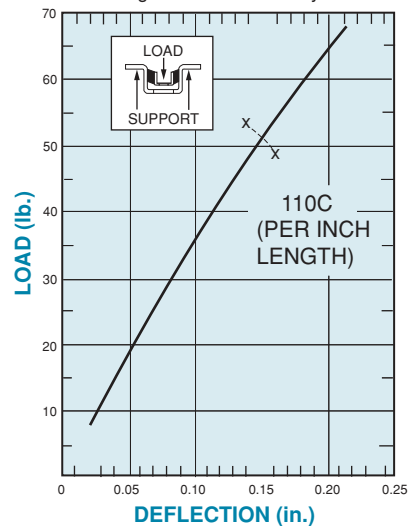
INSTALLATION INFORMATION



Spacers and Mounting Hardware NOT Provided

**NOTE:** Dimensions in ( ) are mm.

**LOAD DEFLECTION GRAPH**  
Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.

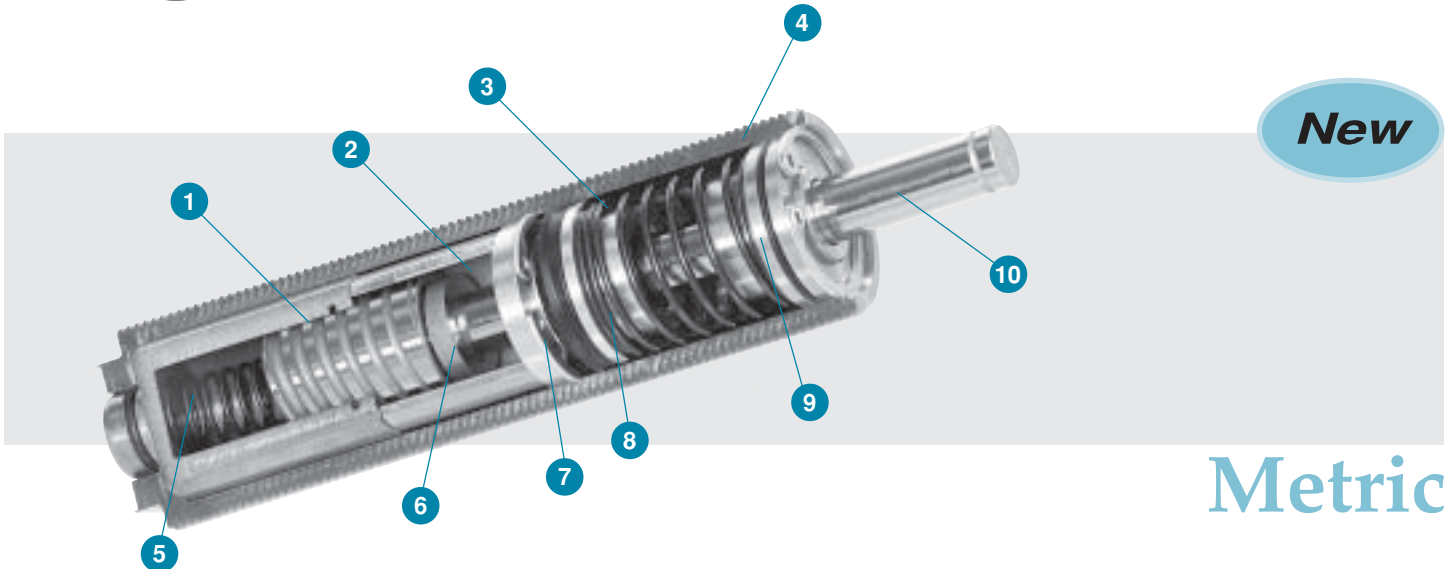


Catalog Number	Load Limit lb./in. (kgf/mm)	Forcing Frequency in Cycles per Minute					Dimensions in. (mm)	
		1200	1500	1800	2100	2400	A	B
		Min. Load for 81% Isolation lb./in. (kgf/mm)						
V10Z 5-110C	52 (0.93)	52 (0.93)	35 (0.63)	26.5 (0.47)	20 (0.36)	16 (0.29)	3/8 (9.5)	1-39/64 (40.9)

**NOTE:** 81% vibration absorption (usually satisfactory) will be obtained when the mount indicated is operating at the minimum load shown for each forced frequency. Better than 81% absorption will be obtained either with a greater load (within the limits shown) for a given forced frequency, or with a higher forced frequency for a given load.



# Shock Absorber Features



Metric

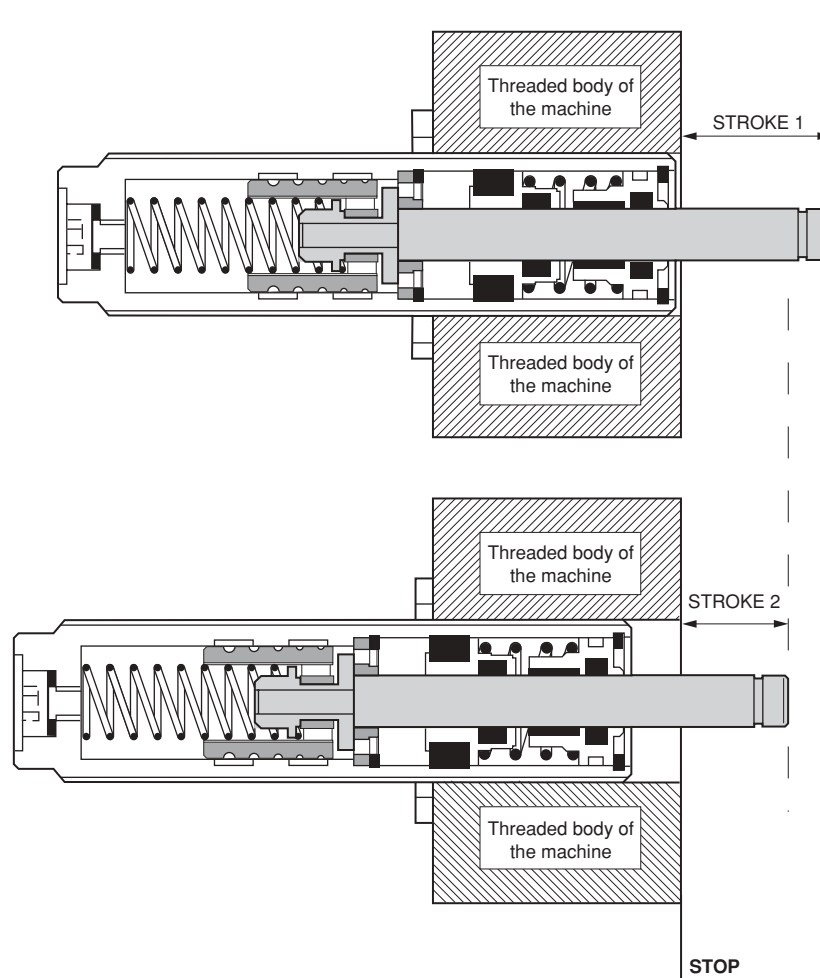
- **DOUBLE ENERGY ABSORPTION**
- **SMOOTH DAMPING**
- **RESERVE OIL**

These features are obtained by:

- **Energy absorption:** Up to three times as much as conventional shock absorbers. This is achieved by the size of the piston and the large volume of oil.
- **Service life:** Substantially longer and more reliable as a result of reserve oil storage.
- **Damping action:** Constant over the entire stroke due to the spiral groove design.
- **Cycle time:** Minimal due to the large nominal size of the check valve.
- **Adjustability:** Fast and simple due to the adjustment by means of rotation of the threaded housing.
- **Quality:** Made to meet the highest requirements: steel, hardened and ground, nickel-plated. Made in Germany.

#### FEATURES:

- 1 Metering piston with helical groove
- 2 Storage chamber / oil reserve storage
- 3 Guide
- 4 Housing
- 5 Spring I
- 6 Check Valve
- 7 Seal
- 8 Spring II
- 9 Seal
- 10 Piston Rod



The damping amount can easily be adjusted within a very narrow range due to the new and unique design of our shock absorbers.

Adjustment of damping is possible even to the last mm of the stroke. The shock absorber just has to be retracted slightly. By reducing the stroke, you can decrease the braking action.

#### • Stroke control

Attention! The shock absorber may not be used as a fixed stop.

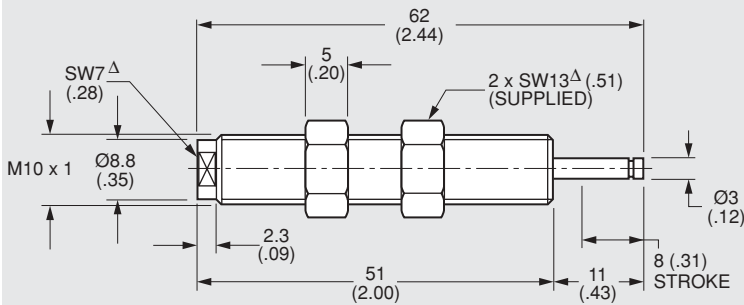


# Shock Absorbers

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL: Housing** – Steel, Hardened and Ground, Nickel Plated

- **DOUBLE ENERGY ABSORPTION**
- **SMOOTH DAMPING** • **RESERVE OIL**
- **HELICAL GROOVE TECHNOLOGY**



**Stroke:** 8 mm (.3 in.)  
**Piston Reset Time:** .2 sec.  
**Min. Resetting Force:** 6 N (1.35 lbf)  
**Max. Resetting Force:** 12 N (2.70 lbf)  
**Weight:** 0.02 kg (.71 oz.)

**New**



**NOTE:** Dimensions in ( ) are inch.  
 $\Delta$ SW indicates dimension across flats.

Metric

Catalog Number	Max. Energy Absorption per Stroke J (lbf · in.)	Max. Energy Absorption per Hour J (lbf · in./h)	Min. Impact Speed m/s (ft./s)	Max. Impact Speed m/s (ft./s)	Effective Mass*	
					Max. kg (lb.)	Min. kg (lb.)
V20S10M100H	10 (88.5)	16000 (141600)	0.2 (.66)	1.4 (4.59)	50 (110.2)	10 (22)
V20S10M100M			1.2 (3.94)	2.2 (7.22)	14 (30.9)	4 (8.8)
V20S10M100S			2 (6.56)	4 (13.12)	5 (10)	1 (2.2)

\*As comparative figure to conventional shock absorbers.  
 All data measured at 20% safety.

## Accessories

Head	Shaft Support / Dirt Seal	Stop Sleeves	Cooler Nut
Steel <b>V21S01MMKS10</b> Steel with Plastic Insert** <b>V21S01MMKK10</b>	Steel <b>V21S02M16045</b>	Vanadium Steel Alloy <b>V21S04MSS10100</b>	Aluminum <b>V21S03MCN10100</b>

$\Delta$ SW indicates dimension across flats.



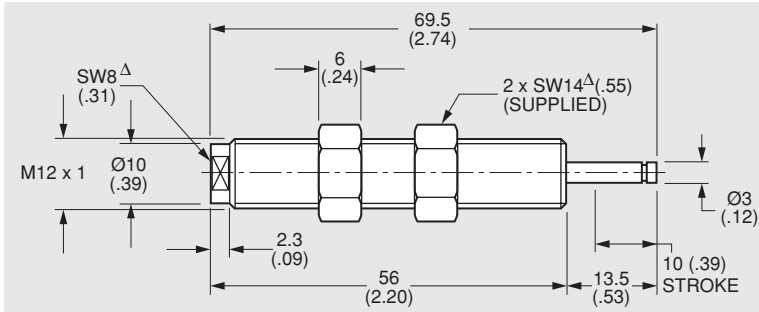


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**New**

**Stroke:** 10 mm (.4 in.)  
**Piston Reset Time:** .3 sec.  
**Min. Resetting Force:** 8 N (1.80 lbf)  
**Max. Resetting Force:** 15 N (3.37 lbf)  
**Weight:** 0.04 kg (1.41 oz.)



**NOTE:** Dimensions in ( ) are inch.  
<sup>Δ</sup>SW indicates dimension across flats.

## Metric

Catalog Number	Max. Energy Absorption per Stroke J (lbf · in.)	Max. Energy Absorption per Hour J (lbf · in./h)	Min. Impact Speed m/s (ft./s)	Max. Impact Speed m/s (ft./s)	Effective Mass*	
					Max. kg (lb.)	Min. kg (lb.)
V20S12M100H	16 (141.6)	30000 (265500)	0.2 (.66)	1.4 (4.59)	800 (1764)	16 (35.3)
V20S12M100M			1.2 (3.94)	2.2 (7.22)	22 (48.5)	7 (15.4)
V20S12M100S			2 (6.56)	5 (11.00)	8 (17.6)	1 (2.2)

\*As comparative figure to conventional shock absorbers.  
 All data measured at 20% safety.

### Accessories

Head	Shaft Support / Dirt Seal	Stop Sleeves	Cooler Nut
Steel <b>V21S01MMKS12</b> Steel with Plastic Insert** <b>V21S01MMKK12</b>	Steel <b>V21S02M18054</b>	Vanadium Steel Alloy <b>V21S04MSS12100</b>	Aluminum <b>V21S03MCN12100</b>

<sup>Δ</sup>SW indicates dimension across flats.

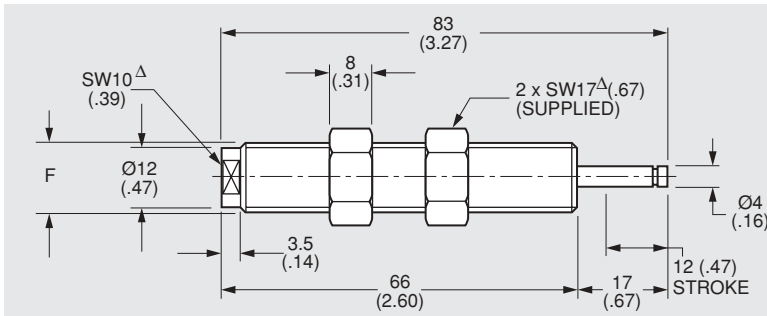


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**New**

**Stroke:** 12 mm (.47 in.)  
**Piston Reset Time:** .3 sec.  
**Min. Resetting Force:** 10 N (2.25 lbf)  
**Max. Resetting Force:** 20 N (4.50 lbf)  
**Weight:** 0.06 kg (2.17 oz.)



**Metric**

**NOTE:** Dimensions in ( ) are inch.  
<sup>Δ</sup>SW indicates dimension across flats.

Catalog Number	F Thread Size	Max. Energy Absorption per Stroke J (lbf · in.)	Max. Energy Absorption per Hour J (lbf · in./h)	Min. Impact Speed m/s (ft./s)	Max. Impact Speed m/s (ft./s)	Effective Mass <sup>∅</sup>	
						Max. kg (lb.)	Min. kg (lb.)
V20S14M100H	M14 X 1	31 (274.4)	50000 (442500)	0.2 (.66)	1.4 (4.59)	1550 (3417)	32 (70.5)
V20S14M100M				1.2 (3.94)	2.2 (7.22)	43 (94.8)	13 (28.7)
V20S14M100S				2 (6.56)	5 (11.00)	16 (35.3)	2 (4.4)
V20S14M150H	M14 X 1.5	31 (274.4)	50000 (442500)	0.2 (.66)	1.4 (4.59)	1550 (3417)	32 (70.5)
V20S14M150M				1.2 (3.94)	2.2 (7.22)	43 (94.8)	13 (28.7)
V20S14M150S				2 (6.56)	5 (11.00)	16 (35.3)	2 (4.4)

<sup>∅</sup>As comparative figure to conventional shock absorbers. All data measured at 20% safety.

**Accessories**

Head	Shaft Support / Dirt Seal	Stop Sleeves	Cooler Nut
<b>Steel</b> <b>V21S01MMKS14</b> Steel with Plastic Insert* <b>V21S01MMKK14</b>	<b>Steel</b> <b>V21S02M20063</b>	<b>Vanadium Steel Alloy</b> <b>V21S04MSS14100**</b> <b>V21S04MSS14150</b>	<b>Aluminum</b> <b>V21S03MCN14100<sup>§</sup></b> <b>V21S03MCN14150</b>

<sup>Δ</sup>SW indicates dimension across flats.



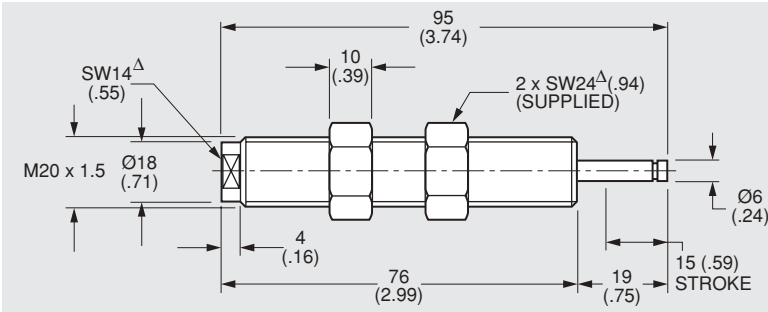
# Shock Absorbers

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

SECTION 6

• **MATERIAL: Housing** – Steel, Hardened and Ground, Nickel Plated

- **DOUBLE ENERGY ABSORPTION**
- **SMOOTH DAMPING** • **RESERVE OIL**
- **HELICAL GROOVE TECHNOLOGY**



**New**

**Stroke:** 15 mm (.59 in.)  
**Piston Reset Time:** .5 sec.  
**Min. Resetting Force:** 15 N (3.37 lbf)  
**Max. Resetting Force:** 25 N (5.62 lbf)  
**Weight:** 0.13 kg (4.59 oz.)



Metric

**NOTE:** Dimensions in ( ) are inch.  
<sup>Δ</sup>SW indicates dimension across flats.

Catalog Number	Stop	Max. Energy Absorption per Stroke J (lbf · in.)	Max. Energy Absorption per Hour J (lbf · in./h)	Min. Impact Speed m/s (ft./s)	Max. Impact Speed m/s (ft./s)	Effective Mass*	
						Max. kg (lb.)	Min. kg (lb.)
V20S20M150H	Power Stop	70 (619.5)	63000 (557550)	0.2 (.66)	1.2 (3.94)	3500 (7716)	97 (213.8)
V20S20M150M				1 (3.28)	2 (6.56)	140 (308.6)	35 (77.2)
V20S20M150S				1.8 (5.91)	4.5 (14.76)	43 (94.8)	7 (15.4)
V20S20M150HN	Emergency Stop	150 (1327.5)	—	0.2 (.66)	1.2 (3.94)	7500 (16534)	208 (458.6)
V20S20M150MN				1 (3.28)	2 (6.56)	300 (661)	75 (165.3)
V20S20M150SN				1.8 (5.91)	4.5 (14.76)	93 (205)	15 (33)

\*As comparative figure to conventional shock absorbers. All data measured at 20% safety.

### Accessories

Head	Shaft Support / Dirt Seal	Stop Sleeves	Cooler Nut
<b>Steel V21S01MMKS20</b> Steel with Plastic Insert** <b>V21S01MMKK20</b>	<b>Steel V21S02M25077</b>	<b>Vanadium Steel Alloy V21S04MSS20150</b>	<b>Aluminum V21S03MCN20150</b>

<sup>Δ</sup>SW indicates dimension across flats.



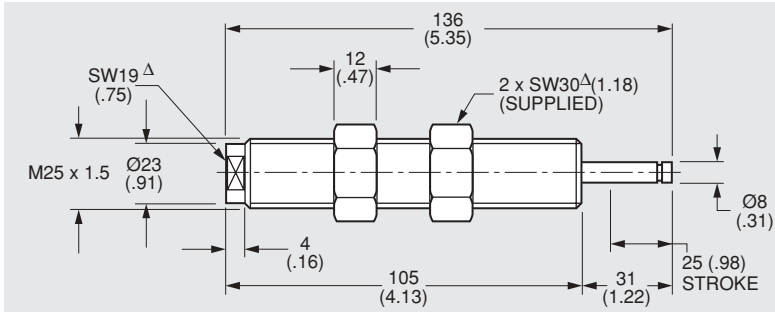
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SECTION 6



**Stroke:** 25 mm (.98 in.)  
**Piston Reset Time:** .6 sec.  
**Min. Resetting Force:** 20 N (4.50 lbf)  
**Max. Resetting Force:** 40 N (9.00 lbf)  
**Weight:** 0.27 kg (9.52 oz.)

**New**



**NOTE:** Dimensions in ( ) are inch.  
 $\Delta$ SW indicates dimension across flats.

## Metric

Catalog Number	Stop	Max. Energy Absorption per Stroke J (lbf · in.)	Max. Energy Absorption per Hour J (lbf · in./h)	Min. Impact Speed m/s (ft./s)	Max. Impact Speed m/s (ft./s)	Effective Mass*	
						Max. kg (lb.)	Min. kg (lb.)
V20S25M150H	Power Stop	210 (1858.5)	95000 (840750)	0.2 (.66)	0.8 (2.62)	10500 (23148)	656 (1446)
V20S25M150M				0.6 (1.97)	1.8 (5.91)	1167 (2573)	130 (286.6)
V20S25M150S				1.4 (4.59)	4 (13.1)	214 (471.8)	26 (57.3)
V20S25M150HN	Emergency Stop	550 (4867.5)	—	0.2 (.66)	0.8 (2.62)	27500 (60627)	1719 (3790)
V20S25M150MN				0.6 (1.97)	1.8 (5.91)	3056 (6737)	340 (749.6)
V20S25M150SN				1.4 (4.59)	4 (13.1)	561 (1237)	69 (152)

\*As comparative figure to conventional shock absorbers. All data measured at 20% safety.

### Accessories

Head	Shaft Support / Dirt Seal	Stop Sleeves	Cooler Nut
Steel <b>V21S01MMKS25</b> Steel with Plastic Insert** <b>V21S01MMKK25</b>	Steel <b>V21S02M33103</b>	Vanadium Steel Alloy <b>V21S04MSS25150</b>	Aluminum <b>V21S03MCN25150</b>

$\Delta$ SW indicates dimension across flats.

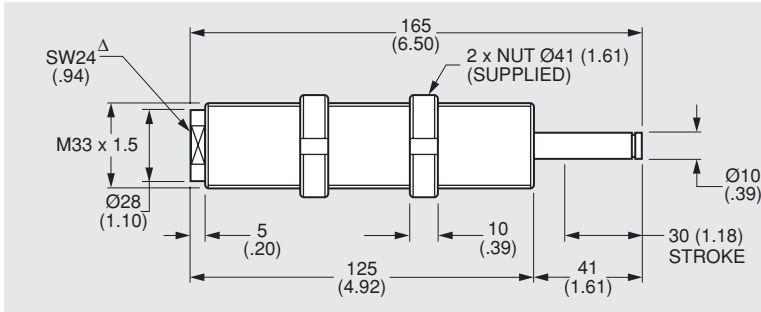


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**Stroke:** 30 mm (1.18 in.)  
**Piston Reset Time:** .6 sec.  
**Min. Resetting Force:** 35 N (7.87 lbf)  
**Max. Resetting Force:** 75 N (16.86 lbf)  
**Weight:** 0.48 kg (16.93 oz.)

**New**



Metric

Catalog Number	Stop	Max. Energy Absorption per Stroke J (lbf · in.)	Max. Energy Absorption per Hour J (lbf · in./h)	Min. Impact Speed m/s (ft./s)	Max. Impact Speed m/s (ft./s)	Effective Mass*	
						Max. kg (lb.)	Min. kg (lb.)
V20S33M150H	Power Stop	320 (2832)	120000 (1062000)	0.2 (.66)	0.8 (2.62)	16000 (35273)	1000 (2204.6)
V20S33M150M				0.6 (1.97)	2 (6.56)	1778 (3920)	160 (352.7)
V20S33M150S				1.4 (4.59)	3.5 (11.48)	327 (720.9)	52 (114.64)
V20S33M150HN	Emergency Stop	900 (7965)	—	0.2 (.66)	0.8 (2.62)	45000 (99207)	2813 (6202)
V20S33M150MN				0.6 (1.97)	2 (6.56)	5000 (11023)	450 (992)
V20S33M150SN				1.4 (4.59)	3.5 (11.48)	918 (2024)	147 (324.1)

\*As comparative figure to conventional shock absorbers. All data measured at 20% safety.

**Accessories**

Head	Shaft Support / Dirt Seal	Stop Sleeves	Cooler Nut
Steel <b>V21S01MMKS33</b>  Steel with Plastic Insert** <b>V21S01MMKK33</b>	Steel <b>V21S02M45130</b>	Vanadium Steel Alloy <b>V21S04MSS33150</b>	Aluminum <b>V21S03MCN33150</b>

ΔSW indicates dimension across flats.



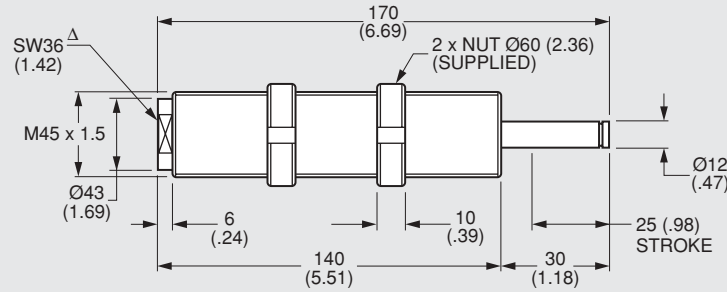
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**New**



**Stroke:** 25 mm (.98 in.)  
**Piston Reset Time:** .6 sec.  
**Min. Resetting Force:** 40 N (8.99 lbf)  
**Max. Resetting Force:** 80 N (17.98 lbf)  
**Weight:** 1.25 kg (44.1 oz.)



**NOTE:** Dimensions in ( ) are inch.  
<sup>Δ</sup>SW indicates dimension across flats.

Metric

Catalog Number	Stop	Max. Energy Absorption per Stroke J (lbf · in.)	Max. Energy Absorption per Hour J (lbf · in./h)	Min. Impact Speed m/s (ft./s)	Max. Impact Speed m/s (ft./s)	Effective Mass*	
						Max. kg (lb.)	Min. kg (lb.)
V20S45M150H	Power Stop	650 (5753)	150000 (1327500)	0.2 (.66)	0.7 (2.30)	32500 (71650)	2653 (5849)
V20S45M150M				0.6 (1.97)	1.6 (5.25)	3611 (7961)	508 (1120)
V20S45M150S				1.4 (4.59)	3.5 (11.48)	663 (1462)	106 (233.7)
V20S45M150HN	Emergency Stop	1500 (13275)	—	0.2 (.66)	0.7 (2.30)	75000 (165345)	6122 (13497)
V20S45M150MN				0.6 (1.97)	1.6 (5.25)	8333 (18371)	1172 (2584)
V20S45M150SN				1.4 (4.59)	3.5 (11.48)	1531 (3375)	245 (540.1)

\*As comparative figure to conventional shock absorbers. All data measured at 20% safety.

**Accessories**

Head	Stop Sleeves	Cooler Nut
Steel <b>V21S01MMKS45</b> Steel with Plastic Insert** <b>V21S01MMKK45</b>	Vanadium Steel Alloy <b>V21S04MSS45150</b>	Aluminum <b>V21S03MCN45150</b> <b>V21S03MCN45150L<sup>Δ</sup></b> (Longer Length)
 Ø12 (.47) Ø38 (1.50) 5 (.20) 15 (.59)	 SW55 <sup>Δ</sup> (2.17) M45 X 1.5 Ø58 (2.28) 15 (.59) 50 (1.97)	 0.5 (.020) x 45° 0.5 (.020) x 45° M45 X 1.5 Ø60 (2.36) Ø52 (2.05) 92 (3.62) or 132 (5.20) 110 (4.33) or 150 (5.91) 18 (.71) SW55 <sup>Δ</sup> (2.17)

<sup>Δ</sup>SW indicates dimension across flats.



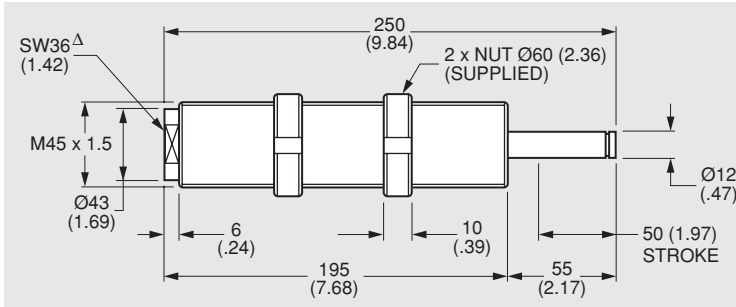


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**Stroke:** 50 mm (1.97 in.)  
**Piston Reset Time:** 1 sec.  
**Min. Resetting Force:** 60 N (13.49 lbf)  
**Max. Resetting Force:** 90 N (20.23 lbf)  
**Weight:** 2 kg (70.5 oz.)



**NOTE:** Dimensions in ( ) are inch.  
<sup>Δ</sup>SW indicates dimension across flats.

## Metric

Catalog Number	Stop	Max. Energy Absorption per Stroke J (lbf · in.)	Max. Energy Absorption per Hour J (lbf · in./h)	Min. Impact Speed m/s (ft./s)	Max. Impact Speed m/s (ft./s)	Effective Mass*	
						Max. kg (lb.)	Min. kg (lb.)
V20S45M150LH	Power Stop	1300 (11505)	190000 (1681500)	0.2 (.66)	0.7 (2.30)	65000 (143299)	5306 (11698)
V20S45M150LM				0.6 (1.97)	1.6 (5.25)	7222 (15922)	1016 (2240)
V20S45M150LS				1.4 (4.59)	3.5 (11.48)	1327 (2926)	212 (467.4)
V20S45M150LHN	Emergency Stop	3000 (26550)	—	0.2 (.66)	0.7 (2.30)	150000 (330690)	12245 (26995)
V20S45M150LMN				0.6 (1.97)	1.6 (5.25)	16667 (36744)	2344 (5168)
V20S45M150LSN				1.4 (4.59)	3.5 (11.48)	3061 (6748)	490 (1080)

\*As comparative figure to conventional shock absorbers. All data measured at 20% safety.

### Accessories

Head	Stop Sleeves	Cooler Nut
Steel <b>V21S01MMKS45</b> Steel with Plastic Insert** <b>V21S01MMKK45</b>	Vanadium Steel Alloy <b>V21S04MSS45150</b>	Aluminum <b>V21S03MCN45150</b> <b>V21S03MCN45150L<sup>Δ</sup></b> (Longer Length)

<sup>Δ</sup>SW indicates dimension across flats.



# Shock Absorbers Technical Information

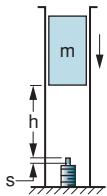
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## Metric



### SHOCK ABSORBERS - FORMULAS AND CALCULATION EXAMPLES

$W_1$	Kinetic energy per stroke; mass load only	in Nm	HM	Holding moment factor (normal 2.5)	1 to 2.5
$W_2$	Energy/work of propelling force per stroke	in Nm	M	Torque	in Nm
$W_3$	Total energy per stroke ( $W_1 + W_2$ )	in Nm	J	Mass inertia moment	in kgm <sup>2</sup>
$W_4$	Total energy per hour ( $W_3 \times n$ )	in Nm/h	g	Gravity constant = 9.81	in m/s <sup>2</sup>
$m_e$	Effective mass	in kg	h	Falling height without shock absorber stroke	in m
m	Mass to be braked	in kg	s	Stroke of shock absorber	in m
v	Final velocity of mass	in m/s	L/R/r	Radius	in m
$v_D$	Shock absorber impact velocity	in m/s	Q	Countervailing force/supporting force	in N
w	Angular velocity	in 1/s	$\mu$	Friction coefficient	
F	Additional propelling force	in N	t	Braking time	in s
n	Number of strokes per hour	in 1/h	$\beta$	Angle	in °
P	Motor drive	in kW			



#### Free Falling Mass

##### Formula:

$$W_1 = m \times g \times h$$

$$W_2 = m \times g \times s$$

$$W_3 = W_1 + W_2$$

$$W_4 = W_3 \times n$$

$$v_D = \sqrt{2 \times g \times h}$$

$$m_e = 2 \times W_3 / v_D^2$$

##### Example:

$$m = 10 \text{ kg}$$

$$h = 0.3 \text{ m}$$

$$n = 120 \text{ 1/h}$$

$$s = 0.02 \text{ m}$$

$$W_1 = 10 \times 0.3 \times 9.81 = 29.43 \text{ Nm}$$

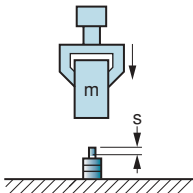
$$W_2 = 10 \times 9.81 \times 0.02 = 1.962 \text{ Nm}$$

$$W_3 = 29.43 + 1.962 = 31.392 \text{ Nm}$$

$$W_4 = 31.392 \times 120 = 3767.04 \text{ Nm/h}$$

$$v_D = \sqrt{2 \times 9.81 \times 0.3} = 2.426 \text{ m/s}$$

$$m_e = 2 \times 31.392 / 2.426^2 = 25.88 \text{ kg}$$



#### Free Falling Mass without Propelling Force

##### Formula:

$$W_1 = m \times v^2 \times 0.5$$

$$W_2 = m \times g \times s$$

$$W_3 = W_1 + W_2$$

$$W_4 = W_3 \times n$$

$$v_D = v$$

$$m_e = 2 \times W_3 / v_D^2$$

##### Example:

$$m = 13000 \text{ kg}$$

$$v = 2 \text{ m/s}$$

$$s = 0.22 \text{ m}$$

$$n = 30 \text{ 1/h}$$

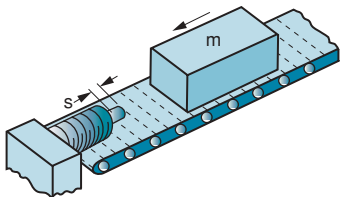
$$W_1 = 13000 \times 2^2 \times 0.5 = 26000 \text{ Nm}$$

$$W_2 = 13000 \times 9.81 \times 0.22 = 28056.6 \text{ Nm}$$

$$W_3 = 26000 + 28056.6 = 54056.6 \text{ Nm}$$

$$W_4 = 54056.6 \times 30 = 1621698 \text{ Nm/h}$$

$$m_e = 2 \times 54056.6 / 2^2 = 27028.3 \text{ kg}$$



#### Mass on a Conveyor Belt

##### Formula:

$$W_1 = m \times v^2 \times 0.5$$

$$W_2 = m \times \mu \times g \times s$$

$$W_3 = W_1 + W_2$$

$$W_4 = W_3 \times n$$

$$v_D = v$$

$$m_e = 2 \times W_3 / v_D^2$$

##### Example:

$$m = 190 \text{ kg}$$

$$v = 1.8 \text{ m/s}$$

$$n = 170 \text{ 1/h}$$

$$\mu = 0.2 \text{ (Stahl/Gu\beta)}$$

$$s = 0.04 \text{ m}$$

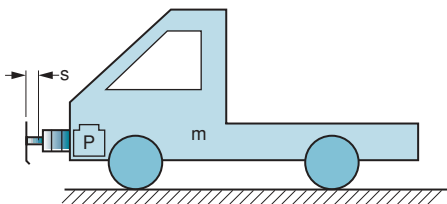
$$W_1 = 190 \times 1.8^2 \times 0.5 = 307.8 \text{ Nm}$$

$$W_2 = 190 \times 0.2 \times 9.81 \times 0.04 = 14.91 \text{ Nm}$$

$$W_3 = 307.8 + 14.91 = 322.71 \text{ Nm}$$

$$W_4 = 322.71 \times 170 = 54860 \text{ Nm}$$

$$m_e = 2 \times 322.71 / 1.8^2 = 199.2 \text{ kg}$$



#### Mass with Motor Drive

##### Formula:

$$W_1 = m \times v^2 \times 0.5$$

$$W_2 = 1000 \times P \times HM \times s / v$$

$$W_3 = W_1 + W_2$$

$$W_4 = W_3 \times n$$

$$v_D = v$$

$$m_e = 2 \times W_3 / v_D^2$$

##### Example:

$$m = 980 \text{ kg}$$

$$v = 1.7 \text{ m/s}$$

$$HM = 2.7$$

$$P = 6 \text{ kW}$$

$$n = 80 \text{ 1/h}$$

$$s = 0.11 \text{ m}$$

$$W_1 = 980 \times 1.7^2 \times 0.5 = 1416.1 \text{ Nm}$$

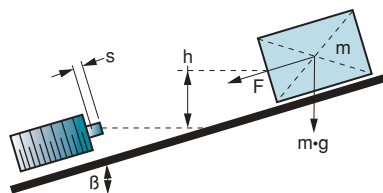
$$W_2 = 1000 \times 6 \times 2.7 \times 0.11 / 1.7 = 1048.24 \text{ Nm}$$

$$W_3 = 1416.1 + 1048.24 = 2464.34 \text{ Nm}$$

$$W_4 = 2464.34 \times 80 = 197146.8 \text{ Nm}$$

$$m_e = 2 \times 2464.34 / 1.7^2 = 1705.43 \text{ kg}$$

Note: Add rotational energies of motor, coupling and gear, if not negligible, to  $W_1$ .



#### Mass on an Incline

##### Formula:

$$W_1 = m \times g \times h = m \times v_D^2 \times 0.5$$

$$W_2 = m \times g \times \sin\beta \times s$$

$$W_3 = W_1 + W_2$$

$$W_4 = W_3 \times n$$

$$v_D = \sqrt{2 \times g \times h}$$

$$m_e = 2 \times W_3 / v_D^2$$

##### a. with Propelling Force Downward:

$$W_2 = (F - m \times g \times \sin\beta) \times s$$

##### b. with Propelling Force Upward:

$$W_2 = (F + m \times g \times \sin\beta) \times s$$

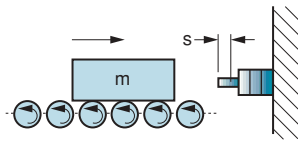
Continued on the next page



# Shock Absorbers Technical Information

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

## Metric



### Mass without Propelling Force

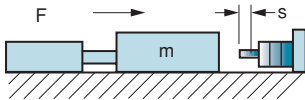
#### Formula:

$$\begin{aligned} W_1 &= m \times v^2 \times 0.5 \\ W_2 &= 0 \\ W_3 &= W_1 + W_2 \\ W_4 &= W_3 \times n \\ v_D &= v \\ m_e &= m \end{aligned}$$

#### Example:

$$\begin{aligned} m &= 200 \text{ kg} \\ v &= 3 \text{ m/s} \\ n &= 1000 \text{ 1/h} \\ s &= 0.01 \text{ m} \end{aligned}$$

$$\begin{aligned} W_1 &= 200 \times 3^2 \times 0.5 = 900 \text{ Nm} \\ W_2 &= 0 \\ W_3 &= 900 + 0 = 900 \text{ Nm} \\ W_4 &= 900 \times 1000 = 900000 \text{ Nm/h} \end{aligned}$$



### Mass with Propelling Force

#### Formula:

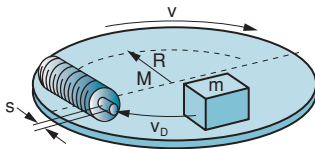
$$\begin{aligned} W_1 &= m \times v^2 \times 0.5 \\ W_2 &= F \times s \\ W_3 &= W_1 + W_2 \\ W_4 &= W_3 \times n \\ v_D &= v \\ m_e &= 2 \times W_3 / v_D^2 \\ W_2 &= (F - m \times g) \times s \\ W_2 &= (F + m \times g) \times s \end{aligned}$$

#### Example:

$$\begin{aligned} m &= 30 \text{ kg} \\ v &= 1.9 \text{ m/s} \\ F &= 300 \text{ N} \\ n &= 800 \text{ 1/h} \\ s &= 0.03 \text{ m} \end{aligned}$$

$$\begin{aligned} W_1 &= 30 \times 1.9^2 \times 0.5 = 54.15 \text{ Nm} \\ W_2 &= 300 \times 0.03 = 9 \text{ Nm} \\ W_3 &= 54.15 + 9 = 63.15 \text{ Nm} \\ W_4 &= 63.15 \times 800 = 50520 \text{ Nm/h} \\ m_e &= 2 \times 63.15 / 1.9^2 = 34.97 \text{ kg} \end{aligned}$$

2.1 with vertical motion upward:  
2.2 with vertical motion downward



### Rotary Table with Horizontal or Vertical Propelling Moment

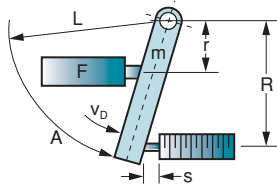
#### Formula:

$$\begin{aligned} W_1 &= m \times v^2 \times 0.25 = 0.5 \times J \times w^2 \\ W_2 &= m \times s / R \\ W_3 &= W_1 + W_2 \\ W_4 &= W_3 \times n \\ v_D &= v \times R / L = w \times R \\ m_e &= 2 \times W_3 / v_D^2 \end{aligned}$$

#### Example:

$$\begin{aligned} m &= 1200 \text{ kg} \\ v &= 1.3 \text{ m/s} \\ M &= 1200 \text{ Nm} \\ s &= 0.04 \text{ m} \\ L &= 1.35 \text{ m} \\ R &= 0.9 \text{ m} \\ n &= 90 \text{ 1/h} \end{aligned}$$

$$\begin{aligned} W_1 &= 1200 \times 1.3^2 \times 0.25 = 507 \text{ Nm} \\ W_2 &= 1200 \times 0.04 / 0.9 = 53.3 \text{ Nm} \\ W_3 &= 507 + 53.3 = 560.33 \text{ Nm} \\ W_4 &= 560.33 \times 90 = 50429.7 \text{ Nm/h} \\ v_D &= 1.3 \times 0.9 / 1.35 = 0.86 \text{ m/s} \\ m_e &= 2 \times 560.33 / 0.86^2 = 1515.22 \text{ kg} \end{aligned}$$



### Swinging Mass with Propelling Force

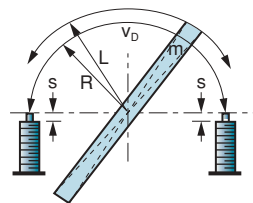
#### Formula:

$$\begin{aligned} W_1 &= m \times v^2 \times 0.18 = 0.5 \times J \times w^2 \\ W_2 &= F \times r \times s / R = M \times s / R \\ W_3 &= W_1 + W_2 \\ W_4 &= W_3 \times n \\ v_D &= v \times R / L = w \times R \\ m_e &= 2 \times W_3 / v_D^2 \end{aligned}$$

#### Example:

$$\begin{aligned} m &= 1500 \text{ kg} \\ v &= 3 \text{ m/s} \\ F &= 6000 \text{ N} \\ s &= 0.05 \text{ m} \\ r &= 0.7 \text{ m} \\ R &= 0.9 \text{ m} \\ L &= 1.5 \text{ m} \\ n &= 700 \text{ 1/h} \end{aligned}$$

$$\begin{aligned} W_1 &= 1500 \times 3^2 \times 0.18 = 2430 \text{ Nm} \\ W_2 &= 6000 \times 0.7 \times 0.05 / 0.9 = 233.33 \text{ Nm} \\ W_3 &= 2430 + 233.33 = 2663.33 \text{ Nm} \\ W_4 &= 2663.33 \times 700 = 1864333 \text{ Nm/h} \\ v_D &= 3 \times 0.9 / 1.5 = 1.8 \text{ m/s} \\ m_e &= 2 \times 2663.33 / 1.8^2 = 1625.51 \text{ kg} \end{aligned}$$



### Swinging Mass with Propelling Moment (e.g. Turning Device)

#### Formula:

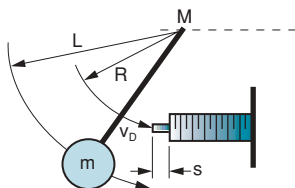
$$\begin{aligned} W_1 &= m \times v^2 \times 0.18 = 0.5 \times J \times w^2 \\ W_2 &= F \times r \times s / R = M \times s / R \\ W_3 &= W_1 + W_2 \\ W_4 &= W_3 \times n \\ v_D &= v \times R / L = w \times R \\ m_e &= 2 \times W_3 / v_D^2 \end{aligned}$$

#### Example:

$$\begin{aligned} J &= 41 \text{ kgm}^2 \\ w &= 2 \text{ 1/s} \\ M &= 400 \text{ Nm} \\ s &= 0.025 \text{ m} \\ L &= 1.8 \text{ m} \\ R &= 0.9 \text{ m} \\ n &= 1300 \text{ 1/h} \end{aligned}$$

$$\begin{aligned} W_1 &= 0.5 \times 41 \times 2^2 = 82 \text{ Nm} \\ W_2 &= 400 \times 0.025 / 0.9 = 11.1 \text{ Nm} \\ W_3 &= 82 + 11.1 = 93.1 \text{ Nm} \\ W_4 &= 93.1 \times 1,300 = 121044 \text{ Nm/h} \\ v_D &= 2 \times 0.9 = 1.8 \text{ m/s} \\ m_e &= 2 \times 93.1 / 1.8^2 = 57.47 \text{ kg} \end{aligned}$$

**Note:** Please check impact angle long = s/R (see example 6.2)



### Swinging Mass with Propelling Moment

#### Formula:

$$\begin{aligned} W_1 &= m \times v^2 \times 0.5 = 0.5 \times J \times w^2 \\ W_2 &= M \times s / R \\ W_3 &= W_1 + W_2 \\ W_4 &= W_3 \times n \\ v_D &= v \times R / L = w \times R \\ m_e &= 2 \times W_3 / v_D^2 \end{aligned}$$

#### Example:

$$\begin{aligned} m &= 30 \text{ kg} \\ v &= 1.5 \text{ m/s} \\ M &= 60 \text{ Nm} \\ R &= 0.6 \text{ m} \\ L &= 0.9 \text{ m} \\ n &= 1600 \text{ 1/h} \\ s &= 0.02 \text{ m} \end{aligned}$$

$$\begin{aligned} W_1 &= 30 \times 1.5^2 \times 0.5 = 33.75 \text{ Nm} \\ W_2 &= 60 \times 0.02 / 0.6 = 2 \text{ Nm} \\ W_3 &= 33.75 + 2 = 35.75 \text{ Nm} \\ W_4 &= 35.75 \times 1600 = 57200 \text{ Nm} \\ v_D &= 1.5 \times 0.6 / 0.9 = 1 \text{ m/s} \\ m_e &= 2 \times 35.75 / 1^2 = 71.5 \text{ kg} \end{aligned}$$

Counterv. force/supporting force Q (N)  
Braking Time t (s)  
Retardation a (m/s<sup>2</sup>)

Applies for all examples:  $Q = 1.2 \times W_3 / s$   
Applies for all examples:  $t = 2.6 \times s / v_D$   
Applies for all examples:  $a = 0.6 \times v_D^2 / s$

**Note:** If used in a damp environment, please consult our engineering department.



# Shock / Vibration Isolation Application Sheet

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

Completed By: \_\_\_\_\_ Date: \_\_\_\_\_

The following data will help us to determine your needs to meet your shock and vibration requirements. If a drawing cannot be included, please include a sketch with this form.

**Company Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_  
\_\_\_\_\_

**Contact Name/Position:** \_\_\_\_\_

**Telephone:** \_\_\_\_\_ **FAX:** \_\_\_\_\_

**e-mail:** \_\_\_\_\_

## Technical Requirements

Equipment Description: \_\_\_\_\_

Equipment Weight (lbs. or kg.): \_\_\_\_\_ Temperature Range (°F or °C): Low: \_\_\_\_\_ High: \_\_\_\_\_

Excitation Source: \_\_\_\_\_ Preferred Damping Material (Circle One):

Excitation Frequency (rpm, cpm, cps or Hz): \_\_\_\_\_

Allowable Static Deflection of Isolators (inch or mm): \_\_\_\_\_

% Vibration Isolation Efficiency Desired: \_\_\_\_\_

Space Limitation if any: \_\_\_\_\_

Natural Rubber, Neoprene, Urethane,  
Sorbothane®, Vinyl Chloride Elastomeric Resin,  
Silicone Gel, Wire Mesh, Cable,  
others: \_\_\_\_\_

Examples of how to choose vibration isolators for various operating situations are given in the Vibration Mount Technical Section starting on page T1-27.

## Prototype/Production Requirements

Prototype Quantity: \_\_\_\_\_ Timing: \_\_\_\_\_

Production Forecast: \_\_\_\_\_ Timing: \_\_\_\_\_

# Bushings & Grommets



**SECTION 7**





# Finger-Flex Mounts

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

## TYPICAL INSTALLATION ARRANGEMENTS

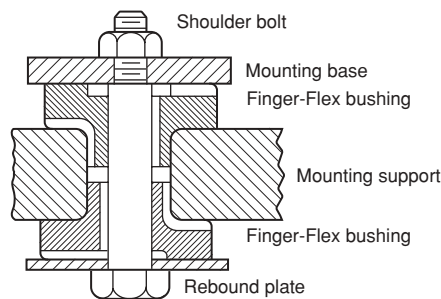
### Multiple Installations

Any number of Finger-Flex mounts can be installed in parallel to achieve greater load-carrying capacity. These mounts may also be stacked in series to meet greater deflection requirements. Separators between mounts, if used, must be designed to meet the specific requirements of the installation.

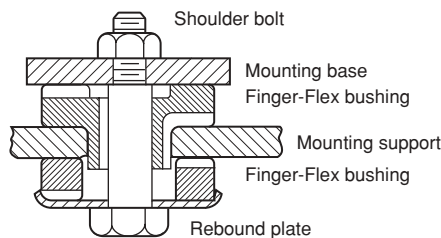
### Typical Installations

Finger-Flex mounts are used for office machines, electronic equipment, motors, air conditioning equipment, heating equipment, fans, blowers, pumps and scientific equipment.

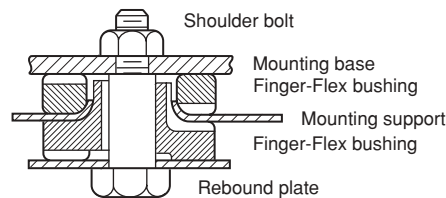
**A.**  
If the load support is 1/2 inch (12.7 mm) or more thick, two Finger-Flex bushings are generally used.



**B.**  
When the load supporting member is 1/8 inch (3.18 mm) to 1/2 inch (12.7 mm) thick, the standard bushing and ring combination is most suitable.



**C.**  
If the load supporting member is less than 1/8 inch (3.18 mm) thick, the metal surrounding the mounting hole should be turned up. This provides additional mounting area for the bushing.



Rubber parts used are similar to type **V10R 4-1504 & V10R 4-1505** combination. The difference is that the flange of the rubber bushing within this assembled mounting has fingers on only one of its surfaces. The ring member absorbs both vibration and shock.





# Finger-Flex Mounts – To 12 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: Natural Rubber

• FOR LOADS UP OF 4 TO 12 POUNDS (1.8 TO 5.4 kgf)



Fig. 1 RING STYLE

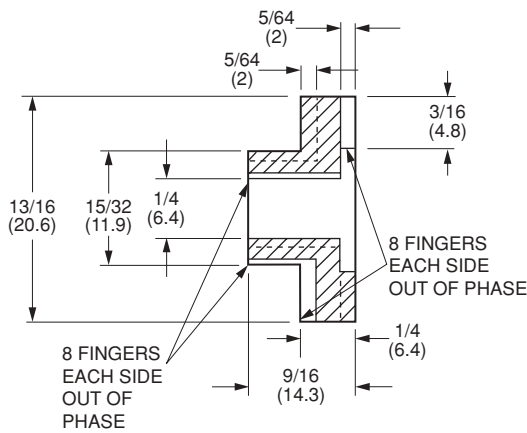
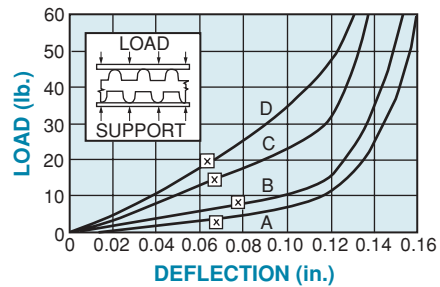
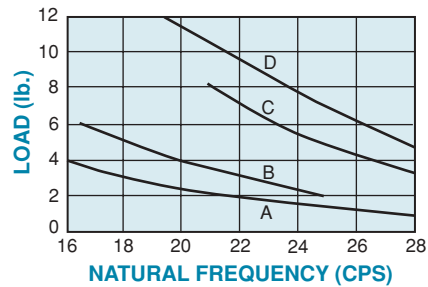


Fig. 2 BUSHING STYLE

NOTE: Dimensions in ( ) are mm.



Deflection below the X are considered safe practice for static loads; data above the X are useful for calculating deflections under dynamic loads.



Catalog Number	Fig. No.	Hardness Durometer	Compression	Forcing Frequency in Cycles per Minute			
			Maximum Load lb. (kgf)	2400	2700	3000	3300
			Minimum Load for 81% Isolation lb. (kgf)				
V10R 4-1500A	1	30	4 (1.8)	4 (1.8)	3 (1.4)	2 (0.9)	—
V10R 4-1500B		40	6 (2.7)	6 (2.7)	4 (1.8)	3 (1.4)	—
V10R 4-1500C		50	9 (4.1)	9 (4.1)	6 (2.7)	4 (1.8)	3 (1.4)
V10R 4-1500D		60	12 (5.4)	12 (5.4)	9 (4.1)	7 (3.2)	5 (2.3)
V10R 4-1501A	2	30	4 (1.8)	4 (1.8)	3 (1.4)	2 (0.9)	—
V10R 4-1501B		40	6 (2.7)	6 (2.7)	4 (1.8)	3 (1.4)	—
V10R 4-1501C		50	9 (4.1)	9 (4.1)	6 (2.7)	4 (1.8)	3 (1.4)
V10R 4-1501D		60	12 (5.4)	12 (5.4)	9 (4.1)	7 (3.2)	5 (2.3)



# Finger-Flex Mounts – To 25 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: Natural Rubber

• FOR LOADS UP OF 10 TO 25 POUNDS (4.5 TO 11.3 kgf)

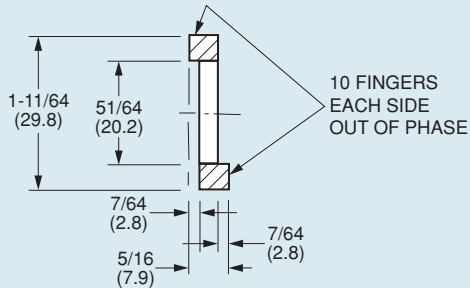


Fig. 1 RING STYLE

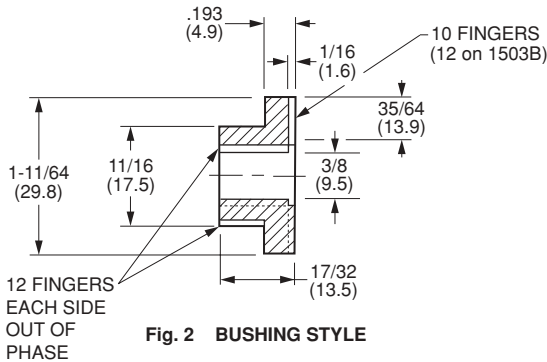
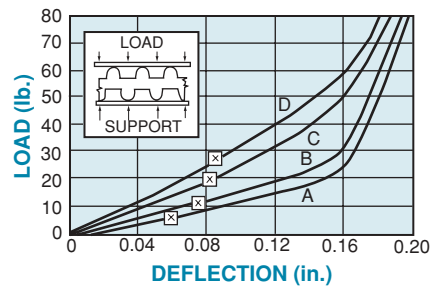
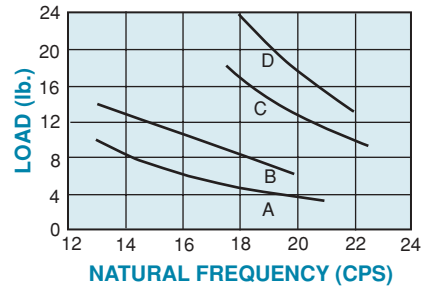


Fig. 2 BUSHING STYLE

NOTE: Dimensions in ( ) are mm.



Deflections below the X are considered safe practice for static loads; data above the X are useful for calculating deflections under dynamic loads.



Catalog Number	Fig. No.	Hardness Durometer	Compression	Forcing Frequency in Cycles per Minute				
			Maximum Load lb. (kgf)	1750	2000	2250	2500	2750
				Minimum Load for 81% Isolation lb. (kgf)				
V10R 4-1502A	1	30	10 (4.5)	10 (4.5)	7 (3.2)	5 (2.3)	4 (1.8)	3 (1.4)
V10R 4-1502B		40	13 (5.9)	13 (5.9)	9 (4.1)	7 (3.2)	5 (2.3)	4 (1.8)
V10R 4-1502C		50	18 (8.2)	18 (8.2)	14 (6.4)	10 (4.5)	8 (3.6)	6 (2.7)
V10R 4-1502D		60	25 (11.3)	25 (11.3)	20 (9.1)	13 (5.9)	10 (4.5)	8 (3.6)
V10R 4-1503A	2	30	10 (4.5)	10 (4.5)	7 (3.2)	5 (2.3)	4 (1.8)	3 (1.4)
V10R 4-1503B		40	13 (5.9)	13 (5.9)	9 (4.1)	7 (3.2)	5 (2.3)	4 (1.8)
V10R 4-1503C		50	18 (8.2)	18 (8.2)	14 (6.4)	10 (4.5)	8 (3.6)	6 (2.7)
V10R 4-1503D		60	25 (11.3)	25 (11.3)	20 (9.1)	13 (5.9)	10 (4.5)	8 (3.6)



# Finger-Flex Mounts – To 37 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: Natural Rubber

• FOR LOADS OF 14 TO 37 POUNDS (6.4 TO 16.9 kgf)

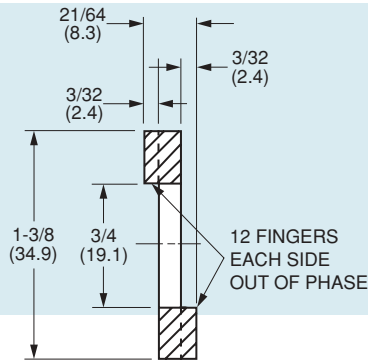


Fig. 1 RING STYLE

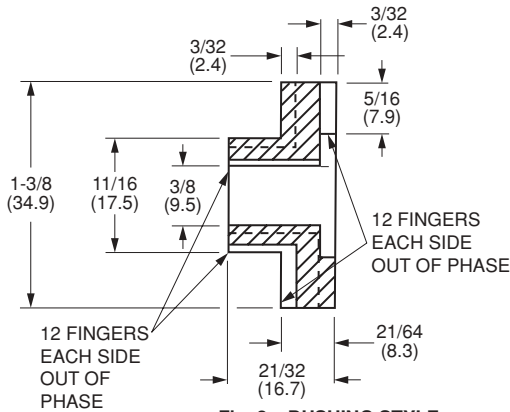
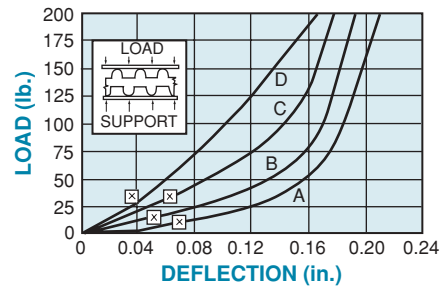
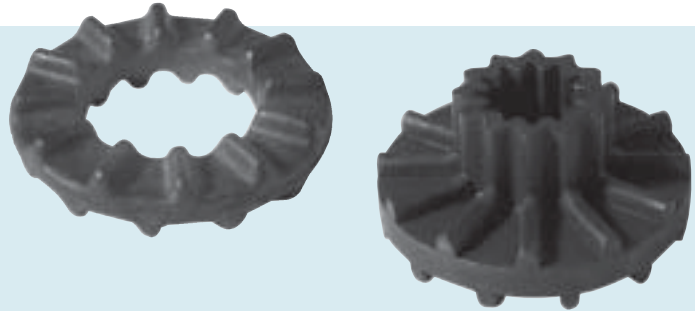
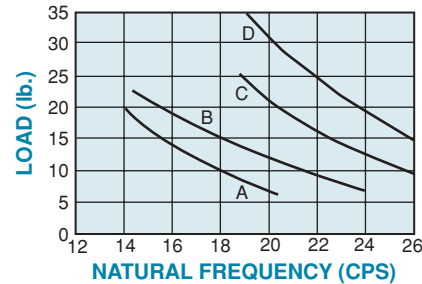


Fig. 2 BUSHING STYLE

NOTE: Dimensions in ( ) are mm.



Deflections below the X are considered safe practice for static loads; data above the X are useful for calculating deflections under dynamic loads.



Catalog Number	Fig. No.	Hardness Durometer	Compression Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute				
				2000	2250	2500	2750	3000
				Minimum Load for 81% Isolation lb. (kgf)				
V10R 4-1504A	1	30	14 (6.4)	—	12 (5.4)	9 (4.1)	7 (3.2)	5 (2.3)
V10R 4-1504B		40	19 (8.6)	19 (8.6)	14 (6.4)	10 (4.5)	8 (3.6)	6 (2.7)
V10R 4-1504C		50	27 (12.2)	—	25 (11.3)	19 (8.6)	16 (7.3)	13 (5.9)
V10R 4-1504D		60	37 (16.8)	—	—	32 (14.5)	25 (11.3)	21 (9.5)
V10R 4-1505A	2	30	14 (6.4)	—	12 (5.4)	9 (4.1)	7 (3.2)	5 (2.3)
V10R 4-1505B		40	19 (8.6)	19 (8.6)	14 (6.4)	10 (4.5)	8 (3.6)	6 (2.7)
V10R 4-1505C		50	27 (12.2)	—	25 (11.3)	19 (8.6)	16 (7.3)	13 (5.9)
V10R 4-1505D		60	37 (16.8)	—	—	32 (14.5)	25 (11.3)	21 (9.5)



# Finger-Flex Mounts – To 80 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: Natural Rubber

• FOR LOADS OF 35 TO 80 POUNDS (15.9 TO 36.3 kgf)

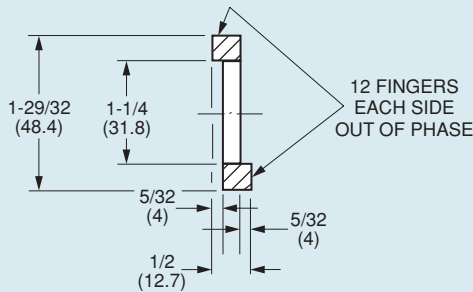


Fig. 1 RING STYLE

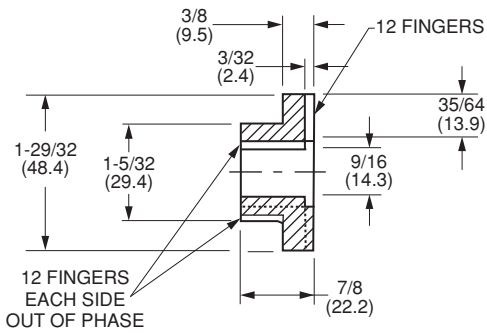
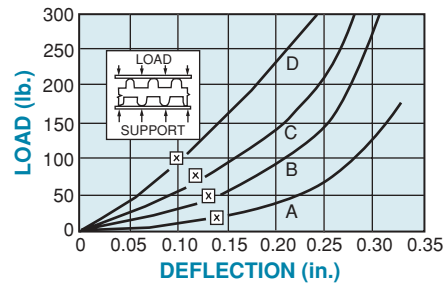
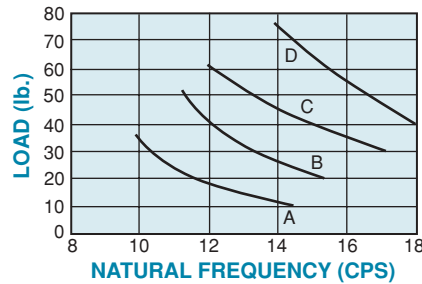


Fig. 2 BUSHING STYLE

NOTE: Dimensions in ( ) are mm.



Deflections below the X are considered safe practice for static loads; data above the X are useful for calculating deflections under dynamic loads.



Catalog Number	Fig. No.	Hardness Durometer	Compression Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute				
				1500	1750	2000	2250	2500
				Minimum Load for 81% Isolation lb. (kgf)				
V10R 4-1506A	1	30	35 (15.9)	30 (13.6)	17 (7.7)	13 (5.9)	10 (4.5)	8 (3.6)
V10R 4-1506B		40	50 (22.7)	50 (22.7)	24 (10.9)	18 (8.2)	14 (6.4)	12 (5.4)
V10R 4-1506C		50	65 (29.5)	—	40 (18.1)	31 (14.1)	24 (10.9)	20 (9.1)
V10R 4-1506D		60	80 (36.3)	—	76 (34.5)	56 (25.4)	43 (19.5)	33 (15)
V10R 4-1507A	2	30	35 (15.9)	30 (13.6)	17 (7.7)	13 (5.9)	10 (4.5)	8 (3.6)
V10R 4-1507B		40	50 (22.7)	50 (22.7)	24 (10.9)	18 (8.2)	14 (6.4)	12 (5.4)
V10R 4-1507C		50	65 (29.5)	—	40 (18.1)	31 (14.1)	24 (10.9)	20 (9.1)
V10R 4-1507D		60	80 (36.3)	—	76 (34.5)	56 (25.4)	43 (19.5)	33 (15)



# Finger-Flex Mounts – To 350 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: Natural Rubber

• FOR LOADS OF 120 TO 350 POUNDS (54.4 TO 158.8 kgf)

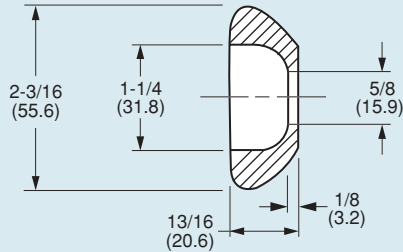


Fig. 1 RING STYLE

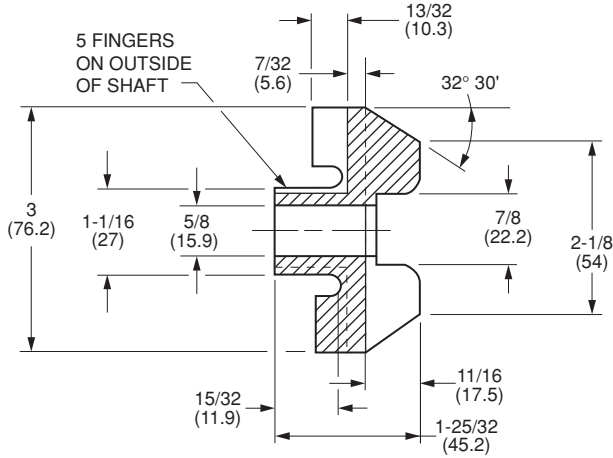
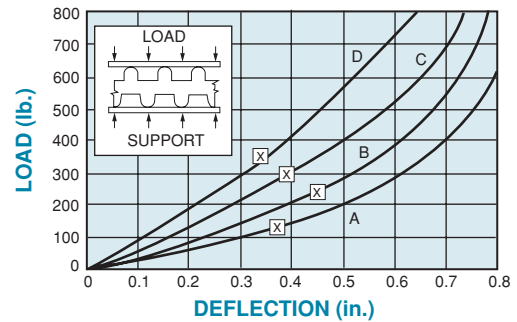
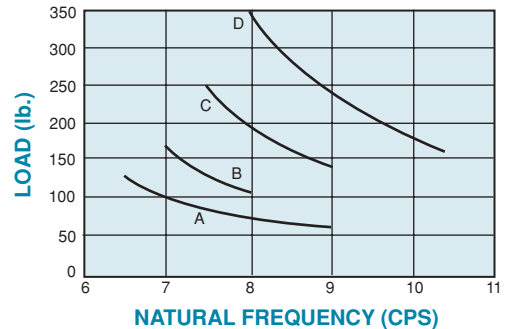


Fig. 2 BUSHING STYLE

NOTE: Dimensions in ( ) are mm.



Deflections below the X are considered safe practice for static loads; data above the X are useful for calculating deflections under dynamic loads.



Catalog Number	Fig. No.	Hardness Durometer	Compression Maximum Load lb. (kgf)	Forcing Frequency in Cycles per Minute				
				900	1000	1250	1500	1750
V10R 4-1508C	1	50	250 (113.4)	250 (113.4)	178 (80.7)	105 (47.6)	65 (29.5)	48 (21.8)
V10R 4-1508D		60	350 (158.8)	324 (147)	242 (109.8)	141 (64)	93 (42.2)	66 (29.9)
V10R 4-1509A	2	30	120 (54.4)	—	98 (44.5)	46 (20.9)	30 (13.6)	22 (10)
V10R 4-1509B		40	160 (72.6)	160 (72.6)	104 (47.2)	67 (30.4)	46 (20.9)	34 (15.4)
V10R 4-1509C		50	250 (113.4)	250 (113.4)	178 (80.7)	105 (47.6)	65 (29.5)	48 (21.8)
V10R 4-1509D		60	350 (158.8)	324 (147)	242 (109.8)	141 (64)	93 (42.2)	66 (29.9)



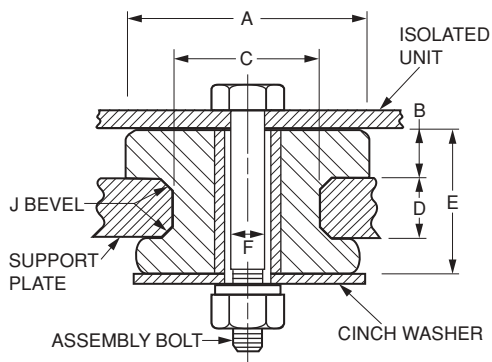
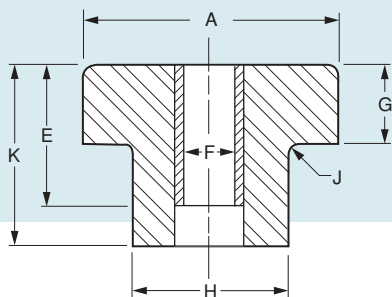
# Bolt Mounts – Solo Unitized

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

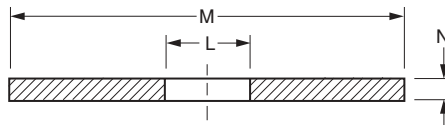
• **MATERIAL:** Outer Body – Natural Rubber Load-Carrying Member  
Spacer – Steel, Tubular Rolled

• **SOLO TYPE**  
• **FOR LOADS OF 60 TO 1300 POUNDS (27.2 TO 590 kgf)**

**PREASSEMBLY DIMENSIONS**



**SOLO MOUNTING**



**CINCH WASHER**  
RECOMMENDED DIMENSIONS

**INSTALLATION:**

1. Lubricate mount and socket with water or rubber lubricant.
2. Insert into socket, hand rotate with axial force.
3. If necessary, use driving bolt. Care must be taken that the driving bolt does not overhang the steel sleeve O.D.

**SELECTION CRITERIA:**

Calculate static load. Select a mount of equal or greater capacity. For dynamic loads greater than 3X static load, select next larger size.

**SELECTION GUIDE AND SPECIFICATIONS**

Catalog Number	Nominal Load Rating Axial lb. (kgf)	Nominal Deflection Rating Axial in. (mm)	A	B	C	D	E	F	G	H	J	K	L	M	N (min)
V10Z42-1010	60 (27.2)	.010 (0.25)	1.00 (25.4)	.17 (4.3)	.75 (19.1)	.13 (3.3)	.44 (11.2)	.38 (9.7)	.18 (4.6)	.77 (19.6)	.03 (0.8)	.55 (14)	.38 (9.7)	1.00 (25.4)	.09 (2.3)
V10Z42-2000	125 (56.7)	.018 (0.46)	1.09 (27.7)	.19 (4.8)	.75 (19.1)	.31 (7.9)	.69 (17.5)	.38 (9.7)	.21 (5.3)	.78 (19.8)	.03 (0.8)	.96 (24.4)	.38 (9.7)	1.12 (28.4)	.09 (2.3)
V10Z42-4000	200 (90.7)	.015 (0.38)	2.00 (50.8)	.48 (12.2)	1.25 (31.8)	.62 (15.7)	1.38 (35.1)	.52 (13.2)	.52 (13.2)	1.31 (33.3)	.06 (1.5)	2.18 (55.4)	.52 (13.2)	2.00 (50.8)	.12 (3)
V10Z42-4040		.035 (0.89)		.46 (11.7)		.25 (6.4)	1.00 (25.4)	.39 (9.9)		1.32 (33.5)		1.30 (33)	.38 (9.7)		
V10Z42-4050		.030 (0.76)		.46 (11.7)		.25 (6.4)	1.00 (25.4)	.64 (16.3)		1.25 (31.8)		1.30 (33)	.64 (16.3)		
V10Z42-5000	425 (192.8)	.020 (0.51)	2.01 (51.1)	.56 (14.2)	1.50 (38.1)	.75 (19.1)	1.71 (43.4)	.64 (16.3)	.62 (15.7)	1.52 (38.6)	.06 (1.5)	2.12 (53.8)	.64 (16.3)	2.50 (63.5)	.15 (3.8)
V10Z42-6000	500 (226.8)	.030 (0.76)	3.00 (76.2)	.71 (18)	1.81 (46)	.93 (23.6)	2.00 (50.8)	.64 (16.3)	.81 (20.6)	1.81 (46)	.12 (3)	2.42 (61.5)	.64 (16.3)	3.00 (76.2)	.19 (4.8)
V10Z42-6020				.76 (19.3)		.50 (12.7)	1.56 (39.6)					1.97 (50)			
V10Z42-7000	900 (408.2)	.075 (1.91)	3.75 (95.3)	.94 (23.9)	2.00 (50.8)	.75 (19.1)	2.12 (53.8)	.77 (19.6)	1.16 (29.5)	2.06 (52.3)	.09 (2.3)	2.66 (67.6)	.77 (19.6)	3.70 (94)	.25 (6.4)
V10Z42-8020	1300 (590)	.030 (0.76)	4.53 (115.1)	1.12 (28.4)	2.75 (69.9)	1.75 (44.5)	3.37 (85.6)	1.06 (26.9)	1.22 (31)	2.75 (69.9)	.12 (3)	4.34 (110.2)	1.06 (26.9)	4.50 (114.3)	.25 (6.4)

NOTE: Dimensions in ( ) are mm.





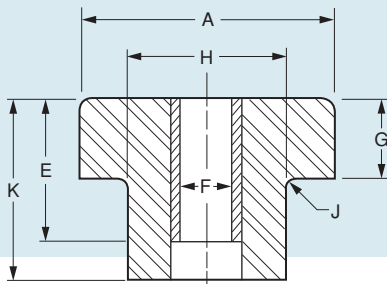
# Bolt Mounts – Tandem Unitized

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

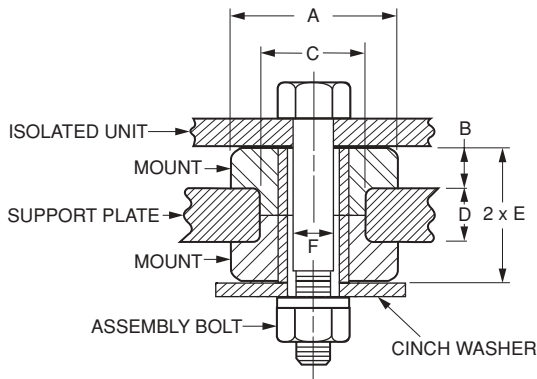
• **MATERIAL:** Outer Body – Natural Rubber Load-Carrying Member  
Spacer – Steel, Tubular Rolled

• **TANDEM TYPE**  
• **FOR LOADS OF 150 TO 900 POUNDS (68 TO 408.2 kgf)**

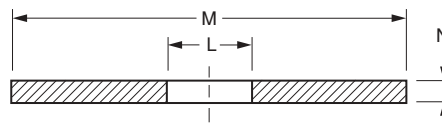
**PREASSEMBLY DIMENSIONS**



SHOWN FOR  
MOUNTING  
ORIENTATION



**TANDEM MOUNTING**



**CINCH WASHER**  
RECOMMENDED DIMENSIONS

**INSTALLATION:**

1. Lubricate mount and socket with water or rubber lubricant.
2. Insert into socket, hand rotate with axial force.
3. If necessary, use driving bolt. Care must be taken that the driving bolt does not overhang the steel sleeve O.D.

**SELECTION CRITERIA:**

Calculate static load. Select a mount of equal or greater capacity. For dynamic loads greater than 3X static load, select next larger size.

**SELECTION GUIDE AND SPECIFICATIONS**

Catalog Number	Nominal Load Rating Axial lb. (kgf)	Nominal Deflection Rating Axial in. (mm)	A	B	C	D	E	F	G	H	J	K	L	M	N (min)
V10Z42-A3010	150 (68)	.010 (0.25)	1.78 (45.2)	.38 (9.7)	1.12 (28.4)	.38 (9.7)	.59 (15)	.52 (13.2)	.43 (10.9)	1.16 (29.5)	.03 (0.8)	.62 (15.7)	.52 (13.2)	1.75 (44.5)	.10 (2.5)
V10Z42-A5020	425 (192.8)	.015 (0.38)	2.58 (65.5)	.87 (22.1)	1.50 (38.1)	.50 (12.7)	1.05 (26.7)	.64 (16.3)	.92 (23.4)	1.62 (41.1)	.06 (1.5)	1.17 (23.7)	.64 (16.3)	2.50 (63.5)	.15 (3.8)
V10Z42-A6010	500 (226.8)	.018 (0.46)	3.00 (76.2)	.75 (19.1)	1.81 (46)	.75 (19.1)	1.16 (29.5)	.64 (16.3)	.40 (10.2)	1.85 (47)	.12 (3)	1.19 (30.2)	.64 (16.3)	3.00 (76.2)	.19 (4.8)
V10Z42-A7010	900 (408.2)	.080 (2.03)	3.75 (95.3)	.74 (18.8)	2.25 (57.2)	.75 (19.1)	1.13 (28.7)	.77 (19.6)	1.12 (28.4)	2.28 (57.9)	.12 (3)	1.50 (38.1)	.77 (19.6)	4.00 (101.6)	.25 (6.4)

SECTION 7

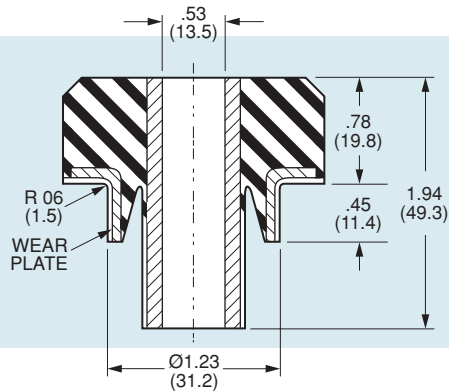


# Bolt Mounts – Ring and Bushing Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Isolator – Neoprene  
Wear Plate & Sleeve – Carbon Steel,  
Rust-Resistant Coating

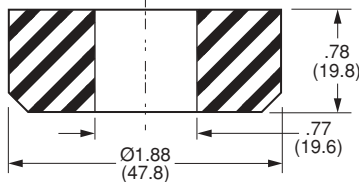
- **WEAR PLATE DESIGN IMPROVES FATIGUE LIFE AND WEAR RESISTANCE**
- **RESISTS OILS, OZONE AND MOST SOLVENTS**
- **FAIL-SAFE DESIGN WITH SNUBBING WASHER**



**New**

## APPLICATIONS

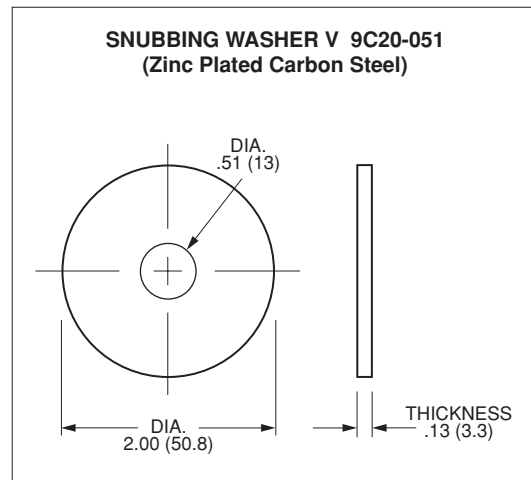
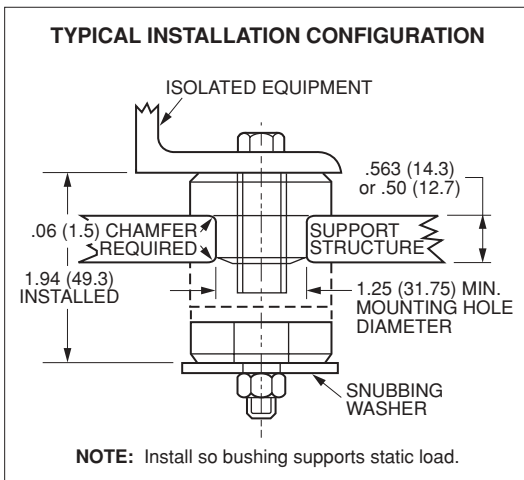
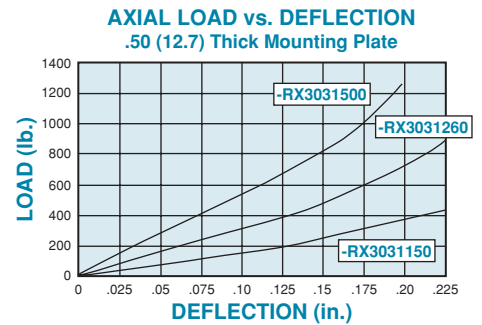
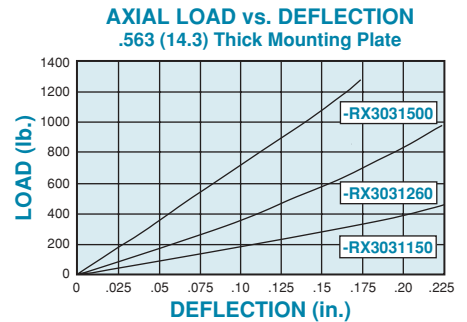
- SMALL ENGINES
- GENERATORS
- PUMPS
- RADIATORS
- OPERATOR CABS IN SEVERE ENVIRONMENTS



NOTE: Dimensions in ( ) are mm.

TEMPERATURE RANGE: -20°F to +180°F (-28.9°C to +82.2°C)

Catalog Number	Max. Load lb. (N)			
	Thick Mounting Plate Inch (mm) .563 (14.3)		Thin Mounting Plate Inch (mm) .50 (12.7)	
	Axial	Radial	Axial	Radial
V10Z82-RX3031150	150 (667)	75 (333)	80 (355)	40 (177)
V10Z82-RX3031260	260 (1156)	130 (578)	160 (711)	80 (355)
V10Z82-RX3031500	500 (2224)	250 (1112)	300 (1334)	150 (667)

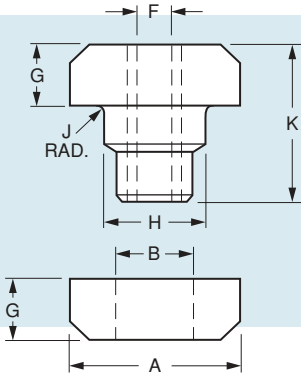




# Bolt Mounts – Ring and Bushing Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Isolator – Neoprene  
Sleeve – Carbon Steel  
Rust-Resistant Coating
- **FULL REBOUND PROTECTION** • **STRUCTURE-BORNE NOISE ATTENUATION**  
• **RESISTS OILS, OZONE AND MOST SOLVENTS**  
• **FAIL-SAFE DESIGN WITH SNUBBING WASHER**



## APPLICATIONS

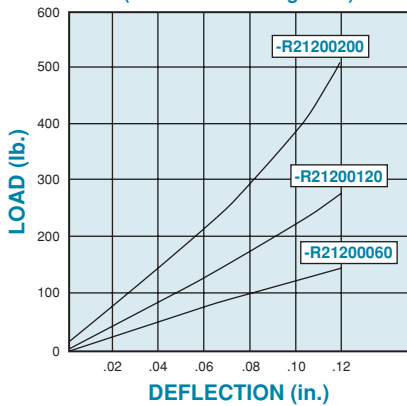
- HIGHWAY AND OFF-HIGHWAY VEHICLES: ISOLATE ENGINES, CABS, RADIATORS, BATTERY BOXES, FUEL TANKS AND ACCESSORIES
- MOTOR GENERATORS AND COMPRESSORS
- PUMPS AND CENTRIFUGES
- MARINE EQUIPMENT AND POWER PLANTS
- HVAC EQUIPMENT
- PORTABLE EQUIPMENT AND MACHINERY
- OFFICE EQUIPMENT/COMPUTERS



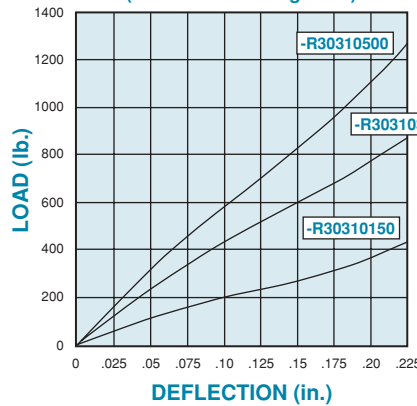
**New**

SECTION 7

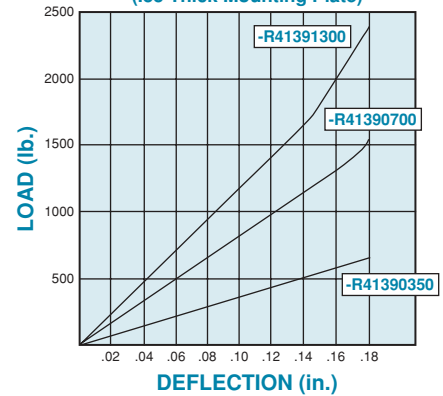
**AXIAL LOAD vs. DEFLECTION**  
(.38 Thick Mounting Plate)



**AXIAL LOAD vs. DEFLECTION**  
(.56 Thick Mounting Plate)



**AXIAL LOAD vs. DEFLECTION**  
(.88 Thick Mounting Plate)



TEMPERATURE RANGE: -20°F to +180°F (-28.9°C to +82.2°C)

Catalog Number	A in. (mm)	B in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	K in. (mm)	J in. (mm)	Durometer	Axial Static Load, Max. lb. (N)	Radial Static Load, Max. lb. (N)	Mounting Plate Thickness in. (mm)	Natural Frequency (Max. Load) Hz (ref)
V10Z82-R21200060	1.31 (33.3)	.59 (15)	.39 (9.9)	.48 (12.2)	.79 (20.1)	1.25 (31.8)	.04 (1)	40	60 (266)	30 (133)	.38 (9.7)	15
V10Z82-R21200120								56	120 (533)	40 (177)		
V10Z82-R21200200								70	200 (889)	50 (222)		
V10Z82-R30310150	1.88 (47.8)	.77 (19.6)	.53 (13.5)	.78 (19.8)	1.3 (33)	1.94 (49.3)	.06 (1.5)	48	150 (667)	60 (266)	.56 (14.2)	12
V10Z82-R30310300								64	300 (1334)	120 (533)		
V10Z82-R30310500								68	500 (2224)	200 (889)		
V10Z82-R41390350	2.55 (64.8)	1.03 (26.2)	.65 (16.5)	.9 (22.9)	1.58 (40.1)	2.43 (61.7)	.09 (2.3)	40	350 (1556)	140 (622)	.88 (22.4)	
V10Z82-R41390700								56	700 (3113)	300 (1334)		
V10Z82-R41391300								70	1300 (5782)	650 (2891)		

NOTE: For Snubbing Washers and Installation Configurations see page 7-13

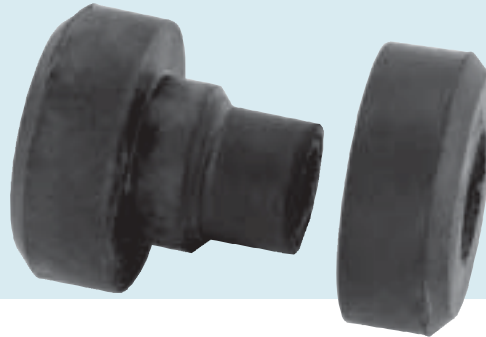
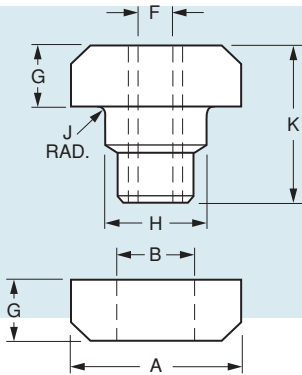


# Bolt Mounts – Ring and Bushing Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

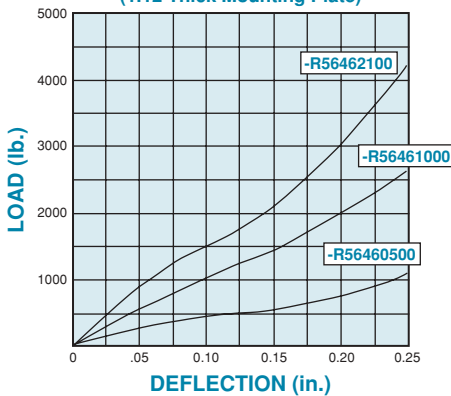
- **MATERIAL:** Isolator – Neoprene  
Sleeve – Carbon Steel, Rust-Resistant Coating
- **FULL REBOUND PROTECTION**
- **STRUCTURE-BORNE NOISE ATTENUATION**
- **RESISTS OILS, OZONE AND MOST SOLVENTS**
- **FAIL-SAFE DESIGN WITH SNUBBING WASHER**

**New**

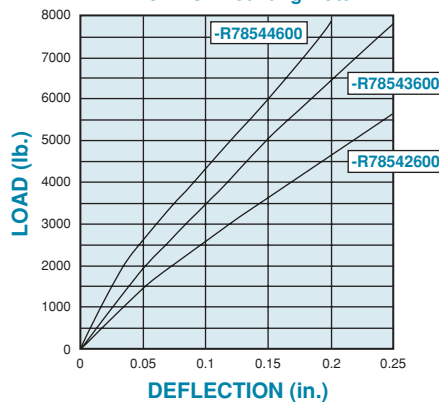


SECTION 7

**AXIAL LOAD vs. DEFLECTION**  
(1.12 Thick Mounting Plate)



**AXIAL LOAD vs. DEFLECTION**  
1.25 Thick Mounting Plate



## APPLICATIONS

- HIGHWAY AND OFF-HIGHWAY VEHICLES: ISOLATE ENGINES, CABS, RADIATORS, BATTERY BOXES, FUEL TANKS AND ACCESSORIES
- MOTOR GENERATORS AND COMPRESSORS
- PUMPS AND CENTRIFUGES
- MARINE EQUIPMENT AND POWER PLANTS
- HVAC EQUIPMENT
- PORTABLE EQUIPMENT AND MACHINERY
- OFFICE EQUIPMENT/COMPUTERS

TEMPERATURE RANGE: -20°F to +180°F (-28.9°C to +82.2°C)

Catalog Number	A in. (mm)	B in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	K in. (mm)	J in. (mm)	Durometer	Axial Static Load, Max. lb. (N)	Radial Static Load, Max. lb. (N)	Mounting Plate Thickness in. (mm)	Natural Frequency (Max. Load) Hz (ref)
V10Z82-R56460500	3.5 (88.9)	1.41 (35.8)	.93 (23.6)	1 (25.4)	2.3 (58.4)	2.88 (73.2)	.12 (3)	40	500 (2224)	200 (889)	1.12 (28.4)	10
V10Z82-R56461000								60	1000 (4448)	400 (1779)		
V10Z82-R56462100								70	2100 (9341)	900 (4003)		
V10Z82-R78542600	4.88 (124)	1.86 (47.2)	1.063 (27)	1.25 (31.8)	2.55 (64.8)	3.38 (85.9)		60	2600 (11565)	1000 (4448)	1.25 (31.8)	
V10Z82-R78543600								68	3600 (16013)	1450 (6449)		
V10Z82-R78544600								74	4600 (20461)	1900 (8451)		

NOTE: For Snubbing Washers and Installation Configurations see next page.



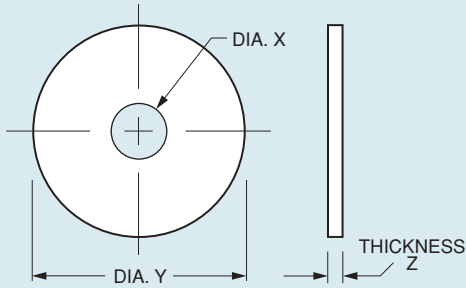
# Bolt Mounts – Washers and Installation

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: Carbon Steel - Zinc Plated

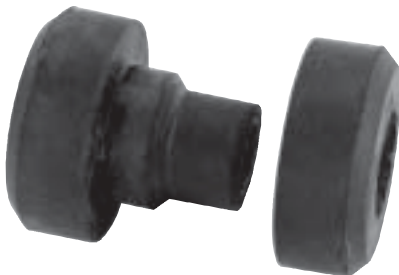
## Snubbing Washers

**New**



SECTION 7

Catalog Number	For Series V10Z82-	Dia. X in. (mm)	Dia. Y in. (mm)	Thickness Z in. (mm)
V 9C20-040	R21	.40 (10.2)	1.56 (39.6)	.09 (2.3)
V 9C20-051	R30 & RX30	.51 (13)	2.00 (50.8)	.13 (3.3)
V 9C20-066	R41	.66 (16.8)	2.81 (71.4)	.19 (4.8)
V 9C20-094	R56	.94 (23.9)	3.88 (98.6)	.25 (6.4)
V 9C20-106	R78	1.06 (26.9)	5.25 (133.4)	.38 (9.7)



For Bolt Mounts, see previous pages.

**INSTALLATION CONFIGURATIONS**

**Installation Dimensions**

Mount Series	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)
V10Z82-R21	.04 (1.02)	1.25 (31.8)	.38 (9.7)	.75 (19.1)
V10Z82-R30	.06 (1.52)	1.94 (49.3)	.56 (14.2)	1.25 (31.8)
V10Z82-R41	.09 (2.29)	2.43 (61.7)	.88 (22.4)	1.50 (38.1)
V10Z82-R56	.12 (3.05)	2.88 (73.2)	1.12 (28.4)	2.25 (57.2)
V10Z82-R78	.12 (3.05)	3.38 (85.9)	1.25 (31.8)	2.50 (63.5)



# Bolt Mounts – Silicone Gel Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- MATERIAL: Collar – Brass  
Bushing – Silicone Gel

- PROTECTS FRAGILE SUBJECTS FROM MICROVIBRATIONS AND LIGHT SHOCKS

**New**

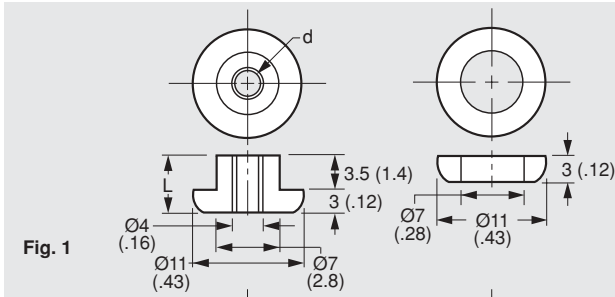


Fig. 1

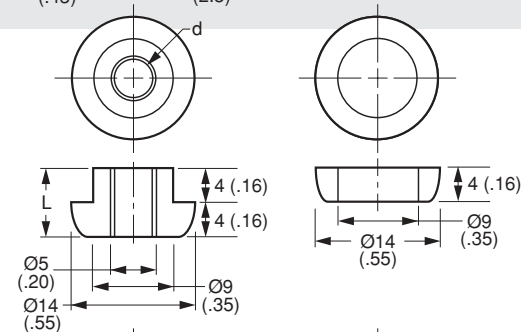


Fig. 2

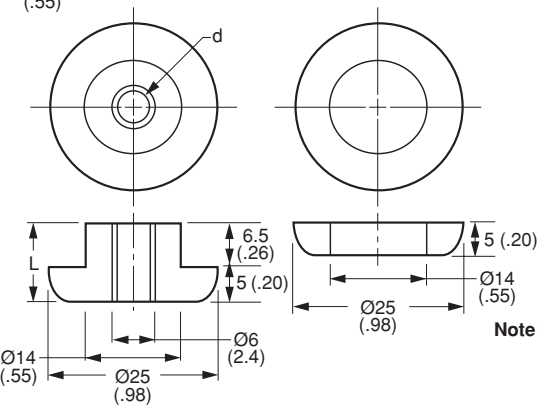
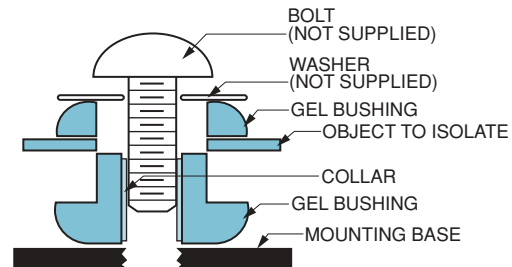


Fig. 3



Metric

SECTION 7



INSTALLATION DIAGRAM

Note: Dimensions in ( ) are inch.

TEMPERATURE RANGE: -40°C to +200°C (-40°F to +392°F)

Catalog Number	Fig. No.	d Collar ID	L Collar Length	Collar Thickness	Optimum Load kgf/leg (lb./leg)	Resonance Point Hz	Resonance Magnification dB	Recommended Frequency Hz
V10Z61MS	1	3 (.12)	6 (.24)	0.5 (.02)	0.05 to 0.188 (.11 to .41)	64 to 42	7 to 9	90 @ 0.05 kg (.11 lb.) 60 @ 0.188 kg (.41 lb.)
V10Z61MA1	2	3 (.12)	7 (.28)	1 (.04)	0.125 to 0.625 (.28 to 1.38)	67 to 35	9 to 10	95 @ 0.125 kg (.28 lb.) 50 @ 0.625 kg (1.38 lb.)
V10Z61MA2					0.625 to 1 (1.38 to 2.2)	49 to 37	15 to 16	70 @ 0.625 kg (1.38 lb.) 55 @ 1 kg (2.2 lb.)
V10Z61MB1	3	4 (.16)	11 (.43)	1 (.04)	1 to 3.75 (2.2 to 8.27)	49 to 23	15 to 17	70 @ 1 kg (2.2 lb.) 35 @ 3.75 kg (8.27 lb.)
V10Z61MB2					3.75 to 8 (8.27 to 17.64)	20 to 15	19 to 23	30 @ 3.75 kg (8.27 lb.) 25 @ 8 kg (17.64 lb.)

NOTE: More technical data is given on pages 1-34, 1-35 & 2-3.





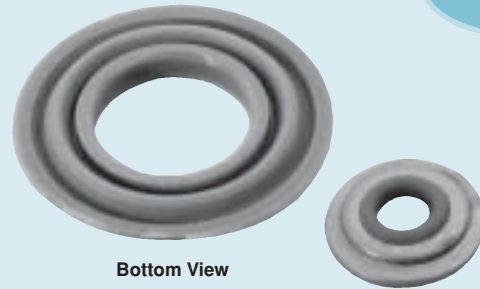
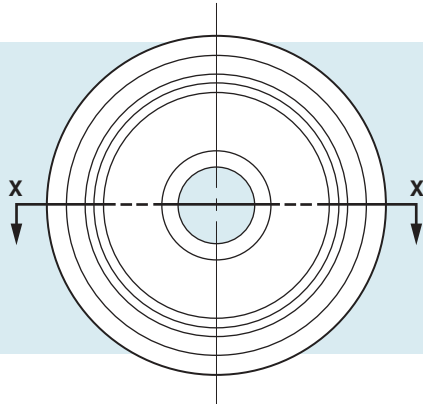
# Bolt Mounts – Washer Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- MATERIAL: Washer – Stainless Steel  
Seal – Silicone Rubber

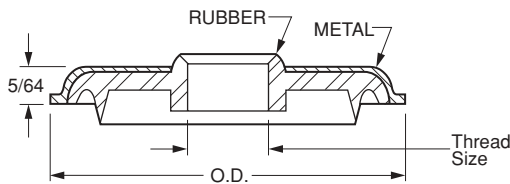
- CAN BE USED AS SEALING WASHER
- ONE-PIECE CONSTRUCTION • SELF-SEALING

**New**



Bottom View

Top View



SECTION X-X

TEMPERATURE RANGE: -160°F to +500°F (-106.7°C to +260°C)  
PRESSURE RANGE: 100 psi (0.69 N/mm<sup>2</sup>) Internal & External

Catalog Number	Thread Size	Washer O.D.
V10Z14-04050	#6	1/2
V10Z14-04100		1
V10Z14-04150		1-1/2
V10Z14-05050	#8	1/2
V10Z14-05100		1
V10Z14-05150		1-1/2
V10Z14-06050	#10	1/2
V10Z14-06100		1
V10Z14-06150		1-1/2

Catalog Number	Thread Size	Washer O.D.
V10Z14-08100	1/4	1
V10Z14-08150		1-1/2
V10Z14-10100	5/16	1
V10Z14-10150		1-1/2
V10Z14-12100	3/8	1
V10Z14-12150		1-1/2
V10Z14-14100	7/16	1
V10Z14-14150		1-1/2
V10Z14-16100	1/2	1
V10Z14-16150		1-1/2

**INSTALLATION:** Bolt Mounts – Washer Type are installed on bolts or screws in the same manner as regular washers. The rubber section should always face the panel.



# Silicone vs. Rubber

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

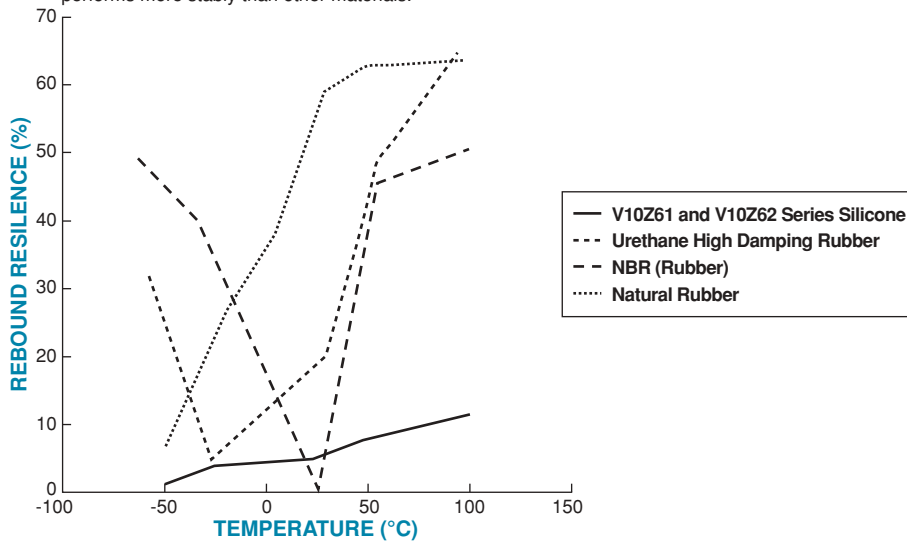
*New*

Metric

SECTION 7

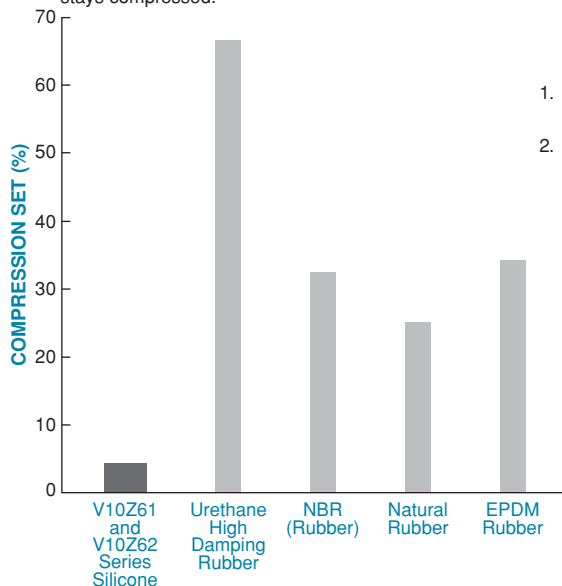
## REBOUND RESILIENCE

No matter what the temperature could be, Silicone Gel performs more stably than other materials.



## COMPRESSION SET

Outstanding restoration is available even when Silicone Gel stays compressed.



1. Compress above materials by 25% and leave compressed for 22 hours in 70°C (158° F).
2. Release compression and leave in normal temperature for 30 minutes.



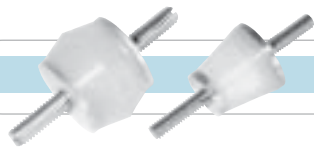
# Unique Properties of Silicone Gel

[www.vibrationmounts.com](http://www.vibrationmounts.com) Phone: 516.328.3662 Fax: 516.328.3365

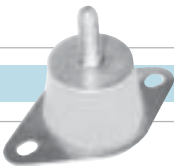
Silicone gel has many properties that are superior to many other vibration damping materials such as rubber and urethane.

- Stable performance over wide temperature range: -40°C (-40°F) to 100 ~ 200°C (212 ~ 392°F) depending on the composition.
- Good thermal conductivity.
- Excellent in light-load and high-frequency vibration applications.
- High ozone, UV and chemical resistance.

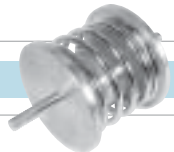
## Many Forms of Silicone Gel Products Are Offered in This Catalog



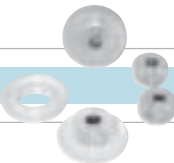
Stud Type Mounts p. 1-34 thru 1-36



Base Mounts p. 2-3



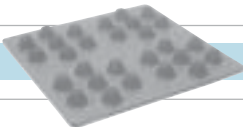
Spring Mounts p. 5-14



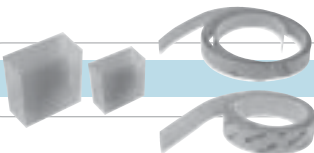
Bolt Mounts p. 7-15



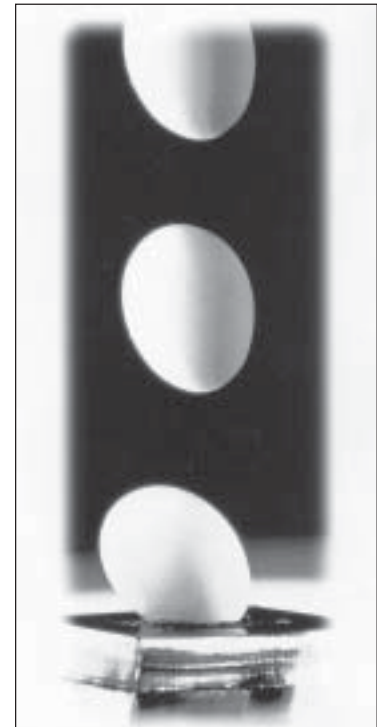
Silicone Foam Pads p. 8-8



Silicone Gel Pads p. 8-9



Silicone Gel Tape & Chips p. 8-10



## Shock Absorbent Test

Impact of dropping a fresh egg from a height of 18 m (59 feet) onto a 2 cm (.79 in.) thick silicone gel pad is gently absorbed without breaking the egg.



# Vinyl Elastomer Grommets

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: Highly-Damped Blue Vinyl Elastomer

• VIBRATION & SHOCK CONTROL • SMALL SIZES  
• NOISE CONTROL • EXCELLENT PHYSICAL INTEGRITY

**New**

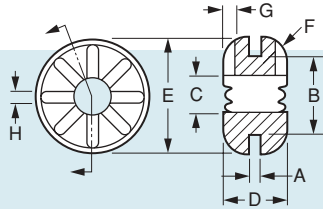


Fig. 1

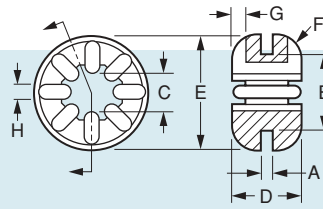


Fig. 2

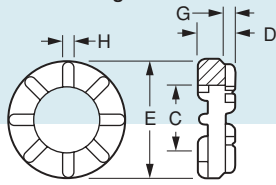


Fig. 3

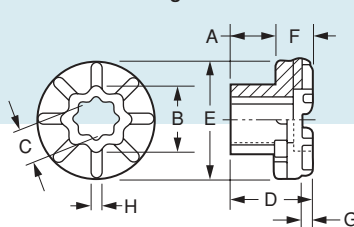


Fig. 4

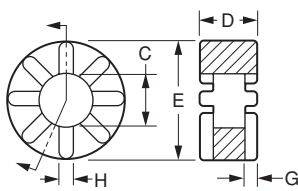


Fig. 5

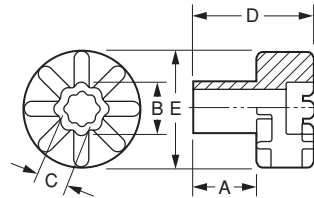


Fig. 6



Fig. 1



Fig. 2

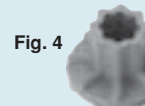


Fig. 4



Fig. 3

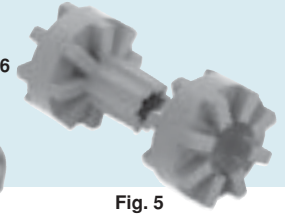


Fig. 5

## APPLICATIONS

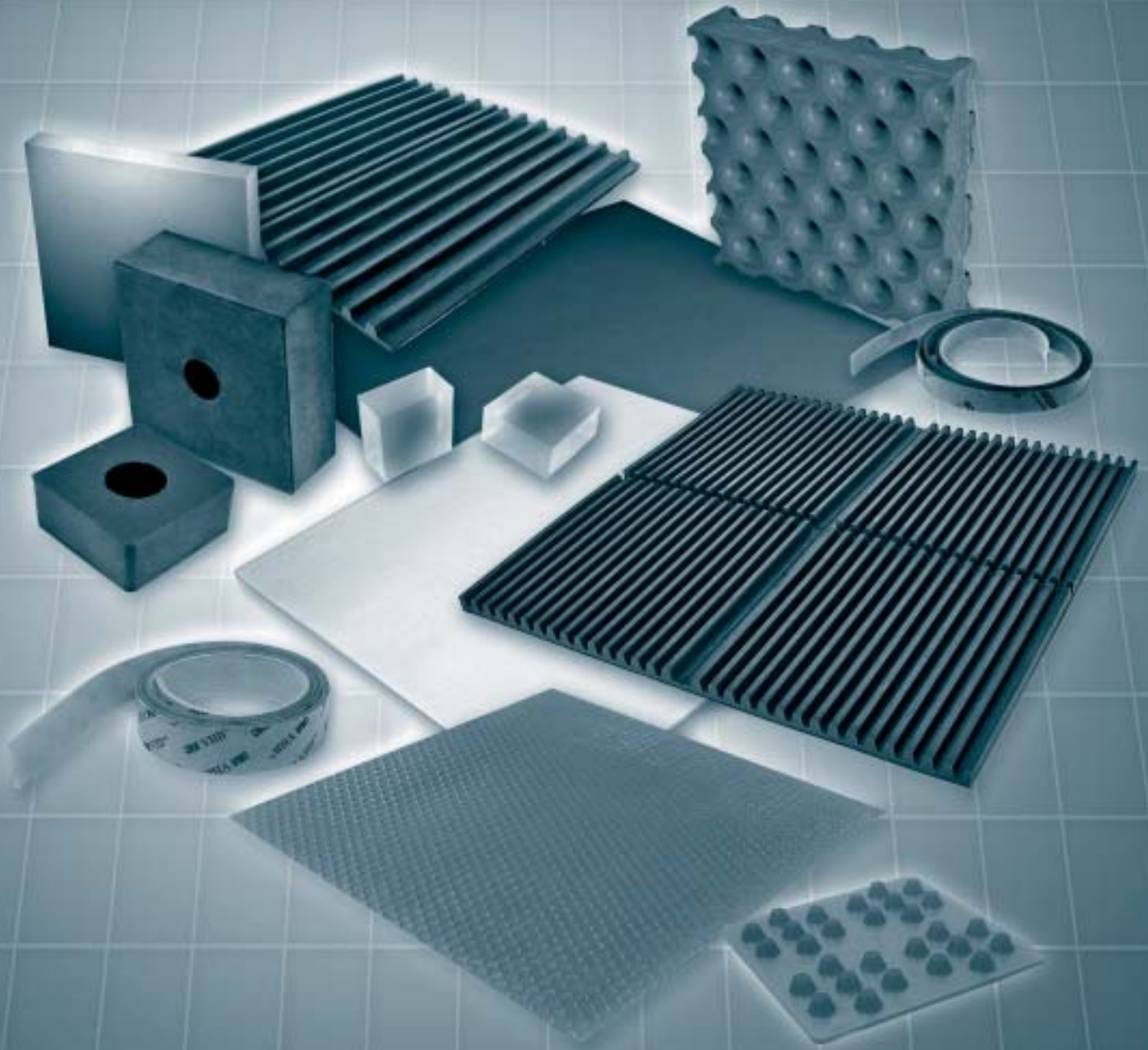
- COMPUTER DISK DRIVES
- COMPUTER PRINTERS AND PERIPHERALS
- PRECISION EQUIPMENT – MEDICAL, OFFICE AND LABORATORY

PEAK PERFORMANCE TEMPERATURE RANGE: 55°F TO 105°F (13°C TO 41°C)

Catalog Number	Fig. No.	A Plate Thickness in. (mm)	B Hole Diameter in. (mm)	C Inside Diameter in. (mm)	D Overall Height in. (mm)	E Outside Diameter in. (mm)	F Edge Radius in. (mm)	G Rib Height in. (mm)	H Rib Width in. (mm)	Load lb. (N)
V10R14-G401-1	1	.063 (1.60)	.375 (9.53)	.224 (5.69)	.313 (7.95)	.563 (14.30)	.125 (3.18)	.063 (1.60)	.063 (1.60)	6 (26.7)
V10R14-G402-1		.125 (3.18)		.226 (5.74)	.375 (9.53)					
V10R14-G403-1		.063 (1.60)		.276 (7.01)	.313 (7.95)	.625 (15.88)				
V10R14-G404-1		.125 (3.18)		.281 (7.14)	.375 (9.53)					
V10R14-G410-1	2	.057 (1.45)	.250 (6.35)	.158 (4.01)	.230 (5.84)	.379 (9.63)	.050 (1.27)	.040 (1.02)	.050 (1.27)	3 (13.3)
V10R14-G411-1		.063 (1.60)	.375 (9.53)	.188 (4.78)	.323 (8.20)	.563 (14.30)	.130 (3.30)	.063 (1.60)	.063 (1.60)	6 (26.7)
V10R14-G412-1		.031 (0.79)	.250 (6.35)	.158 (4.01)	.230 (5.84)	.379 (9.63)	.050 (1.27)	.040 (1.02)	.050 (1.27)	3 (13.3)
V10R14-G414-1		.043 (1.09)	.375 (9.53)	.188 (4.78)	.323 (8.20)	.563 (14.30)	.130 (3.30)	.063 (1.60)	.063 (1.60)	6 (26.7)

Catalog Number	Fig. No.	A Shank Height in. (mm)	B Shank Diameter in. (mm)	C Inside Diameter in. (mm)	D Overall Height in. (mm)	E Flange Diameter in. (mm)	F Flange Height in. (mm)	G Rib Height in. (mm)	H Rib Width in. (mm)	Load lb. (N)
V10R82-F10-1	3	—	—	.460 (11.68)	.250 (6.35)	.813 (20.65)	—	.078 (1.98)	.085 (2.16)	10 (44.5)
V10R82-M10-1	4	.313 (7.95)	.469 (11.91)	.260 (6.60)	.563 (14.30)		.250 (6.35)			
V10R82-F25-1	5	—	—	.457 (11.61)	.520 (13.21)	1.000 (25.40)	—	.132 (3.35)	.125 (3.18)	25 (111.2)
V10R82-M25-1	6	.544 (13.82)	.473 (12.01)	.260 (6.60)	1.060 (26.92)		.516 (13.11)		.135 (3.43)	

# Pads & Tapes



## SECTION 8



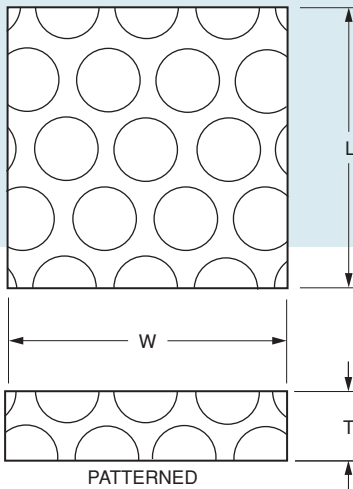
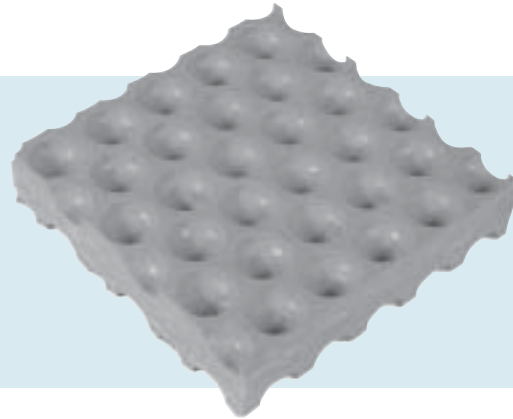


# Iso-Pads

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** A compound of two layers of tough vinyl chloride elastomeric resin bonded to both sides of a strong reinforcing core of monofilament fiberglass and fused in a special process.

- **FOR STANDARD LOADS OF 50 TO 100 PSI (3.5 TO 7 kgf/cm<sup>2</sup>)**



**COLOR:** Orange

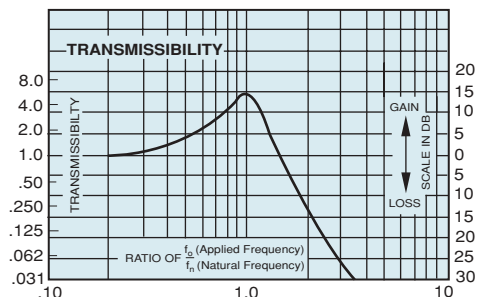
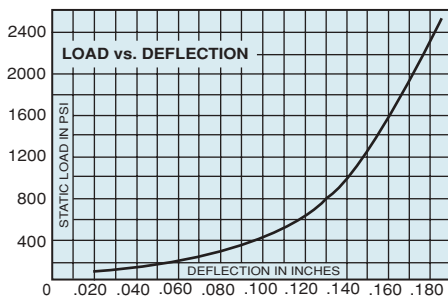
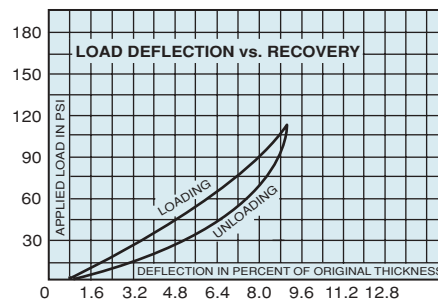
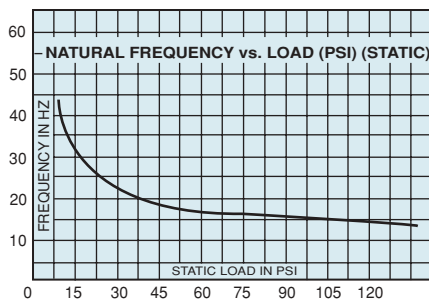
**COEFFICIENT OF FRICTION:** .8

**TEMPERATURE RANGE:** -50°F to +230°F (-45.6°C to 110°C)

**NATURAL FREQUENCY vs TEMP AT 100 PSI (7 kgf/cm<sup>2</sup>):**

-50°F (-45.6°C)  
Room Temperature  
+230°F (110°C)

$f_n = 24$  Hz  
 $f_n = 27$  Hz  
 $f_n = 19$  Hz



Catalog Number	W		L		T		Pad Area	
	in.	mm	in.	mm	in.	mm	sq. in.	sq. cm
V10R10-00	22	558	23	584			506	3265
*V10R10-33	3	76.2	3	76.2			9	58.1
*V10R10-44	4	101.6	4	101.6	5/8	15.9	16	103.2
*V10R10-36	3	76.2	6	152.4			18	116.1
*V10R10-48	4	101.6	8	203.2			32	206.5

\*Priced per box of 12 pieces.

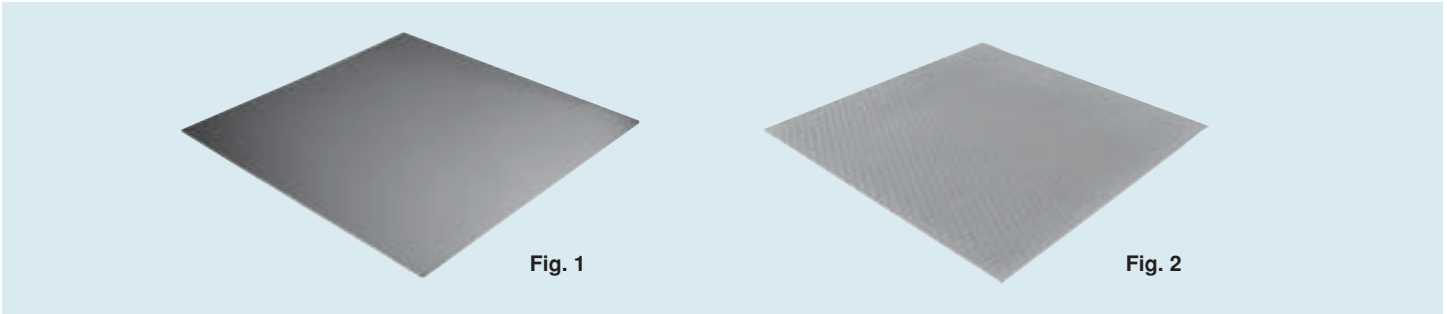




# Iso-Pad Sheets

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• UNPATTERNED • PATTERNED



• FIG. 1

## ISO-PAD FOR BOLT INSULATOR (UNPATTERNED)

Coefficient of Friction: .8 Color: Orange

Catalog Number	Sheet Dimensions					
	W		L		T	
	in.	mm	in.	mm	in.	mm
V10R11-B11	11	279.4	11	279.4	3/32	2.4

### For Bolt Isolation:

Occasionally, machinery must be bolted down because of unbalanced structure, upward pull, safety requirements or local ordinances. Shimming instructions would apply for bolted machinery.

The bolt head should be isolated from the machine base or feet by using a metal washer over a piece of ISO-PAD. The body of the bolt must also be isolated. This can be achieved with Bolt Insulator material cut to size, rolled into a cylinder, and slipped over the bolt.

• FIG. 2

## ISO-PAD FOR SHIM (PATTERNED)

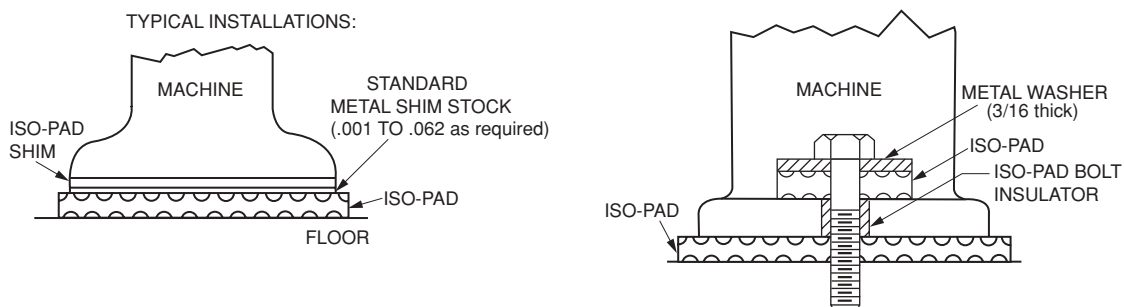
Coefficient of Friction: .8 Color: Orange

Catalog Number	Sheet Dimensions					
	W		L		T	
	in.	mm	in.	mm	in.	mm
V10R11-A00	22	558	22	558	3/32	2.4

### For Machine Leveling:

SHIM increases ISO-PAD height in 3/32 in. (2.4 mm) increments. If metal shims are required, use ISO-PAD SHIM to isolate them from the machine base and eliminate metal-to-metal contact. It is especially useful in assuring level machine installations on unlevel floors.

ISO-PAD SHIM has a composition similar to ISO-PAD Standard. (See previous page for ISO-PAD Standard)



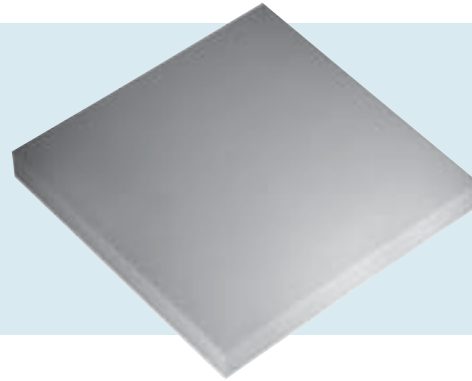
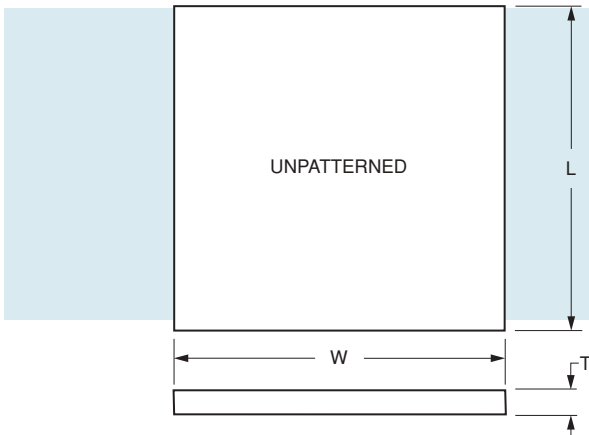


# Iso-Pads

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: Vinyl Chloride Elastomeric Resin

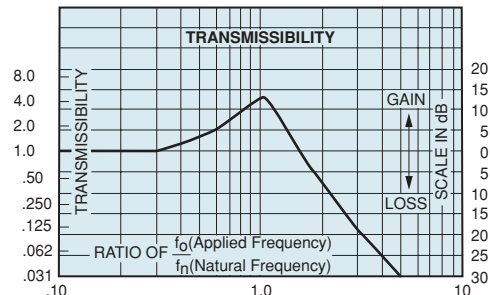
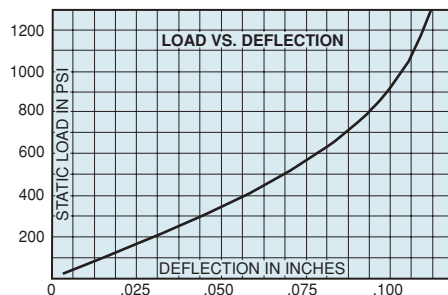
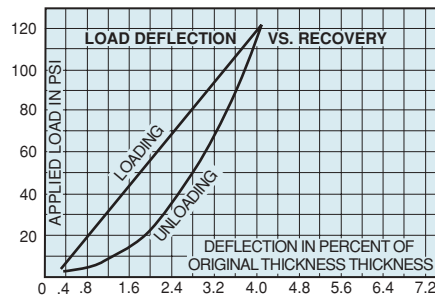
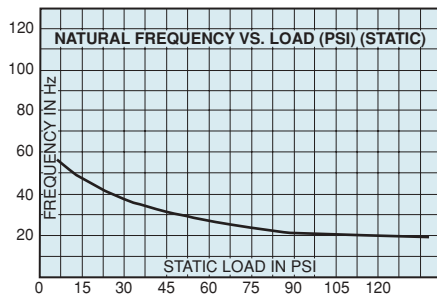
• FOR LIGHT LOADS OF 20 TO 120 PSI (1.4 TO 8.4 kgf/cm<sup>2</sup>)



NATURAL FREQUENCY vs. TEMP. AT 80 PSI (5.6 kgf/cm<sup>2</sup>)

-50 °F (-45.6°C)       $f_n = 24$  Hz  
 Room Temperature       $f_n = 40$  Hz  
 +230° F (110°C)       $f_n = 24$  Hz

COEFFICIENT OF FRICTION: .8



COLOR: Orange

TEMPERATURE RANGE: -50° F to +230° F (-45.6°C to 110°C)

Catalog Number	Pad Dimensions						Pad Area	
	W		L		T		sq. in.	sq. cm
	in.	mm	in.	mm	in.	mm		
V10R 9-00	22	558	23	584	1/4	6.4	506	3265
V10R 9-11	1	25.4	1	25.4			1	6.5
V10R 9-22	2	50.8	2	50.8			4	25.8
V10R 9-33	3	76.2	3	76.2			9	58.1
V10R 9-44	4	101.6	4	101.6			16	103.2

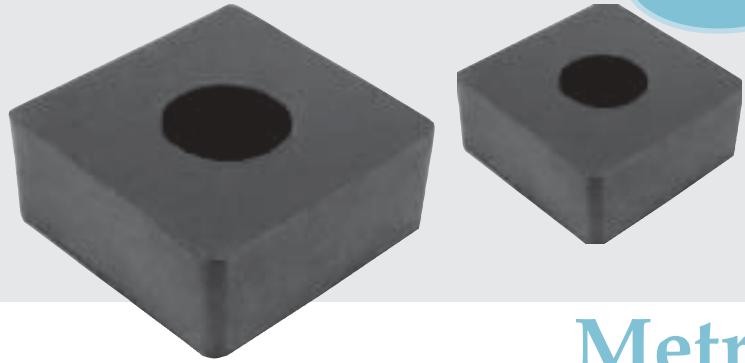
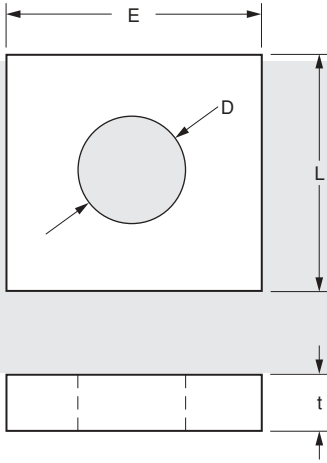


# Square Rubber Mounts

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: Natural Rubber (55-60 Shore A Black)

• 100% RUBBER • HOLE FOR EASY INSTALLATION  
• GREAT FOR IMPACT LOADS

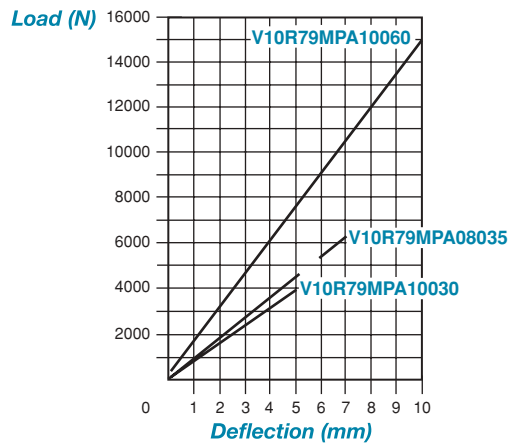
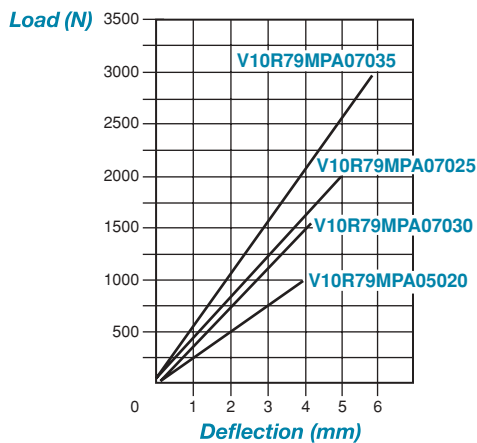


Metric

Catalog Number	E mm (in.)	L mm (in.)	t mm (in.)	D mm (in.)	Max. Load kgf (lb.)
V10R79MPA05020	50 (1.97)	50 (1.97)	20 (.79)	11 (.43)	100 (220)
V10R79MPA07025	70 (2.76)	70 (2.76)	25 (.98)	—	200 (441)
V10R79MPA07030			30 (1.18)	—	150 (331)
V10R79MPA07035			35 (1.38)	—	300 (661)
V10R79MPA08035	80 (3.15)	80 (3.15)	35 (1.38)	35 (1.38)	600 (1323)
V10R79MPA10030	100 (3.94)	100 (3.94)	30 (1.18)	—	400 (882)
V10R79MPA10060			60 (2.36)	40 (1.57)	1500 (3307)

SECTION 8

## PERFORMANCE GRAPHS





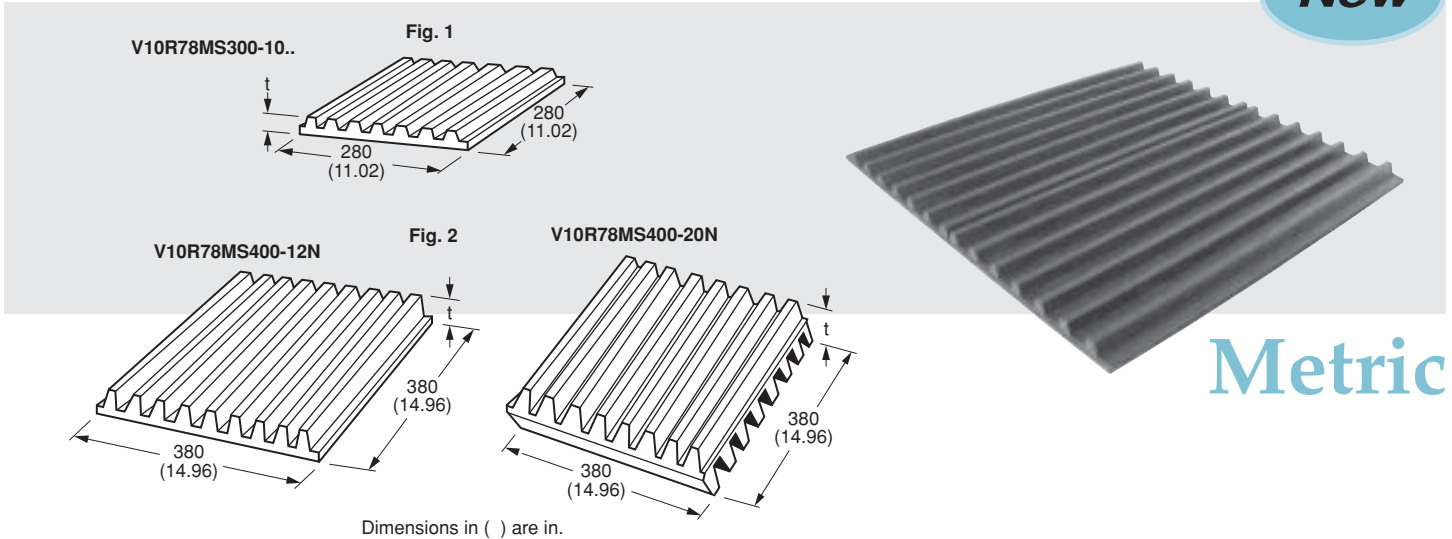
# Pads – Single Ribbed

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Natural Black Rubber (Ozone-Resistant Rubber)

• **VERSATILE**  
• **SMALL FOOTPRINT**

**New**



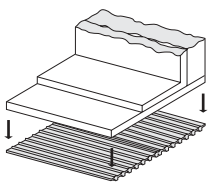
Dimensions in ( ) are in.

Catalog Number	Figure Number	t Thickness mm (in.)	Compression Load N/cm <sup>2</sup> (lb./in. <sup>2</sup> )	Admissible Temporary Overload %
V10R78MS300-10N	1	10 (.39)	26 (38)	30
*V10R78MS300-10CR				
V10R78MS400-12N	2	12 (.47)	30 (44)	
V10R78MS400-20N				

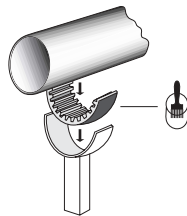
\*The material for this item is Neoprene.

## ASSEMBLY EXAMPLES

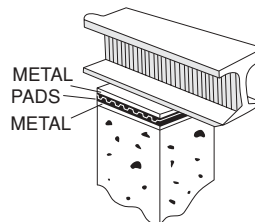
**DIRECT MOUNTING:**  
Free installation of the machine on the pad simply by resting it there.



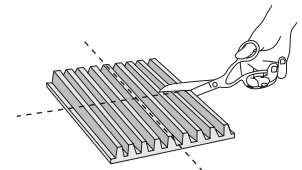
**GLUED MOUNTING:**  
Attachment using glue.



**METAL BASEPLATE MOUNTING**



**SPLIT MOUNTING:**  
One single pad can be used by splitting it, to insulate the different legs of a machine.





# Pads – Paired Ribbed

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: Natural Black Rubber (Ozone-Resistant Rubber)

• VERSATILE  
• SMALL FOOTPRINT

**New**

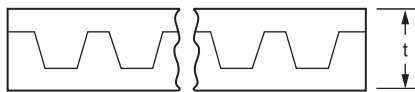
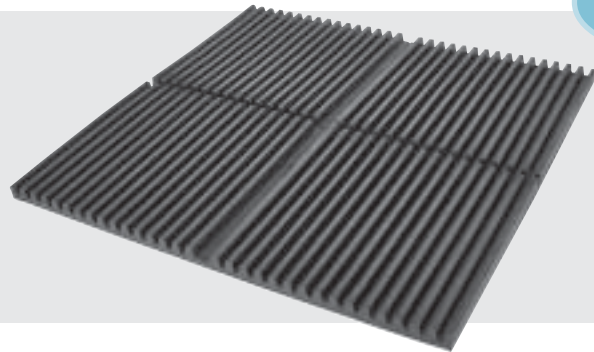


Fig. 1 Shown for example

Metric

The serrated sides of the pads enable the pads to fit together so that they generate greater continuity to help insulate vibrations better. PADS (matched antivibratory pads), compress simultaneously, whether or not they are of the same hardness.



Fig. 1

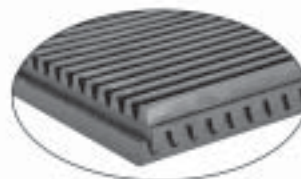


Fig. 2

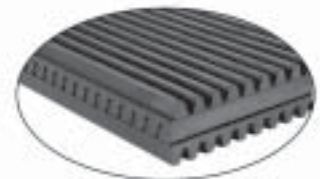


Fig. 3

Catalog Number	Fig. No.	H Height mm (in.)	W Width mm (in.)	t Thickness mm (in.)	Compression Load N/cm <sup>2</sup> (lb./in. <sup>2</sup> )	Admissible Temporary Overload %	Made up of
V10R78MD400-16	1	360 (14.2)	360 (14.2)	16 (.63)	35 (51)	30	(2x) V10R78MS400-12N
V10R78MD400-24	2	360 (14.2)	360 (14.2)	24 (.95)	40 (58)		(1x) V10R78MS400-12N (1x) V10R78MS400-20N
V10R78MD400-32	3	360 (14.2)	360 (14.2)	32 (1.26)	45 (65)		(2x) V10R78MS400-20N

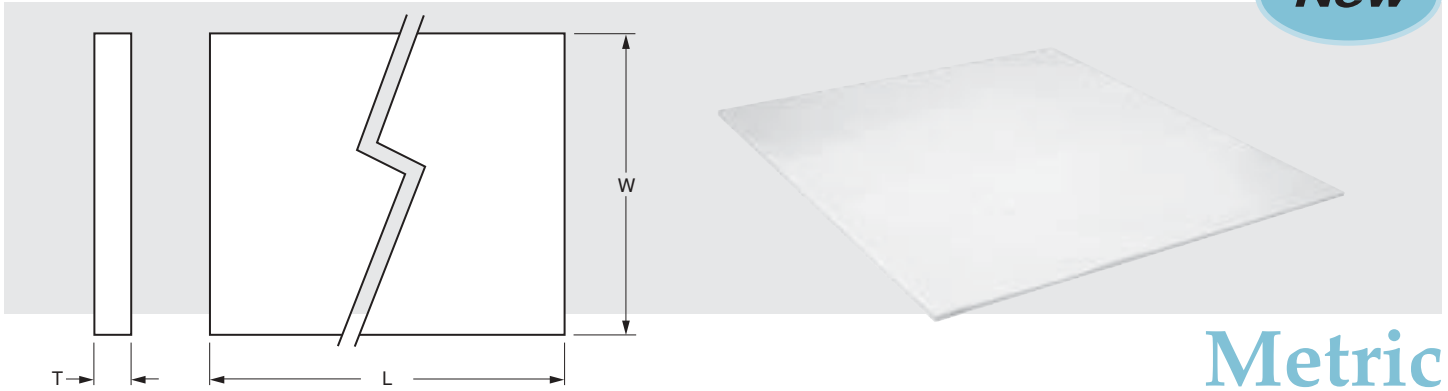


# Silicone Foam Pads

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- MATERIAL: Silicone Foam
- OUTSTANDING DURABILITY
- LOW COMPRESSION SET
- DURABLE IN ANY WEATHER
- FOR OUTSIDE USE
- SHOCK ABSORBER
- LOW FLAMMABILITY

**New**



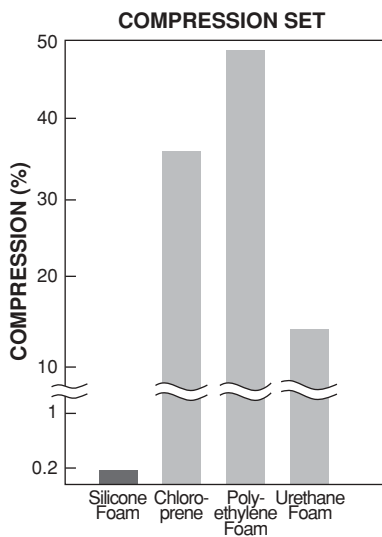
**Metric**

TEMPERATURE RANGE: -40°C to 200°C (-40°F to 392°F)

Catalog Number	W Width	L Length	T Thickness	Color
V10Z62MNPGRN	450 (17.72)	500 (19.69)*	3 (.118)	Green
V10Z62MNPWTE	300 (11.81)	500 (19.69)**	6 (.236)	White

\* Maximum length - 2000 mm (78.7) on special order.

\*\* Maximum length - 1000 mm (39.4) on special order.



1. Compress the materials by 50% and leave compressed for 22 hours in 70°C (158°F).
2. Release compression and leave subject in normal temperature for 30 minutes.

**CHARACTERISTICS:**

Specific Gravity	0.26	
Tensile Strength (Mega Pascal)	0.32	
Elongation (%)	73	
Young's Modulus (Kilo Pascal)	269.5	
Specific Heat (Joule/g • °K)	1.15	
Thermal Conductivity (Watt/m • °K)	0.06	
Specific Volume Resistance Ratio (Ω • cm)	3.8x10 <sup>14</sup>	
Dielectric Breakdown Strength (kV/mm)	3.8	
Chemical Resistance	Toluene	X
	Acetone	X
	Methanol	O
	Distilled H <sub>2</sub> O	O
	Fuel	X
	Lubricant	X
	NaCl (10%)	O
	HCl (10%)	O
NaOH (5%)	O	

X = Has a reaction  
O = No reaction

NOTE: Dimensions in ( ) are inch.



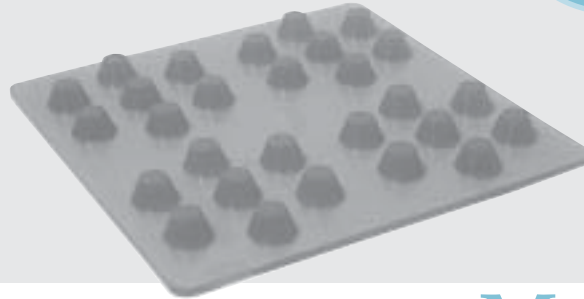
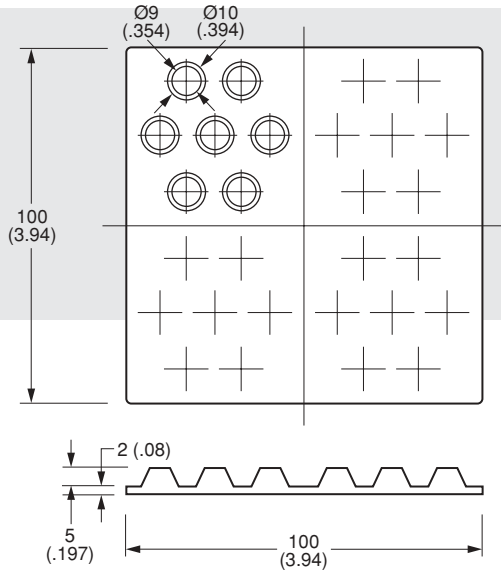


# Silicone Gel Pads

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- MATERIAL: Silicone Gel
- LOW RESONANCE MAGNIFICATION
- OZONE, UV AND CHEMICAL RESISTANT
- ABSORBS SHOCKS
- REDUCES NOISE

**New**



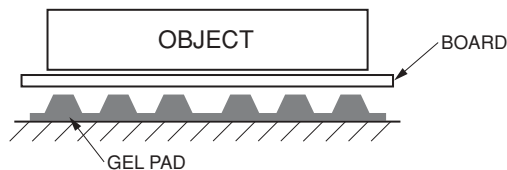
**Metric**

NOTE: Dimensions in ( ) are inch

TEMPERATURE RANGE: -40°C to +200°C (-40°F to +392°F)

Catalog Number	Optimum Load kgf/pad(lb./pad)	Resonance Point Hz	Resonance Magnification dB	Recommended Frequency Hz	Deflection mm (in.)	Color
V10Z62MSN02	0.5 to 2 (1.1 to 4.4)	27 to 21	6	from 38	1.4 to 3 (.06 to .12)	Yellow
V10Z62MSN05	2 to 5 (4.4 to 11.0)	29 to 23	8	from 40	1.5 to 2.5 (.06 to .10)	Green
V10Z62MSN15	5 to 15 (11.0 to 33.1)	26 to 18	13	from 37	1.1 to 2.2 (.04 to .09)	Orange
V10Z62MSN50	15 to 50 (33.1 to 110.2)	22 to 15	20 to 18	from 30	0.7 to 2 (.03 to .08)	Blue

## INSTALLATION



- Divide for light load. Add for heavy load.
- Make sure of total object load and then select optimum gel pad.

- (Example)
- For 0.3 kgf (.66 lb.) load, add a board for extra weight or divide V10Z62MSN02 to reduce projections.
  - For 10 kgf (22.1 lb.) load, divide V10Z62MSN15 into pieces.
  - For 80 kgf (176.4 lb.) load, use two of V10Z62MSN50 and divide if needed.

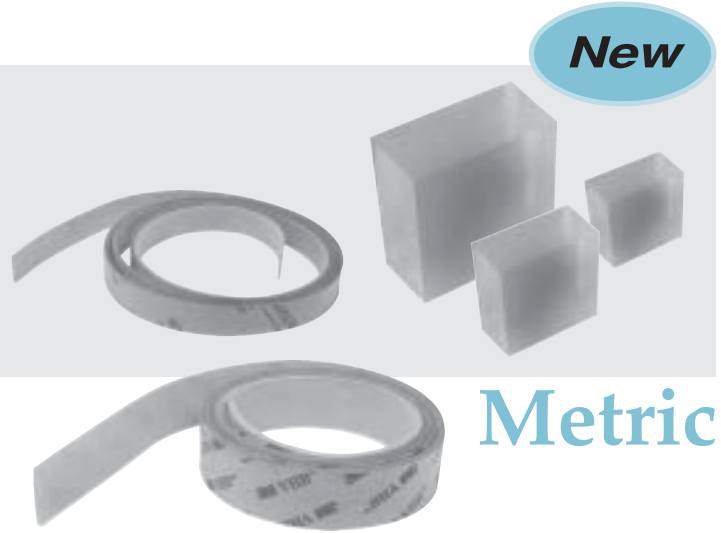
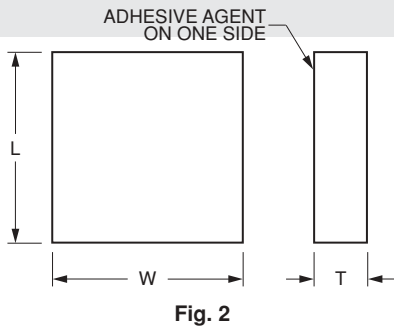
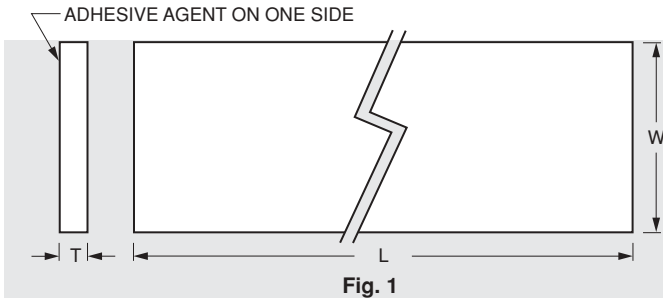


# Silicone Gel Tape & Chips

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• MATERIAL: Silicone Gel

• LOW COMPRESSION SET • HIGH CHEMICAL RESISTANCE  
• HIGH WEATHER RESISTANCE • EFFECTIVE IN NARROW SPACE



TEMPERATURE RANGE: -40°C to 100°C (-40°F to 212°F)

Catalog Number	W Width	L Length	T Thickness
<b>• Fig. 1 TAPE</b>			
V10Z62MGT1	10 (.394)	1000 (39.4)	1 (.039)
V10Z62MGT2	20 (.787)		
V10Z62MGT3	10 (.394)		2 (.079)
V10Z62MGT4	20 (.787)		
V10Z62MGT5	10 (.394)		3 (.118)
V10Z62MGT6	20 (.787)		
<b>• Fig. 2 CHIPS*</b>			
V10Z62MGC1	10 (.394)	10 (.394)	3 (.118)
V10Z62MGC2			5 (.197)
V10Z62MGC3	15 (.591)	15 (.591)	3 (.118)
V10Z62MGC4			5 (.197)
V10Z62MGC5			10 (.394)
V10Z62MGC6	20 (.787)	20 (.787)	3 (.118)
V10Z62MGC7			5 (.197)
V10Z62MGC8			10 (.394)

\*Priced per sheet (25 chips per sheet)

NOTE: Dimensions in ( ) are inch.

# Couplings



**SECTION 9**



# Couplings – Neo-Flex – Short

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Hubs – 303 Stainless Steel  
Center – Molded Neoprene, Durometer 73

- **MOLDED NEOPRENE CENTER**
- **SHAFT-TO SHAFT INSULATION**
- **FAIRLOC® AND PIN TYPE HUBS**
- **TORSIONAL VIBRATION ISOLATION**

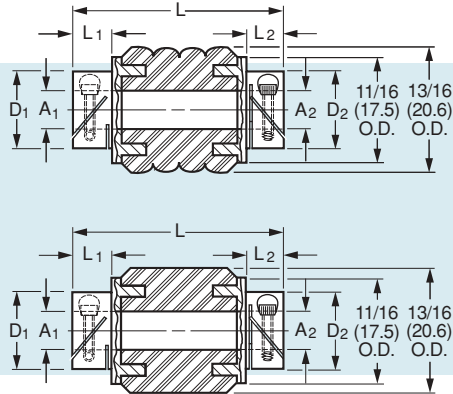


Fig 1. FairLoc® Type Hub

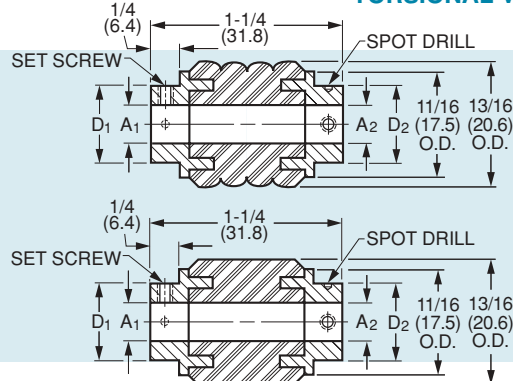


Fig 2. Pin Type Hub

NOTE: Dimensions in ( ) are mm.

### MISALIGNMENT COMPENSATION

	Ribbed Style	Smooth Style
Max. Angular Offset	5°	1°
Max. Lateral Offset	.010 (0.25)	.005 (0.13)

Fig. 1 Fairloc® Type Hub

Catalog Number		A <sub>1</sub> Bore +.001 (+0.025)	A <sub>2</sub> Bore +.001 (+0.025)	D <sub>1</sub> Hub Dia.	D <sub>2</sub> Hub Dia.	L <sub>1</sub> Hub Length	L <sub>2</sub> Hub Length	L Overall Length ± 1/64 (± 0.4)	Cap Screw	Max. Torque oz. in. (N • m)
Ribbed Style	Smooth Style									
V50FSR-0303	V50FSS-0303	.1200 (3.048)	.1200 (3.048)	.440 (11.18)	.440 (11.18)	.257 (6.53)	.257 (6.53)	1.264 (32.1)	#2-56	100 (0.71)
V50FSR-0304	V50FSS-0304	.1250 (3.175)	.1250 (3.175)	.440 (11.18)	.440 (11.18)	.257 (6.53)	.257 (6.53)	1.264 (32.1)	#2-56	120 (0.85)
V50FSR-0404	V50FSS-0404	.1875 (4.763)	.1875 (4.763)	.495 (12.57)	.495 (12.57)	.257 (6.53)	.257 (6.53)	1.264 (32.1)	#2-56	150 (1.06)
V50FSR-0406	V50FSS-0406	.1875 (4.763)	.1875 (4.763)	.495 (12.57)	.495 (12.57)	.257 (6.53)	.257 (6.53)	1.264 (32.1)	#2-56	150 (1.06)
V50FSR-0408	V50FSS-0408	.2500 (6.35)	.2500 (6.35)	.610 (15.49)	.610 (15.49)	.295 (7.49)	.295 (7.49)	1.302 (33.1)	#2-56 / #4-40	180 (1.27)
V50FSR-0606	V50FSS-0606	.2500 (6.35)	.2500 (6.35)	.610 (15.49)	.610 (15.49)	.295 (7.49)	.295 (7.49)	1.302 (33.1)	#2-56 / #4-40	180 (1.27)
V50FSR-0608	V50FSS-0608	.2500 (6.35)	.2500 (6.35)	.610 (15.49)	.610 (15.49)	.295 (7.49)	.295 (7.49)	1.302 (33.1)	#2-56 / #4-40	180 (1.27)
V50FSR-0808	V50FSS-0808	.2500 (6.35)	.2500 (6.35)	.610 (15.49)	.610 (15.49)	.295 (7.49)	.295 (7.49)	1.302 (33.1)	#4-40	180 (1.27)

Fig. 2 Pin Type Hub

Catalog Number		A <sub>1</sub> Bore +.0005 (+0.013)	A <sub>2</sub> Bore +.0005 (+0.013)	D <sub>1</sub> Hub Dia.	D <sub>2</sub> Hub Dia.	Set Screw	Max. Torque oz. in. (N • m)
Ribbed Style	Smooth Style						
V50PSR-0303	V50PSS-0303	.1200 (3.048)	.1200 (3.048)	5/16 (7.94)	5/16 (7.94)	#2-56	100 (0.71)
V50PSR-0304	V50PSS-0304	.1248 (3.17)	.1248 (3.17)	5/16 (7.94)	5/16 (7.94)	#2-56	120 (0.85)
V50PSR-0404	V50PSS-0404	.1873 (4.757)	.1873 (4.757)	3/8 (9.53)	3/8 (9.53)	#2-56 / #4-40	150 (1.06)
V50PSR-0406	V50PSS-0406	.2498 (6.345)	.2498 (6.345)	1/2 (12.7)	1/2 (12.7)	#4-40 / #6-32	180 (1.27)
V50PSR-0408	V50PSS-0408	.2498 (6.345)	.2498 (6.345)	1/2 (12.7)	1/2 (12.7)	#4-40 / #6-32	180 (1.27)
V50PSR-0606	V50PSS-0606	.2498 (6.345)	.2498 (6.345)	1/2 (12.7)	1/2 (12.7)	#6-32	180 (1.27)
V50PSR-0608	V50PSS-0608	.2498 (6.345)	.2498 (6.345)	1/2 (12.7)	1/2 (12.7)	#6-32	180 (1.27)
V50PSR-0808	V50PSS-0808	.2498 (6.345)	.2498 (6.345)	1/2 (12.7)	1/2 (12.7)	#6-32	180 (1.27)

Other bore sizes and combinations available on special order.



# Couplings – Neo-Flex – Short

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- MATERIAL: Hubs – 303 Stainless Steel  
Center – Molded Neoprene, Durometer 73
- MOLDED NEOPRENE CENTER • SHAFT-TO-SHAFT INSULATION
- TORSIONAL VIBRATION ISOLATION
- FAIRLOC® AND PIN TYPE HUBS

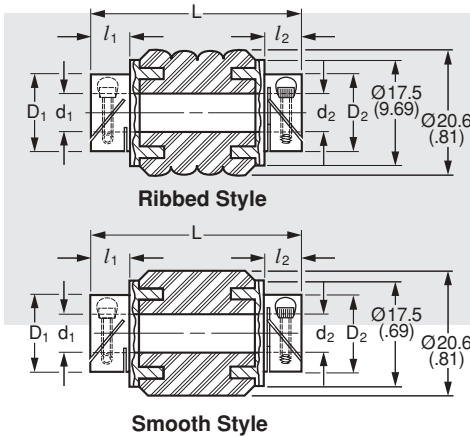


Fig. 1 Fairloc Type Hub

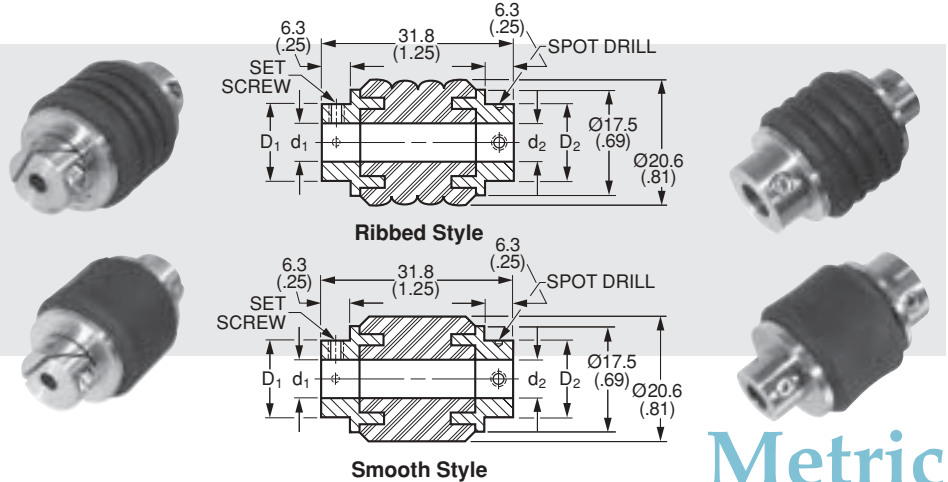


Fig. 2 Pin Type Hub

NOTE: Dimensions in ( ) are inch.

### MISALIGNMENT COMPENSATION

	Ribbed Style	Smooth Style
Max. Angular Offset	5°	1°
Max. Lateral Offset	0.25 (.010)	0.13 (.005)

Fig. 1 Fairloc® Hub Type

Catalog Number		d <sub>1</sub> Bore +0.025 (+.0010)	d <sub>2</sub> Bore +0.025 (+.0010)	D <sub>1</sub> Hub Dia.	D <sub>2</sub> Hub Dia.	l <sub>1</sub> Hub Length	l <sub>2</sub> Hub Length	L Overall Length ± 0.4 (±.016)	Cap Screw	Max. Torque N · m (oz. in.)
Ribbed Style	Smooth Style									
V50FSRM0303	V50FSSM0303	3 (.12)	3 (.12)	11 (.43)	11 (.43)	7 (.28)	7 (.28)	33.1 (1.30)	M2 M2 M2/M2.5 M2/M2.5	0.71 (100)
V50FSRM0304	V50FSSM0304		4 (.16)	11 (.43)	12.5 (.49)		7 (.28)	33.1 (1.30)		
V50FSRM0305	V50FSSM0305		5 (.20)	11 (.43)	16 (.63)		7.5 (.30)	33.6 (1.32)		
V50FSRM0306	V50FSSM0306	6 (.24)	12.5 (.49)	12.5 (.49)	7.5 (.30)	33.6 (1.32)				
V50FSRM0404	V50FSSM0404	4 (.16)	4 (.16)	12.5 (.49)	16 (.63)	7 (.28)	7 (.28)	33.1 (1.30)	M2.5	0.85 (120)
V50FSRM0405	V50FSSM0405		5 (.20)	12.5 (.49)	16 (.63)		7.5 (.30)	33.6 (1.32)		
V50FSRM0406	V50FSSM0406		6 (.24)	16 (.63)	7.5 (.30)		33.6 (1.32)			
V50FSRM0505	V50FSSM0505	5 (.20)	5 (.20)	16 (.63)	16 (.63)	7.5 (.30)	7.5 (.30)	34.1 (1.34)	M2.5	1.06 (150)
V50FSRM0506	V50FSSM0506		6 (.24)	16 (.63)	7.5 (.30)		34.1 (1.34)			
V50FSRM0606	V50FSSM0606		6 (.24)	16 (.63)	16 (.63)		7.5 (.30)	34.1 (1.34)		

NOTE: Fairloc® hubs require controlled shaft tolerances.  
Suggested tolerance according to g6, h6 or h7.

Fig. 2 Pin Type Hub

Catalog Number		d <sub>1</sub> Bore +0.013 (+.0005)	d <sub>2</sub> Bore +0.013 (.0005)	D <sub>1</sub> Hub Dia.	D <sub>2</sub> Hub Dia.	Set Screw	Max. Torque N · m (oz. in.)
Ribbed Style	Smooth Style						
V50PSRM0303	V50PSSM0303	3 (.12)	3 (.12)		7.9 (.31)	M2	0.71 (100)
V50PSRM0304	V50PSSM0304		4 (.16)	9.5 (.37)			
V50PSRM0306	V50PSSM0306		6 (.24)	12.7 (.50)			
V50PSRM0404	V50PSSM0404	4 (.16)	4 (.16)	9.5 (.37)	9.5 (.37)	M2	0.85 (120)
V50PSRM0406	V50PSSM0406		6 (.24)	12.7 (.50)			
V50PSRM0606	V50PSSM0606		6 (.24)	12.7 (.50)	7.9 (.31)		

Other bore sizes and combinations available on special order.

SECTION 9





# Couplings – Neo-Flex – Long

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Hubs – 303 Stainless Steel  
Center – Molded Neoprene, Durometer 73

- **MOLDED NEOPRENE CENTER**
- **SHAFT-TO SHAFT INSULATION**
- **FAIRLOC® AND PIN TYPE HUBS**
- **TORSIONAL VIBRATION ISOLATION**

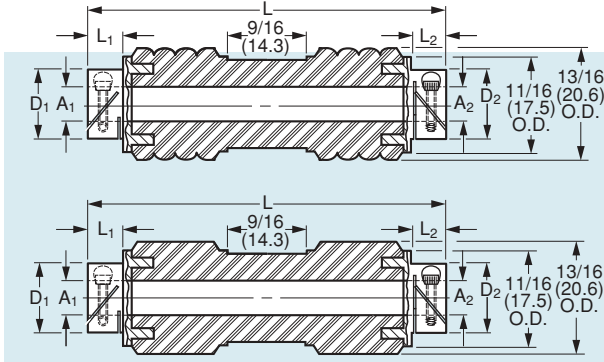


Fig 1. FairLoc® Type Hub



Fig 1. FairLoc® Type Hub

Fig 2. Pin Type Hub

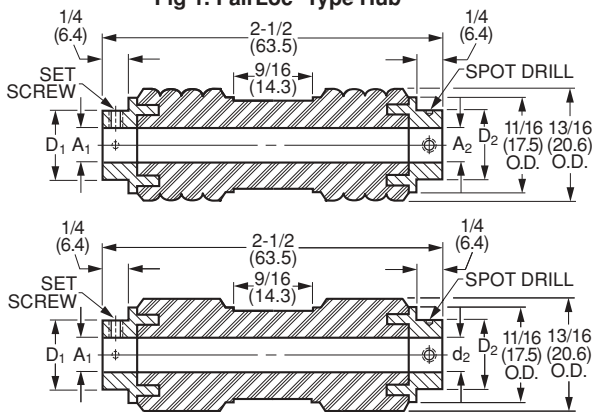


Fig 2. Pin Type Hub

NOTE: Dimensions in ( ) are mm.  
**MISALIGNMENT COMPENSATION**

	Ribbed Style	Smooth Style
Max. Angular Offset	15°	8°
Max. Lateral Offset	.015 (0.38)	.010 (0.25)

Fig. 1 Fairloc® Type Hub

Catalog Number		A <sub>1</sub> Bore +.001 (+0.025)	A <sub>2</sub> Bore +.001 (+0.025)	D <sub>1</sub> Hub Dia.	D <sub>2</sub> Hub Dia.	L <sub>1</sub> Hub Length	L <sub>2</sub> Hub Length	L Overall Length ±1/64 (0.4)	Cap Screw	Max. Torque oz. in. (N • m)
Ribbed Style	Smooth Style									
V50FLR-0303	V50FLS-0303	.1200 (3.048)	.1200 (3.048)	.440 (11.18)	.440 (11.18)	.257 (6.53)	.257 (6.53)	2.514 (63.9)	#2-56	100 (0.71)
V50FLR-0304	V50FLS-0304	.1250 (3.175)	.1250 (3.175)	.440 (11.18)	.440 (11.18)	.257 (6.53)	.257 (6.53)	2.514 (63.9)	#2-56	120 (0.85)
V50FLR-0404	V50FLS-0404	.1250 (3.175)	.1875 (4.763)	.440 (11.18)	.495 (12.57)	.257 (6.53)	.257 (6.53)	2.514 (63.9)	#2-56	120 (0.85)
V50FLR-0406	V50FLS-0406	.1875 (4.763)	.2500 (6.35)	.495 (12.57)	.610 (15.49)	.257 (6.53)	.328 (8.33)	2.585 (65.7)	#2-56 / #4-40	150 (1.06)
V50FLR-0606	V50FLS-0606	.1875 (4.763)	.1875 (4.763)	.495 (12.57)	.495 (12.57)	.257 (6.53)	.257 (6.53)	2.514 (63.9)	#2-56	150 (1.06)
V50FLR-0608	V50FLS-0608	.2500 (6.35)	.2500 (6.35)	.610 (15.49)	.610 (15.49)	.295 (7.49)	.295 (7.49)	2.552 (64.8)	#2-56 / #4-40	180 (1.27)
V50FLR-0808	V50FLS-0808	.2500 (6.35)	.2500 (6.35)	.610 (15.49)	.610 (15.49)	.295 (7.49)	.295 (7.49)	2.590 (65.8)	#4-40	180 (1.27)

Fig. 2 Pin Type Hub

Catalog Number		A <sub>1</sub> Bore +.0005 (+0.013)	A <sub>2</sub> Bore +.0005 (+0.013)	D <sub>1</sub> Hub Dia.	D <sub>2</sub> Hub Dia.	Set Screw	Max. Torque oz. in. (N • m)
Ribbed Style	Smooth Style						
V50PLR-0303	V50PLS-0303	.1200 (3.048)	.1200 (3.048)	5/16 (7.94)	5/16 (7.94)	#2-56	100 (0.71)
V50PLR-0304	V50PLS-0304	.1248 (3.17)	.1248 (3.17)	5/16 (7.94)	5/16 (7.94)	#2-56	120 (0.85)
V50PLR-0404	V50PLS-0404	.1248 (3.17)	.1873 (4.757)	5/16 (7.94)	3/8 (9.53)	#2-56 / #4-40	120 (0.85)
V50PLR-0406	V50PLS-0406	.2498 (6.345)	.2498 (6.345)	1/2 (12.7)	1/2 (12.7)	#2-56 / #6-32	150 (1.06)
V50PLR-0606	V50PLS-0606	.1873 (4.757)	.1873 (4.757)	3/8 (9.53)	3/8 (9.53)	#4-40	150 (1.06)
V50PLR-0608	V50PLS-0608	.2498 (6.345)	.2498 (6.345)	1/2 (12.7)	1/2 (12.7)	#4-40 / #6-32	180 (1.27)
V50PLR-0808	V50PLS-0808	.2498 (6.345)	.2498 (6.345)	1/2 (12.7)	1/2 (12.7)	#6-32	180 (1.27)

Other bore sizes and combinations available on special order.





# Couplings – Neo-Flex – Long

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Hubs – 303 Stainless Steel  
Center – Molded Neoprene, Durometer 73

- **MOLDED NEOPRENE CENTER**
- **SHAFT-TO-SHAFT INSULATION**
- **TORSIONAL VIBRATION ISOLATION**
- **FAIRLOC® AND PIN TYPE HUBS**

Fig. 1 Fairloc Type Hub

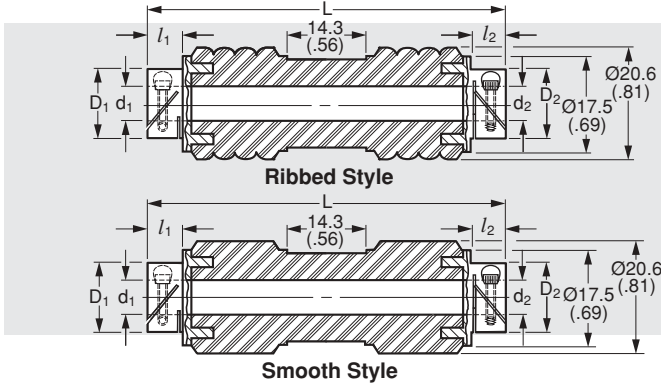
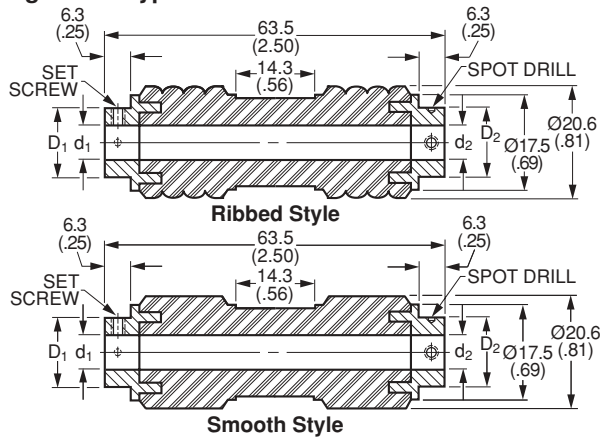


Fig. 2 Pin Type Hub



NOTE: Dimensions in ( ) are inch.

## MISALIGNMENT COMPENSATION

	Fairloc Type Hub		Pin Type Hub	
	Ribbed Style	Smooth Style	Ribbed Style	Smooth Style
Max. Angular Offset	5°	1°	15°	8°
Max. Lateral Offset	0.38 (.015)	0.25 (.010)	0.38 (.015)	0.25 (.010)

Fig. 1 Fairloc® Type Hub

Catalog Number		d <sub>1</sub> Bore +0.025 (+.0010)	d <sub>2</sub> Bore +0.025 (+.0010)	D <sub>1</sub> Hub Dia.	D <sub>2</sub> Hub Dia.	l <sub>1</sub> Hub Length	l <sub>2</sub> Hub Length	L Overall Length ±0.4 (±.016)	Cap Screw	Max. Torque N • m (oz. in.)
Ribbed Style	Smooth Style									
V50FLRM0303	V50FLSM0303	3 (.12)	3 (.12)	11 (.43)	11 (.43)	7 (.28)	7 (.28)	64.8 (2.55)	M2 M2 M2/M2.5 M2/M2.5	0.71 (100)
V50FLRM0304	V50FLSM0304		4 (.16)	11 (.43)	12.5 (.49)		7 (.28)	64.8 (2.55)		
V50FLRM0305	V50FLSM0305		5 (.20)	11 (.43)	16 (.63)		7.5 (.30)	65.3 (2.57)		
V50FLRM0306	V50FLSM0306	4 (.16)	6 (.24)	12.5 (.49)	12.5 (.49)	7 (.28)	7.5 (.30)	65.3 (2.57)	M2.5	0.85 (120)
V50FLRM0404	V50FLSM0404		4 (.16)	12.5 (.49)	16 (.63)		7 (.28)	64.8 (2.55)		
V50FLRM0405	V50FLSM0405		5 (.20)	12.5 (.49)	16 (.63)		7.5 (.30)	65.3 (2.57)		
V50FLRM0406	V50FLSM0406	5 (.20)	6 (.24)	16 (.63)	16 (.63)	7.5 (.30)	7.5 (.30)	65.3 (2.57)	M2.5	1.06 (150)
V50FLRM0505	V50FLSM0505		5 (.20)	16 (.63)	16 (.63)		7.5 (.30)	65.8 (2.59)		
V50FLRM0506	V50FLSM0506		6 (.24)	16 (.63)	16 (.63)		7.5 (.30)	65.8 (2.59)		
V50FLRM0606	V50FLSM0606	6 (.24)	6 (.24)	16 (.63)	16 (.63)	7.5 (.30)	7.5 (.30)	65.8 (2.59)	M2.5	1.27 (180)

NOTE: Fairloc® hubs require controlled shaft tolerances.  
Suggested tolerance according to g6, h6 or h7.

Fig. 2 Pin Type Hub

Catalog Number		d <sub>1</sub> Bore +0.013 (+.0005)	d <sub>2</sub> Bore +0.013 (+.0005)	D <sub>1</sub> Hub Dia.	D <sub>2</sub> Hub Dia.	Set Screw	Max. Torque N • m (oz. in.)
Ribbed Style	Smooth Style						
V50PLRM0303	V50PLSM0303	3 (.12)	3 (.12)	7.9 (.31)	7.9 (.31)	M2	0.71 (100)
V50PLRM0304	V50PLSM0304		4 (.16)		9.5 (.37)		
V50PLRM0306	V50PLSM0306		6 (.24)		12.7 (.50)		
V50PLRM0404	V50PLSM0404	4 (.16)	4 (.16)	9.5 (.37)	9.5 (.37)	M2	0.85 (120)
V50PLRM0406	V50PLSM0406		4 (.16)		12.7 (.50)		
V50PLRM0606	V50PLSM0606		6 (.24)		12.7 (.50)		

Other bore sizes and combinations available on special order.

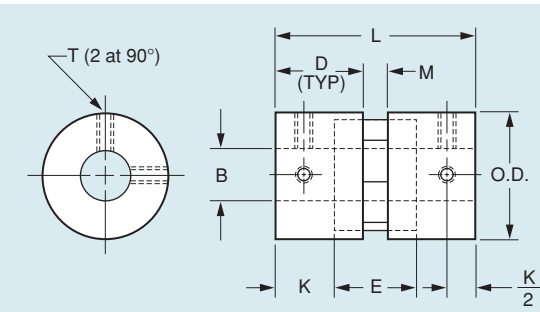


# Couplings – Flexible – Spline Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Spline – Hytrel or Polyurethane  
Hub – Zinc Alloy Die Casting (Sizes 16, 20, 25)  
– Sintered Metal (Size 32)

• **HYTREL SPLINE FOR HEAVY-DUTY**



## FEATURES:

- High rpm
- Electrically Isolated
- Dampens Shock & Vibration
- No Lubrication

## MISALIGNMENT COMPENSATION

- Max. Angular Offset – 2°
- Max. Lateral Offset – .008 (0.2)

## TEMPERATURE RANGE:

- Hytrel -22°F to +212°F (-30°C to +100°C)
- Polyurethane -4°F to +140°F (-20°C to +60°C)

Coupling Size	Rated Torque lb. in. (N • m)		Max. rpm
	Hytrel	Polyurethane	
16	6.6 (0.75)	4.4 (0.5)	24000
20	13.3 (1.5)	8.8 (1)	19000
25	20.4 (2.3)	13.3 (1.5)	15000
32	39.8 (4.5)	26.6 (3)	12000

NOTE: Dimensions in ( ) are mm.

Catalog Number <sup>Δ</sup>			O.D.	B Bore +.001 -.000 (+0.025 0)	L Length	D	K	E Spline Length	M	Spline Bore	T Set Screw	Max. Bore **
Complete Coupling	Hub Only	Spline Only										
V 5Z2□-1608	V 5D28-1608	V 5R2□-16	5/8 (15.9)	.250 (6.35)	1-1/16 (27)	15/32 (11.9)	5/16 (7.9)	7/16 (11.1)	1/8 (3.2)	15/64 (6)	#4-40	.315 (8)
V 5Z2□-2008	V 5D28-2008	V 5R2□-20	25/32 (19.8)	.250 (6.35)	1-11/32 (34.1)	19/32 (15.1)	25/64 (9.9)	35/64 (13.9)	5/32 (4)	5/16 (7.9)		.394 (10)
V 5Z2□-2012	V 5D28-2012	V 5R2□-20	25/32 (19.8)	.375 (9.53)	1-11/32 (34.1)	19/32 (15.1)	25/64 (9.9)	35/64 (13.9)	5/32 (4)	5/16 (7.9)	#6-32	.472 (12)
V 5Z2□-2508	V 5D28-2508	V 5R2□-25	1 (25.4)	.250 (6.35)	1-39/64 (40.9)	45/64 (17.9)	15/32 (11.9)	21/32 (16.7)	13/64 (5.2)	25/64 (9.9)		.591 (15)
V 5Z2□-2512	V 5D28-2512	V 5R2□-25	1 (25.4)	.375 (9.53)	1-39/64 (40.9)	45/64 (17.9)	15/32 (11.9)	21/32 (16.7)	13/64 (5.2)	25/64 (9.9)	#6-32	.472 (12)
V 5Z2□-3212	V 5D28-3212	V 5R2□-32	1-1/4 (31.8)	.375 (9.53)	1-57/64 (48)	53/64 (21)	9/16 (14.3)	25/32 (19.8)	15/64 (6)	15/32 (11.9)		.591 (15)
V 5Z2□-3216	V 5D28-3216	V 5R2□-32	1-1/4 (31.8)	.500 (12.7)	1-57/64 (48)	53/64 (21)	9/16 (14.3)	25/32 (19.8)	15/64 (6)	15/32 (11.9)	#6-32	.591 (15)

\*\*Other bore diameter combinations and bore sizes not exceeding the maximum listed above are available on special order.

<sup>Δ</sup>To complete the Catalog Number, specify:

8 for a Polyurethane Spline

9 for a Hytrel Spline

Example: For a Complete Coupling with a Polyurethane Spline, specify Catalog Number V 5Z28-2008.

SECTION 9

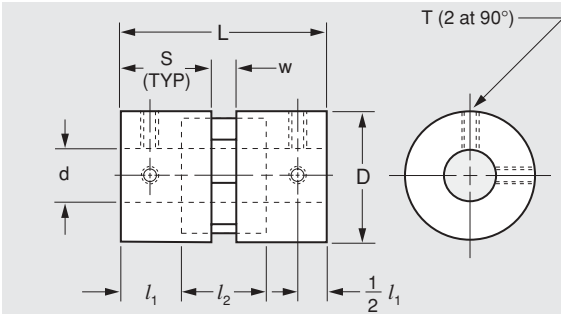


# Couplings – Flexible – Spline Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Spline – Hytrel or Polyurethane  
Hub – Zinc Alloy Die Casting (Sizes 16, 20, 25)  
– Sintered Metal (Size 32)

- **HYTREL SPLINE FOR HIGH-TORQUE AND HIGH-TEMPERATURE APPLICATIONS**



The projections are shown per ISO convention.

## Metric

### FEATURES:

- High rpm
- Electrically Isolated
- Dampens Shock & Vibration
- Blind Assembly
- No Lubrication

### MISALIGNMENT COMPENSATION

- Max. Angular Offset – 2°
- Max. Lateral Offset – 0.2 (.008)

### TEMPERATURE RANGE:

- Hytrel -30°C to +100°C (-22°F to +212°F)
- Polyurethane -20°C to +60°C (-4°F to +140°F)

Coupling Size	Rated Torque N · m (lb. in.)		Max. rpm
	Hytrel	Polyurethane	
16	0.75 (6.6)	0.5 (4.4)	24000
20	1.5 (13.3)	1 (8.8)	19000
25	2.3 (20.4)	1.5 (13.3)	15000
32	4.5 (39.8)	3 (26.6)	12000

NOTE: Dimensions in ( ) are inch.

Catalog Number <sup>Δ</sup>			D	d* Bore H8	L	S	l <sub>1</sub>	l <sub>2</sub>	w	Spline Bore	T Set Screw	Max. Bore **
Complete Coupling	Hub Only	Spline Only										
V 5Z2□M1603	V 5D28M1603	V 5R2□M16	16 (.63)	3 (.12)	27 (1.06)	12 (.47)	8 (.31)	11 (.43)	3 (.12)	6 (.24)	M3	8 (.31)
V 5Z2□M1604	V 5D28M1604			4 (.16)								
V 5Z2□M1605	V 5D28M1605			5 (.20)								
V 5Z2□M1606	V 5D28M1606			6 (.24)								
V 5Z2□M1608	V 5D28M1608	8 (.31)	20 (.79)	8 (.31)	34 (1.34)	15 (.59)	10 (.39)	14 (.55)	4 (.16)	8 (.31)	M3	10 (.39)
V 5Z2□M2005	V 5D28M2005	5 (.20)										
V 5Z2□M2006	V 5D28M2006	6 (.24)										
V 5Z2□M2008	V 5D28M2008	8 (.31)										
V 5Z2□M2010	V 5D28M2010	10 (.39)	25 (.98)	6 (.24)	41 (1.61)	18 (.71)	12 (.47)	17 (.67)	5 (.20)	10 (.39)	M4	12 (.47)
V 5Z2□M2506	V 5D28M2506	8 (.31)										
V 5Z2□M2508	V 5D28M2508	10 (.39)										
V 5Z2□M2512	V 5D28M2512	12 (.47)										
V 5Z2□M3208	V 5D28M3208	V 5R2□M32	32 (1.26)	8 (.31)	48 (1.89)	21 (.83)	14 (.55)	20 (.79)	6 (.24)	12 (.47)	M4	15 (.59)
V 5Z2□M3210	V 5D28M3210			10 (.39)								
V 5Z2□M3212	V 5D28M3212			12 (.47)								
V 5Z2□M3214	V 5D28M3214			14 (.55)								

\*Bore Tolerance:  
 3 mm +0.014 (.12 +.0006)  
 4, 5 & 6 mm +0.018 (.16, .20 & .24 +.0007)  
 8 & 10 mm +0.022 (.31 & .39 +.0009)  
 12 & 14 mm +0.027 (.47 & .55 +.001)

\*\*Other bore diameter combinations and bore sizes not exceeding the maximum listed above are available on special order.

<sup>Δ</sup>To complete the Catalog Number, specify:

- 8 for a Polyurethane Spline
- 9 for a Hytrel Spline

Example: For a Complete Coupling with a Hytrel Spline, specify Catalog Number V 5Z29M1604

SECTION 9

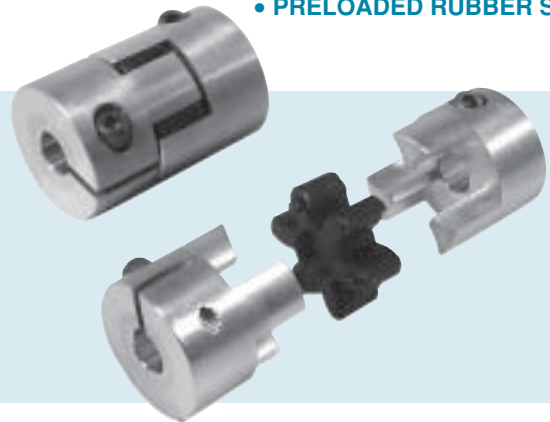
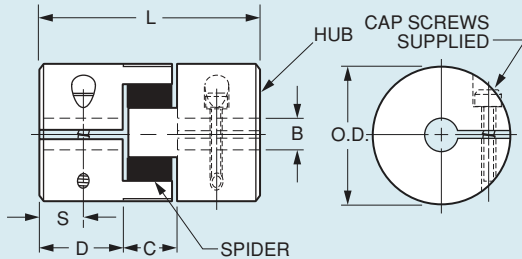


# Couplings – Flexible – Spider Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Hubs – Aluminum  
Spider – NBR Rubber – 86, 92 or 98 Durometer

• **SPLIT HUB**  
• **PRELOADED RUBBER SPIDER**



**COMPLETE COUPLING  
CATALOG NUMBER DESIGNATION:**  
(Consists of two hubs and a spider)

V 5 Z 2 7 - [ ] [ ] [ ] [ ] [ ]

Coupling Size Code  
Spider Durometer Code

**FEATURES:** Precision machined hub with integral fasteners & prestressed spiders which eliminate backlash. Allows limited axial motion.

**MISALIGNMENT COMPENSATION**  
Max. Angular Offset – 1°

**EXAMPLE:** V 5Z27-201092 is a 25/32 (19.8) O.D. coupling with a .3125 (7.9) bore & a 92 durometer spider.

**NOTE:** Dimensions in ( ) are mm.

Coupling Series (Ref. only)	D	L Overall Length	C Distance Between Flanges	D Length Through Bore	Rated Torque	Max. Axial Motion
V 5Z27-20...	25/32 (19.8)	1-3/16 (30.2)	25/64 (9.9)	7/16 (11.1)	See Spider Data	.030 (0.76)
V 5Z27-30...	1-3/16 (30.2)	1-37/64 (40.1)	15/32 (11.9)	19/32 (15.1)		.040 (1.02)
V 5Z27-40...	1-37/64 (40.1)	2-23/64 (59.9)	19/32 (15.1)	15/16 (23.8)		.050 (1.27)

## • HUB ONLY

Catalog Number	Coupling Size Code	O.D.	B Bore +.001 (+0.025) -.000 (0)	S	Cap Screw
V 5A27-2008	2008	25/32 (19.8)	.250 (6.35)	.20 (5.1)	#4-40
V 5A27-2010	2010		.3125 (7.94)		
V 5A27-3008	3008	1-3/16 (30.2)	.250 (6.35)	.27 (6.9)	#6-40
V 5A27-3010	3010		.3125 (7.94)		
V 5A27-3012	3012		.375 (9.53)		
V 5A27-4012	4012	1-37/64 (40.1)	.375 (9.53)	.43 (10.9)	#10-32
V 5A27-4016	4016		.500 (12.7)		
V 5A27-4020	4020		.625 (15.88)		

## • SPIDER ONLY

Catalog Number	O.D.	Durometer Code	Color	Temp. Range		Max. Lateral Offset	Rated Torque lb. in. (N • m)
				Operating	Maximum Nonoperating		
V 5R27-2086	25/32 (19.8)	86	Tan	-58°F to +175°F (-50°C to +79°C)	-76°F to +248°F (-60°C to +120°C)	.007 (0.178)	19 (2.1)
V 5R27-2092		92	Black				
V 5R27-2098		98	Rust				
V 5R27-3086	1-3/16 (30.2)	86	Tan	-40°F to +194°F (-40°C to +90°C)	-58°F to +248°F (-50°C to +120°C)	.008 (0.203)	48 (5.4)
V 5R27-3092		92	Black				
V 5R27-3098		98	Rust				
V 5R27-4086	1-37/64 (40.1)	86	Tan	-22°F to +194°F (-30°C to +90°C)	-48°F to +248°F (-44°C to +120°C)	.006 (0.152)	62 (7)
V 5R27-4092		92	Black				
V 5R27-4098		98	Rust				

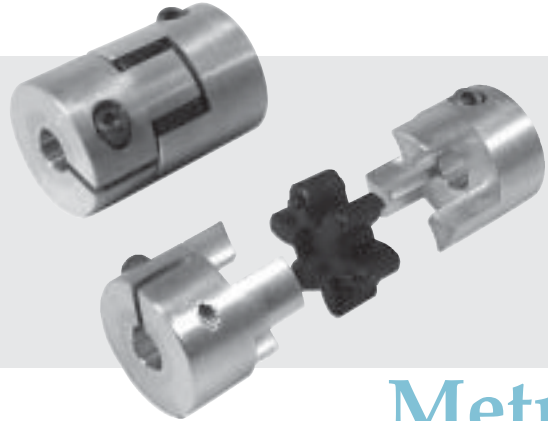
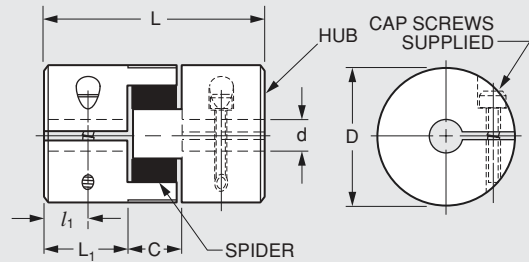


# Couplings – Flexible – Spider Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Hubs – Aluminum  
Spider – NBR Rubber - 86, 92 or 98 Durometer

• **SPLIT TYPE HUB**  
• **PRELOADED RUBBER SPIDER**



## Metric

**COMPLETE COUPLING  
CATALOG NUMBER DESIGNATION:**  
(Consists of two hubs and a spider)

V 5 Z 2 7 M

Coupling Size Code

Durometer Code

**FEATURES:** Precision machined hub with integral fasteners & prestressed spiders which eliminate backlash. Allows limited axial motion.

**MISALIGNMENT COMPENSATION**  
Max. Angular Offset – 1°

**EXAMPLE:** V 5Z27M200692 is a 20mm O.D. coupling with a 6mm bore & a 92 durometer spider.

**NOTE:** Dimensions in ( ) are inch.

Coupling Series (Ref. only)	D	L Overall Length	C Distance Between Flanges	L <sub>1</sub> Length Through Bore	Rated Torque	Max. Axial Motion
V 5Z27M20...	20 (.79)	30 (1.18)	10 (.39)	11 (.43)	See Spider Data	0.8 (.03)
V 5Z27M30...	30 (1.18)	40 (1.57)	12 (.47)	15 (.59)		1 (.04)
V 5Z27M40...	40 (1.57)	60 (2.36)	15 (.59)	24 (.94)		1.2 (.05)

### • HUB ONLY

Catalog Number	Coupling Size Code	D	d +0.025	L <sub>1</sub>	Cap Screw
V 5A27M2005	2005	20 (.79)	5 (.2)	5 (.2)	M3
V 5A27M2006	2006		6 (.24)		
V 5A27M2008	2008		8 (.31)		
V 5A27M3006	3006	30 (1.18)	6 (.24)	7 (.28)	M3
V 5A27M3008	3008		8 (.31)		
V 5A27M3010	3010		10 (.39)		
V 5A27M4010	4010	40 (1.57)	10 (.39)	11 (.43)	M4
V 5A27M4012	4012		12 (.47)		
V 5A27M4016	4016		16 (.63)		

### • SPIDER ONLY

Catalog Number	D	Durometer Code	Color	Temp. Range		Max. Lateral Offset	Rated Torque N • m (lb. in.)	
				Operating	Maximum Nonoperating			
V 5R27M2086	20 (.79)	86	Tan	-50°C to +80°C (-58°F to +176°F)	-60°C to +120°C (-76°F to +248°F)	0.18 (.007)	2.2 (19.47)	
V 5R27M2092		92	Black				0.13 (.005)	3 (26.55)
V 5R27M2098		98	Rust				0.08 (.003)	5 (44.25)
V 5R27M3086	30 (1.18)	86	Tan	-40°C to +90°C (-40°F to +194°F)	-50°C to +120°C (-58°F to +248°F)	0.21 (.008)	5.5 (48.68)	
V 5R27M3092		92	Black				0.15 (.006)	7.5 (66.38)
V 5R27M3098		98	Rust				0.09 (.004)	12.5 (110.63)
V 5R27M4086	40 (1.57)	86	Tan	-30°C to +90°C (-22°F to +194°F)	-40°C to +120°C (-40°F to +248°F)	0.14 (.006)	7 (61.96)	
V 5R27M4092		92	Black				0.1 (.004)	10 (88.51)
V 5R27M4098		98	Rust				0.06 (.002)	17 (150.47)

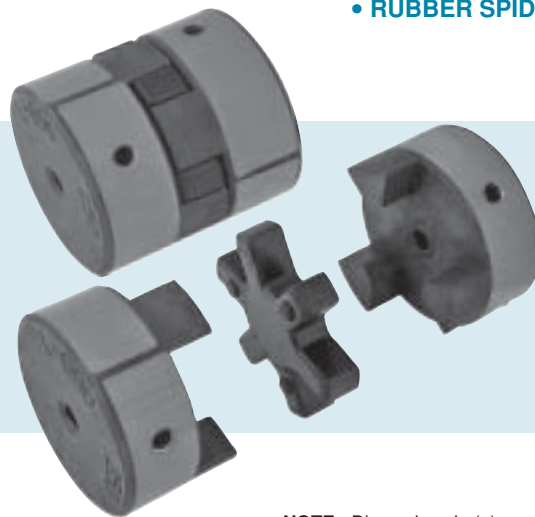
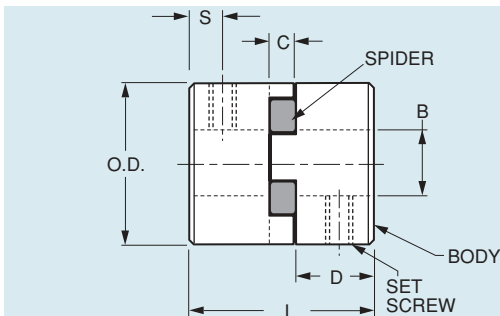


# Couplings – Flexible – Jaw Type

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• MATERIAL: Body – Sintered Iron  
Spider – NBR Rubber – 80 Durometer

• RUBBER SPIDER



## MISALIGNMENT COMPENSATION

Max. Angular Offset – 1°

Max. Lateral Offset – .015 (0.38)

NOTE: Dimensions in ( ) are mm.

Coupling Series (Reference Only)	O.D.	L Overall Length	C Distance Between Flanges	D Length Through Bore	Set Screw	S	Rated Torque lb. in. (N•m)	H.P. @ 1800 rpm
V 5Z 3-035..	5/8 (15.9)	13/16 (20.6)	9/32 (7.1)	17/64 (6.7)	#6 - 32	.13 (3.3)	3.5 (0.4)	.10
V 5Z 3-050..	1-5/64 (27.4)	1-23/32 (43.4)	15/32 (11.9)	5/8 (15.9)	1/4 - 20	.31 (7.9)	26.3 (3)	.75
V 5Z 3-070..	1-23/64 (34.5)	2 (50.8)	1/2 (12.7)	3/4 (19.1)	1/4 - 20	.38 (9.7)	43.2 (4.9)	1.20
V 5Z 3-075..	1-3/4 (44.5)	2-1/8 (54)	1/2 (12.7)	13/16 (20.6)	1/4 - 20	.31 (7.9)	90.0 (10.2)	2.50
V 5Z 3-090..	2-7/64 (53.6)	2-1/8 (54)	1/2 (12.7)	13/16 (20.6)	1/4 - 20	.44 (11.2)	144.0 (16.3)	4.00

NOTE: If couplings are run at 3600 rpm, H.P. values shown in table can be doubled.

Catalog Number			B Bore Size	Approximate Weight @ Max. Bore lb. (kg)	Windup @ Maximum Torque deg.
Complete Coupling	Body Only	Spider Only			
V 5Z 3-03504	V 5D 3-03504	V 5R 3-035 *	1/8 (3.18)	.1 (0.05)	5.0
V 5Z 3-03506	V 5D 3-03506		3/16 (4.76)		
V 5Z 3-03508	V 5D 3-03508		1/4 (6.35)		
V 5Z 3-03510	V 5D 3-03510		5/16 (7.94)		
V 5Z 3-03512	V 5D 3-03512		3/8 (9.53)		
V 5Z 3-05008	V 5D 3-05008	V 5R 3-050 *	1/4 (6.35)	.2 (0.09)	4.5
V 5Z 3-05010	V 5D 3-05010		5/16 (7.94)		
V 5Z 3-05012	V 5D 3-05012		3/8 (9.53)		
V 5Z 3-05014	V 5D 3-05014		7/16 (11.11)		
V 5Z 3-05016	V 5D 3-05016		1/2 (12.7)		
V 5Z 3-07012	V 5D 3-07012	V 5R 3-070	3/8 (9.53)	.4 (0.18)	3.5
V 5Z 3-07014	V 5D 3-07014		7/16 (11.11)		
V 5Z 3-07016	V 5D 3-07016		1/2 (12.7)		
V 5Z 3-07508	V 5D 3-07508		1/4 (6.35)		
V 5Z 3-07510	V 5D 3-07510		5/16 (7.94)		
V 5Z 3-07512	V 5D 3-07512	V 5R 3-075	3/8 (9.53)	.8 (0.36)	4.7
V 5Z 3-07514	V 5D 3-07514		7/16 (11.11)		
V 5Z 3-07516	V 5D 3-07516		1/2 (12.7)		
V 5Z 3-09008	V 5D 3-09008		1/4 (6.35)		
V 5Z 3-09010	V 5D 3-09010		5/16 (7.94)		
V 5Z 3-09012	V 5D 3-09012	V 5R 3-090	3/8 (9.53)	1.2 (0.54)	3.2
V 5Z 3-09014	V 5D 3-09014		7/16 (11.11)		
V 5Z 3-09016	V 5D 3-09016		1/2 (12.7)		

NOTE: Complete coupling consists of two bodies plus spider.

\* These spiders have four legs only.

SECTION 9

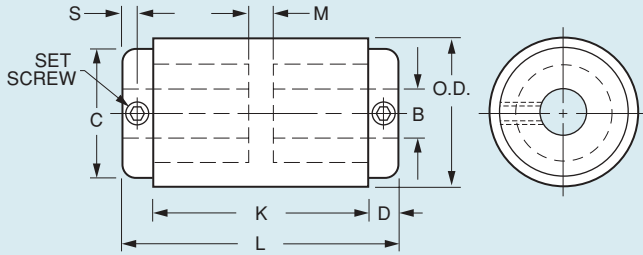
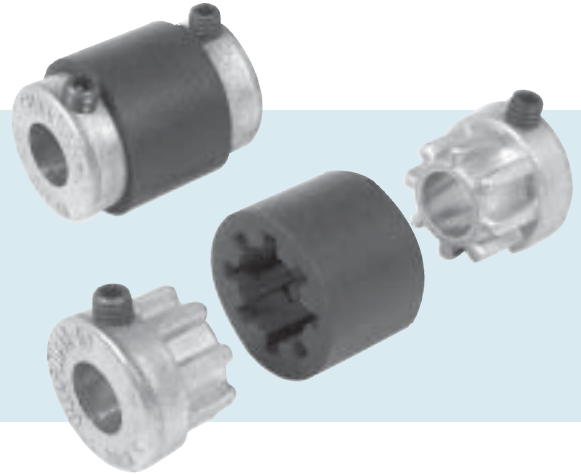




# Couplings – Flexible – Geargrip

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- **MATERIAL:** Sleeve – Neoprene with Ground O.D.  
Hub – Zinc Alloy Die Casting



## FEATURES:

- No Lubrication
- Electrically Isolated
- Dampens Shock & Vibration

NOTE: Dimensions in ( ) are mm.

Coupling Size	Nominal Torque lb. in. (N • m)	H.P. @ 1750 rpm	Max. Angular Offset	Max. Lateral Offset	Max. Speed	Operating Temperature
11	6 (0.7)	.17	1°	.015 (0.38)	3500 rpm	-20°F to +160°F (-29°C to +71°C)
18	12 (1.4)	.33	1°	.015 (0.38)		
21	18 (2)	.50	1°30'	.020 (0.51)		
31	60 (6.8)	1.66	2°	.025 (0.64)		

Catalog Number			B Bore +.002 (0.050) -.001 (0.025)	O.D. ±1/16 (±1.6)	L ±1/16 (±1.6)	C	D	K ±1/16 (±1.6)	M	S	Set Screw
Complete Coupling	Hub Only	Sleeve Only									
V 5Z 1-1104	V 5D 1-1104	V 5R 1-11	.125 (3.18)	.78 (19.8)	1 (25.4)	.70 (17.8)	7/32 (5.6)	.56 (14.2)	1/32 (0.8)	1/8 (3.2)	#6-32
V 5Z 1-1106	V 5D 1-1106		.188 (4.78)								
V 5Z 1-1108	V 5D 1-1108		.250 (6.35)								
V 5Z 1-1110	V 5D 1-1110		.3125 (7.94)								
V 5Z 1-1112	V 5D 1-1112	.375 (9.53)	1.17 (29.7)	1-1/2 (38.1)	1.15 (29.2)	5/16 (7.9)	.90 (22.9)	3/64 (1.2)	5/32 (4)	1/4-20	
V 5Z 1-1810	V 5D 1-1810	.3125 (7.94)									
V 5Z 1-1812	V 5D 1-1812	.375 (9.53)									
V 5Z 1-1814	V 5D 1-1814	.438 (11.13)									
V 5Z 1-1816	V 5D 1-1816	.500 (12.7)	1.17 (29.7)	2-1/4 (57.2)	1.15 (29.2)	5/16 (7.9)	1-19/32 (40.5)	1/16 (1.6)	5/32 (4)	1/4-20	
V 5Z 1-2110	V 5D 1-2110	.3125 (7.94)									
V 5Z 1-2112	V 5D 1-2112	.375 (9.53)									
V 5Z 1-2114	V 5D 1-2114	.438 (11.13)									
V 5Z 1-2116	V 5D 1-2116	.500 (12.7)	1.43 (36.3)	2-3/8 (60.3)	1.45 (36.8)	3/8 (9.5)	1-19/32 (40.5)	1/16 (1.6)	3/16 (4.8)	1/4-20	
V 5Z 1-3112	V 5D 1-3112	.375 (9.53)									
V 5Z 1-3114	V 5D 1-3114	.438 (11.13)									

SECTION 9



# Couplings – Flexible "K" Type

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- **MATERIAL:** Hubs – Steel, Zinc Plated  
Body – Polyurethane

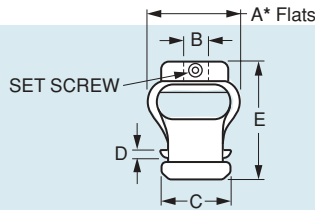


Fig. 1 STANDARD HUB



Fig. 1

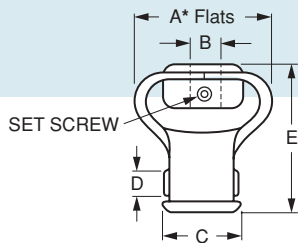


Fig. 2 INVERTED HUB



Fig. 2

### OUTSTANDING HUB FEATURES

- Annealed steel for maximum strength
- Zinc plating to resist corrosion
- Inside hub to decrease overall length
- Rounded corners to prevent cutting
- Precision swaged mechanical crimp
- Accommodates standard size set screws

### UNIQUE, DURABLE ELEMENT

- Speeds up to 3600 rpm
- Tough polyurethane material is strong, flexible, cut- and tear- resistant
- Unique configuration gives maximum flexibility
- Generous radius for added strength
- Ozone-proof
- Full wraparound design stays securely in hub

TEMPERATURE RANGE : -4°F to +140°F  
-20°C to +60°C

NOTE: Dimensions in ( ) are mm.

Catalog Number	Fig. No.	Dimensions						Set Screw	Max. Torque Capacity lb.in. (N·m)	Max. Angular Offset	Max. Lateral Offset									
		A*		B Bore +.002 -.000 (+.051 0)	C	D	E													
		Flats	Points																	
V 5Z 7-10606	1	55/64 (21.8)	1-1/8 (28.6)	.1875 (4.76)	11/16 (17.5)	1/16 (1.6)	1-3/16 (30.16)	#6-32	3 (0.3)	10°	3/32 (2.4)									
V 5Z 7-10808				.250 (6.35)																
V 5Z 7-11010				.312 (7.92)																
V 5Z 7-11212				.375 (9.53)																
V 5Z 7-20808	2	1-5/8 (41.3)	1-7/8 (47.6)	.250 (6.35)	1 (25.4)	3/8 (9.5)	1-7/8 (47.6)	#10-24	12 (1.4)	15°	1/8 (3.2)									
V 5Z 7-21010				.312 (7.92)																
V 5Z 7-21212				.375 (9.53)																
V 5Z 7-21414				.438 (11.13)																
V 5Z 7-21616				.500 (12.7)																
V 5Z 7-31212				.375 (9.53)																
V 5Z 7-31414				.438 (11.13)																
V 5Z 7-31616				.500 (12.7)																
V 5Z 7-41616				1-53/64 (46.4)								2-1/8 (54)	.438 (11.13)	1-1/8 (28.6)	7/16 (11.1)	2-1/4 (57.2)	1/4-20	28 (3.2)	15°	3/16 (4.8)
V 5Z 7-41616				1-55/64 (47.2)								2-9/64 (54.4)	.500 (12.7)	1-1/8 (28.6)	3/8 (9.5)	2-7/16 (61.9)	1/4-20	40 (4.5)	15°	1/8 (3.2)



# Couplings – Flexible "K" Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Hubs – Steel, Zinc Plated  
Body – Polyurethane

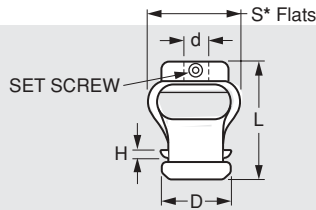


Fig. 1 STANDARD HUB



Fig. 1

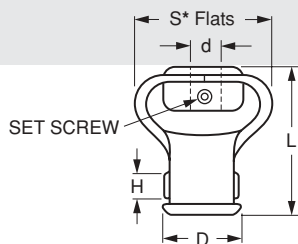


Fig. 2 INVERTED HUB



Fig. 2

Metric

## OUTSTANDING HUB FEATURES

- Annealed steel for maximum strength
- Zinc plating to resist corrosion
- Inside hub to decrease overall length
- Rounded corners to prevent cutting
- Precision swaged mechanical crimp
- Accommodates standard size set screws

## UNIQUE, DURABLE ELEMENT

- Speeds up to 3600 rpm
- Tough polyurethane material is strong, flexible, cut- and tear- resistant
- Unique configuration gives maximum flexibility
- Generous radius for added strength
- Ozone-proof
- Full wraparound design stays securely in hub

NOTE: Dimensions in ( ) are inch.

TEMPERATURE RANGE: -20°C to +60°C  
-4°F to +140°F

Catalog Number	Fig. No.	Dimensions						Set Screw	Max. Torque Capacity N·m (lb.in.)	Max. Angular Offset	Max. Lateral Offset
		S*		d Bore +0.05 (+.002)	D	H	L				
		Flats	Points								
V 5Z 7M10606	1	24 (.94)	28 (1.10)	6 (.24)	17.5 (.69)	0.8 (.03)	30 (1.18)	M3	0.4 (3.54)	10°	2.4 (.09)
V 5Z 7M10808				8 (.31)							
V 5Z 7M11010				10 (.39)							
V 5Z 7M21010	2	43 (1.69)	47 (1.85)	10 (.39)	25.4 (1.00)	8.5 (.33)	48 (1.89)	M5	1.4 (12.39)	15°	3.2 (.13)
V 5Z 7M21414				14 (.55)							
V 5Z 7M41414				14 (.55)							
V 5Z 7M41616				16 (.63)							

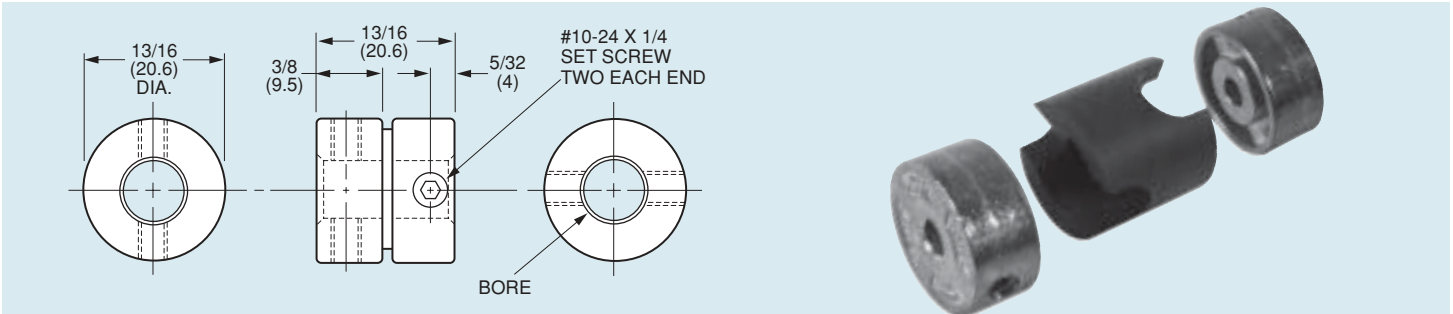
SECTION 9



# Couplings – Flexible – Bantam

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- **MATERIAL:** Hubs – Zinc Alloy Die Cast, Chromated  
Sleeve – Natsyn™ Polyisoprene Rubber



### FEATURES:

Isolates vibration up to 85%  
Sleeve provides electrical insulation

### CAPACITY RATING:

1/20 hp @ 1725 rpm or 30 oz. in.  
(0.21 N•m)

### MISALIGNMENT COMPENSATION

Max. Angular Offset – 1-1/2°  
Max. Lateral Offset – .010 (0.25)

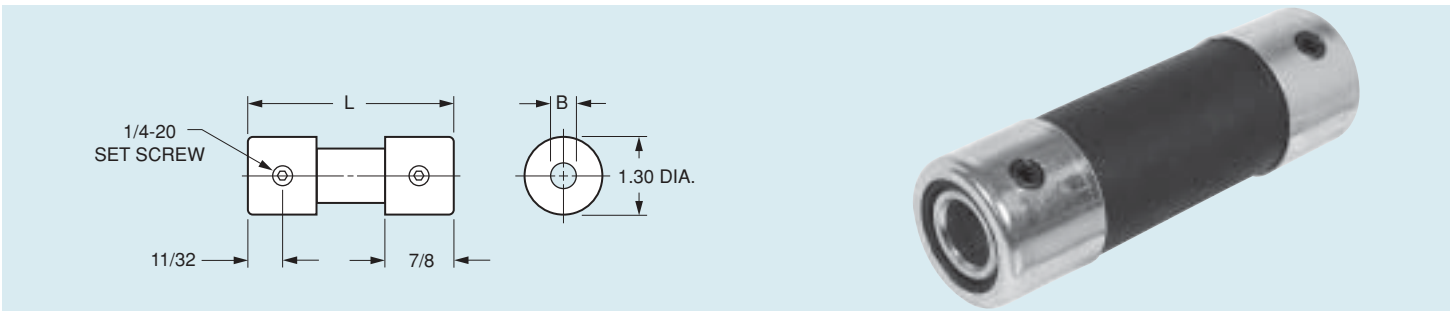
NOTE: Dimensions in ( ) are mm.

Catalog Number			Bore +.0015 (+0.038) -.0000 ( 0 )
Complete Coupling	Hub Only	Sleeve Only	
V 5Z25-104	V 5D25-104	V 5R25-1	1/8 (3.2)
V 5Z25-106	V 5D25-106		3/16 (4.8)
V 5Z25-108	V 5D25-108		1/4 (6.4)
V 5Z25-110	V 5D25-110		5/16 (7.9)

# Couplings – Flexible – One-Piece

- **MATERIAL:** Hubs – Steel  
Sleeves – Buna Nitrile Rubber

- **ONE-PIECE CONSTRUCTION**



### CAPACITY RATING:

Rated 1/2 hp @ 1725 rpm

### MISALIGNMENT COMPENSATION

Max. Angular Offset – 7°  
Max. Lateral Offset – 1/8 (3.2)

NOTE: Dimensions in ( ) are mm.

Catalog Number	B Bore	L Length
V 5R 5-2516	1/2 (12.7)	2-1/2 (63.5)
V 5R 5-3016		3 (76.2)
V 5R 5-3516		3-1/2 (88.9)

SECTION 9