

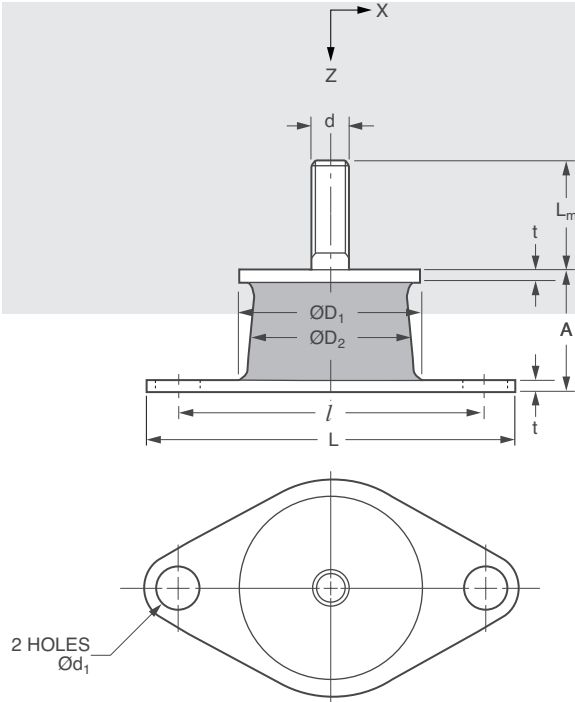


Base Mounts – Flange Type (Male)

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

• **MATERIAL:** Isolator – Rubber
Plates & Screw – Steel

• **FOR LOADS UP TO 850 kgf (1874 lbf)**



Metric

FEATURES:

- Simple design and economical
- Can be installed in small space
- Can support heavy loads due to the relatively high spring constant
- Allows mounting in various orientations in compression, shear and slanted angle loading

The projections shown are per ISO convention.

Catalog Number	A	D ₁	D ₂	L	l	L _m	d	d ₁	t
V11Z51MMKB020	15 (.59)	20 (.79)	15 (.59)	49 (1.93)	36 (1.42)	15 (.59)	M6	7 (.28)	2 (.08)
V11Z51MMKB025	18 (.71)	25 (.98)	20 (.79)	56 (2.20)	42 (1.65)	18 (.71)			
V11Z51MMKB030	18 (.71)	30 (1.18)	25 (.98)	62 (2.41)	48 (1.89)	24 (.94)	M8	7 (.28)	2.3 (.09)
V11Z51MMKB035	26 (1.02)	35 (1.38)	30 (1.18)	69 (2.72)	53 (2.09)				

Catalog Number	Nominal Load Z direction kgf (lb.)	*Max. Allowable Load		Spring Rate in Z dir. Kz kgf/cm (lb./in.)	Stiffness Ratio Kx/Kz
		X direction kgf (lb.)	Z direction kgf (lb.)		
V11Z51MMKB020	16 (35.3)	7 (15.4)	29 (63.9)	130 (728)	0.15
V11Z51MMKB025	25 (55.1)	10 (22.0)	50 (110.2)	200 (1120)	0.16
V11Z51MMKB030	46 (101.4)	17 (37.5)	91 (200.6)	320 (1792)	0.16
V11Z51MMKB035	50 (110.2)	25 (55.1)	100 (220.5)	240 (1344)	0.17

*Includes static and dynamic loads.
NOTE: Dimensions in () are inch.

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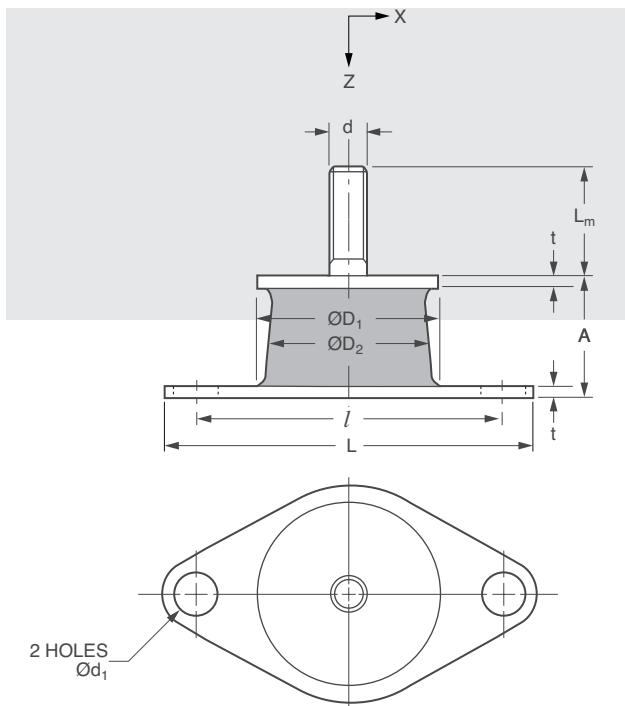
Base Mounts

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Plates & Screw – Steel

• **FOR LOADS UP TO 850 kgf (1874 lbf)**



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Catalog Number	A	D ₁	D ₂	L	l	L _m	d	d ₁	t
V11Z51MMKB040	25 (.98)	40 (1.57)	34 (1.34)	76 (2.99)	60 (2.36)	30 (1.18)	M8	9 (.35)	2.3 (.09)
V11Z51MMKB050	27 (1.06)	50 (1.97)	42 (1.65)	93 (3.66)	73 (2.87)	30 (1.18)	M10	11.5 (.45)	3.2 (.13)
V11Z51MMKB060	30 (1.18)	60 (2.36)	52 (2.05)	104 (4.09)	84 (3.31)	35 (1.38)	M12	11.5 (.45)	3.2 (.13)
V11Z51MMKB080	40 (1.57)	80 (3.15)	70 (2.76)	136 (5.35)	108 (4.25)	45 (1.77)		13.5 (.53)	4.5 (.18)

Catalog Number	Nominal Load Z direction kgf (lb.)	*Max. Allowable Load		Spring Rate in Z dir. Kz kgf/cm (lb./in.)	Stiffness Ratio Kx/Kz
		X direction kgf (lb.)	Z direction kgf (lb.)		
V11Z51MMKB040	95 (209.4)	37 (81.6)	185 (407.9)	350 (1960)	0.17
V11Z51MMKB050	125 (275.6)	60 (132.3)	250 (551.2)	620 (3472)	
V11Z51MMKB060	190 (418.9)	76 (167.6)	380 (837.8)	800 (4480)	0.16
V11Z51MMKB080	425 (937.0)	200 (440.9)	850 (1873.9)	1380 (7728)	0.15

*Includes static and dynamic loads.

NOTE: Dimensions in () are inch.

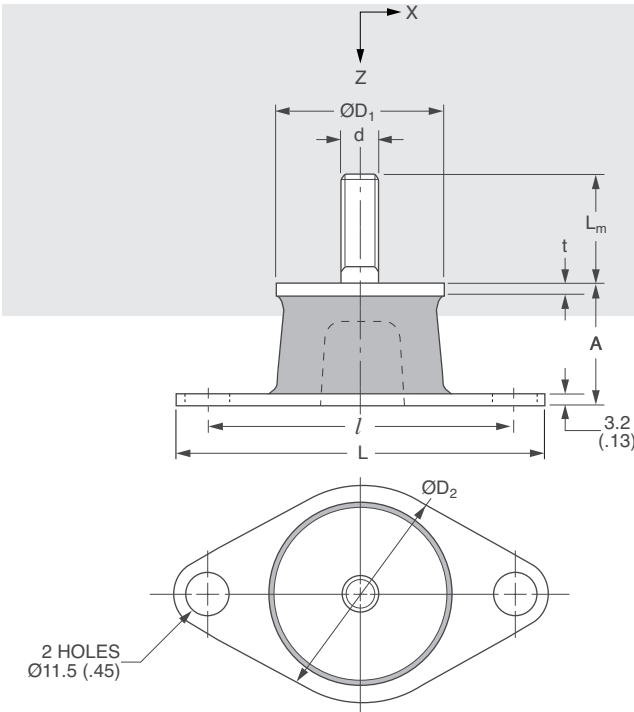


Base Mounts – Hollow Flange Type

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Isolator – Rubber
Plates & Screw – Steel

- **FOR LOADS UP TO 160 kgf (352.7 lbf)**



The projections shown are per ISO convention.



Metric

FEATURES:

- Simple design and economical
- Can be installed in small space
- Can support heavy loads due to the relatively high spring constant
- Allows mounting in various orientations in compression and slanted angle loading



Base Mounts

Catalog Number	A	D ₁	D ₂	L	l	L _m	d	t	Load Z direction		Spring Rate in Z dir. Kz kgf/cm (lb./in.)	Stiffness Ratio Kx/Kz
									Nominal kgf (lb.)	* Max. kgf (lb.)		
V11Z50MMKLB3530	30 (1.18)	35 (1.38)	50 (1.97)	93 (3.66)	73 (2.87)	24 (.94)	M8	2.3 (.09)	14 (30.9)	29 (63.9)	56 (313.6)	0.18
V11Z50MMKLB3545									26 (57.3)	50 (110.2)	100 (560)	
V11Z50MMKLB3560									41 (90.4)	80 (176.4)	160 (896)	
V11Z50MMKLB5030	35 (1.38)	50 (1.97)	60 (2.36)	104 (4.09)	84 (3.31)	30 (1.18)	M10	3.2 (.13)	36 (79.4)	70 (154.3)	120 (672)	0.16
V11Z50MMKLB5045									50 (110.2)	100 (220.5)	170 (952)	
V11Z50MMKLB5060									80 (176.4)	160 (352.7)	280 (1568)	

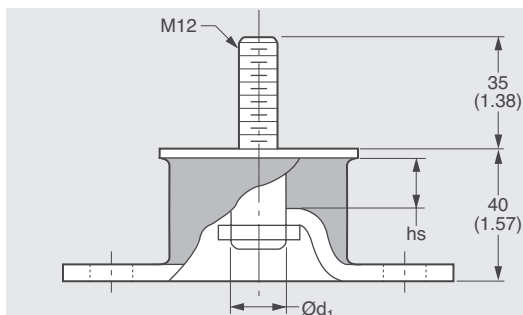
*Includes static and dynamic loads.

NOTE: Dimensions in () are inch.

Base Mounts – with Internal Stopper

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- MATERIAL:** Isolator – Natural Rubber
Plates & Screw – Steel, Zinc Plated



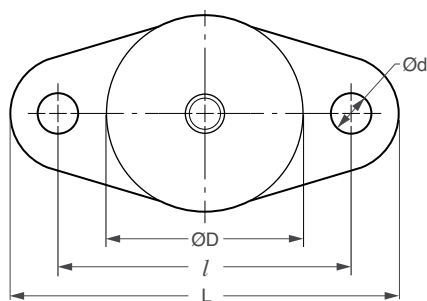
Metric

APPLICATIONS

- TRANSFORMERS
- ELECTRIC DISTRIBUTION PANELS
- UNINTERRUPTIBLE POWER SUPPLIES
- DISTRIBUTION PIPE SUPPORTS
- VENTILATION UNITS

FEATURES:

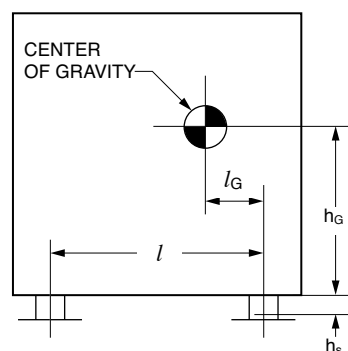
- The built-in stopper for earthquake protection reduces parts count and installation labor leading to cost reduction.
- Reduces space requirement for installation.



The projections shown are per ISO convention.

Catalog Number	D	L	l	d	Max. Allowable Load kgf (lb.)	Spring Rate kgf/cm (lb./in.)	Stopper Specification					
							Tensile Strength kgf (lb.)	Shear Strength kgf (lb.)	d ₁	A _e cm ² (in. ²)	h _s	Z cm ³ (in. ³)
V11Z55MMSB050	50 (1.97)	106 (4.17)	70 (2.76)	12 (.47)	82 (180.8)	250 (1400)	330 (727.5)	160 (352.7)	12 (.47)	1.13 (.18)	19 (.75)	0.17 (.01)
V11Z55MMSB060	60 (2.36)	121 (4.76)	85 (3.35)		200 (440.9)	820 (4592)	820 (1807.8)	820 (903.9)	17 (.67)	2.27 (.35)	15 (.59)	0.48 (.03)
V11Z55MMSB080	80 (3.15)	141 (5.55)	105 (4.13)	14.5 (.57)	410 (903.9)	1630 (9128)	1630 (3593.5)	820 (1807.8)	19 (.75)	2.84 (.44)	12 (.47)	0.67 (.04)

- NOTES:** 1. Dimensions in () are inch.
2. Not usable for machines with large vibration amplitude such as engines and compressors.



Antiearthquake Strength Formula:

$$\text{Tensile Force } T = \frac{m \cdot g \{K_H \cdot h_G - (1 - K_V) \cdot l_G\}}{l \cdot n_t}$$

$$\text{Shearing Force } S = \frac{K_H \cdot m \cdot g}{n}$$

$$\text{Shearing Stress } \tau = \frac{S}{A_e}$$

$$\text{Combined Stress } \sigma_{tb} = \frac{T}{A_e} + \frac{S \cdot h_s \cdot 0.1}{Z}$$

- m** = mass of the equipment (kg)
- K_H** = design value of horizontal vibration
- K_V** = design value of vertical vibration
- n_t** = number of stoppers on one side
- n** = total number of stoppers
- A_e** = effective cross-sectional area of stopper (cm²)
- h_s** = height of stopper
- Z** = stopper (cm³)
- g** = gravitational acceleration (m/s²)

Evaluation: $\tau \leq f_s$ (short term allowable shearing stress: 132 N/mm²)
 $\sigma_{tb} \leq f_b$ (short term allowable bending stress: 235 N/mm²)

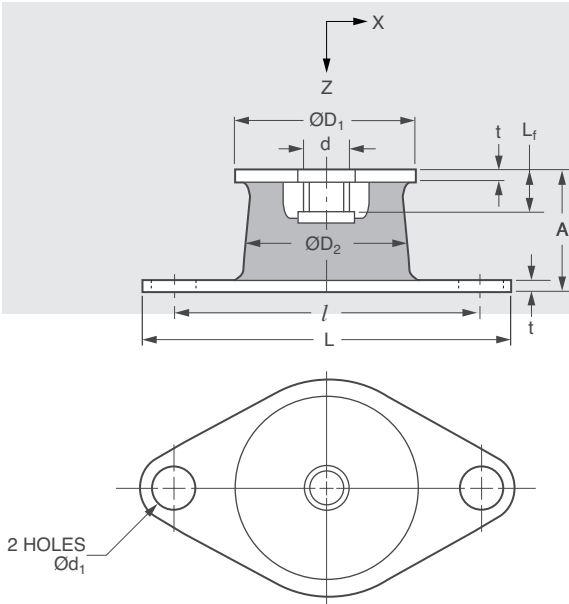


Base Mounts – Flange Type (Female)

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Isolator – Rubber
Plates – Steel
Nut – Steel

- **FOR LOADS UP TO 280 kgf (617.3 lbf)**



Metric

FEATURES:

- Simple design and easy to install
- Embedded nut allows smaller space for attaching bolt
- Allows mounting in various orientations in compression, shear and slanted angle loading

The projections shown are per ISO convention.

Catalog Number	A	D ₁	D ₂	L	l	L _f	d	d ₁	t	
V11Z51MFRB020	15 (.59)	20 (.79)	15 (.59)	49 (1.93)	36 (1.42)	5 (.20)	M6	7 (.28)	2 (.08)	
V11Z51MFRB025	18 (.71)	25 (.98)	20 (.79)	56 (2.2)	42 (1.65)	6 (.24)			2.3 (.09)	
V11Z51MFRB030	18 (.71)	30 (1.18)	25 (.98)	62 (2.44)	48 (1.89)	7.2 (.28)	M8	7 (.28)	2.3 (.09)	
V11Z51MFRB035	26 (1.02)	35 (1.38)	30 (1.18)	69 (2.72)	53 (2.09)					9 (.35)
V11Z51MFRB040	25 (.98)	40 (1.57)	34 (1.34)	76 (2.99)	60 (2.36)					9 (.35)
V11Z51MFRB050	27 (1.06)	50 (1.97)	42 (1.65)	93 (3.66)	73 (2.87)	9.2 (.36)	M10	11.5 (.45)	3.2 (.13)	

Catalog Number	Nominal Load Z direction kgf (lb.)	*Max. Allowable Load		Spring Rate in Z dir. Kz kgf / cm (lb. / in.)	Stiffness Ratio Kx / Kz
		X direction kgf (lb.)	Z direction kgf (lb.)		
V11Z51MFRB020	16 (35.3)	7 (15.4)	29 (63.9)	180 (1008)	0.18
V11Z51MFRB025	29 (63.9)	10 (22)	59 (130.1)	220 (1232)	0.19
V11Z51MFRB030	85 (187.4)	25 (55.1)	170 (374.8)	620 (3472)	0.15
V11Z51MFRB035	56 (123.5)	27 (59.5)	110 (242.5)	260 (1456)	0.24
V11Z51MFRB040	71 (156.5)	33 (72.8)	145 (319.7)	350 (1960)	0.23
V11Z51MFRB050	140 (308.6)	48 (105.8)	280 (617.3)	680 (3808)	0.17

*Includes static and dynamic loads.
NOTES: Dimensions in () are inch.


 Base Mounts