

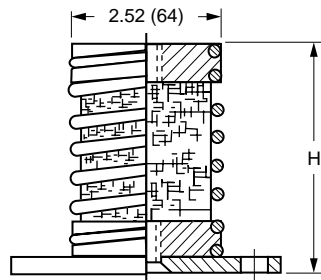
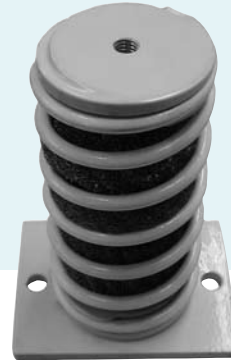
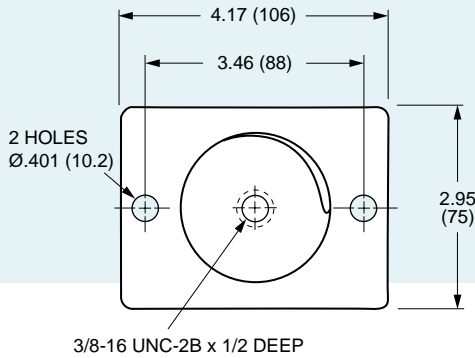


Spring Mounts – Damped Type – To 200 lbs.

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Base Plate – Mild Steel
Spring – High-Tensile Steel - Phosphated & Dyed Black
Isolator – Knitted Stainless Steel Mesh
End Cap – Cast 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: -94°F to +347°F (-70°C to +175°C)

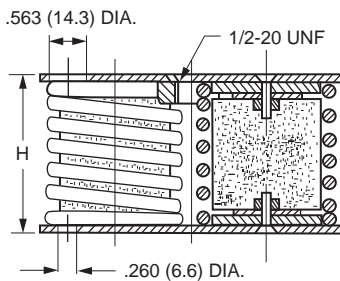
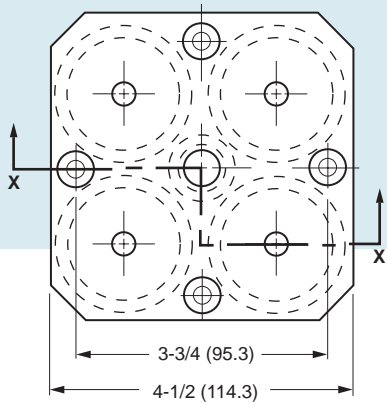
Catalog Number	Static Load		Natural Frequency Hz	H - Height			
				Free		Max.Load	
	lb.	kgf		in.	mm	in.	mm
V10Z30-2273	60 – 90	27 – 40	2 – 2-1/2	5.7	145	3	76
V10Z30-2274	90 – 135	40 – 61					
V10Z30-2275	135 – 200	61 – 90					



Spring Mounts – Damped Type – To 750 lbs.

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- **MATERIAL:** Mounting Plates – Mild Steel, Painted
 Springs – 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

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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

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

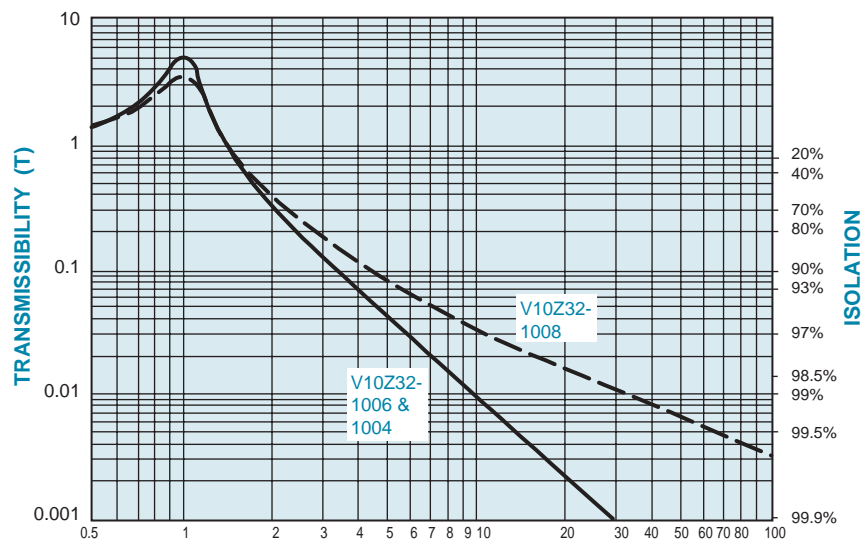
discard 1008 as it has $f_n = 9$ to 7 Hz

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.



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

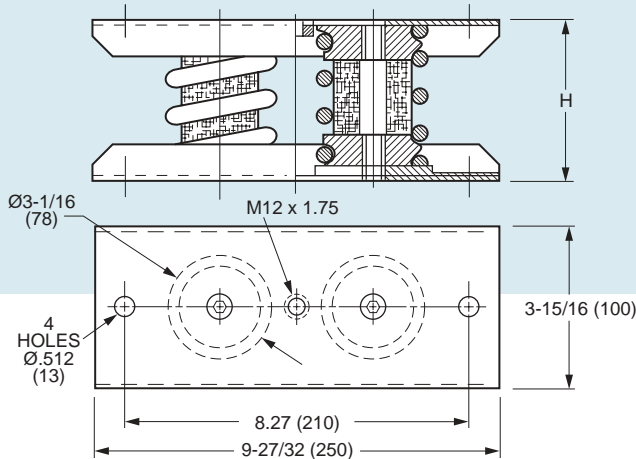
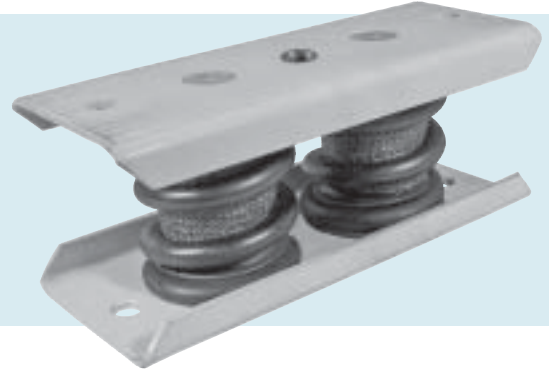


Spring Mounts – Damped Type – To 2469 lbs.

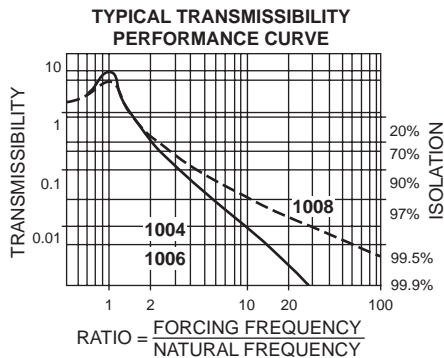
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- **MATERIAL:** Mounting Plates – Mild Steel, Painted
Springs – High-Tensile Steel; Phosphated, Dyed Black
Isolator – Knitted Stainless Steel Mesh

- **CORROSIVE ENVIRONMENT**
● **STAINLESS STEEL MESH**
● **FOR LOADS OF 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: -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