
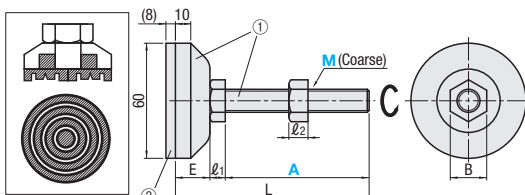


Leveling Mounts / Antivibration Attachments

Antivibration



FJFNV FJFNVC (Non-migration Rubber Type)



Detail of Rubber Part

Type	① Main Body		② Rubber Part	
	M Material	S Surface Treatment	M Material	H Hardness
FJFNV	FC250 (Screw, Nut SS400)	Trivalent Chromate	Chloroprene Rubber	Shore A70 (M10, 12) Shore A90 (M16)
FJFNVC			Non-Migration Chloroprene Rubber (Grl)	

Part Number Type	M-A	L	ℓ ₁	ℓ ₂	E	B	Vertical Load Range (kN)	Mass (g)	Unit Price	
									FJFNV	FJFNVC
FJFNV FJFNVC	10-75	100	7	8	18	17	2.0~7.0	322		
	10-100	125						333		
	12-75	101						342		
	12-100	126						360		
	12-125	151						379		
	12-150	176						395		
	16-75	103	10	13	24	3.5~12.0	438			
	16-100	128					449			
	16-130	158					508			
	16-150	178					536			
	16-180	208					574			

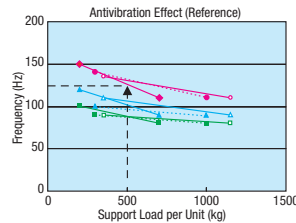
Ordering Example **Part Number**
FJFNVC16-75

Antivibration Effect
This product's antivibration effects (vibration transmissibility) heavily depend on applied loads and frequency of supported objects (natural frequency). The graph on the right shows anticipated antivibration effects of this product calculated from frequency.

How to Select

- Calculations of Applied Load per Unit
Ex) When an object of 2000 kg is supported by 4 points, 2000/4=500(kgf)
- Evaluation of the natural frequency of the object. Frequency = Vibrations per Second
Ex) When motor speed is 7200rpm, 7200(rpm)/60(s)=120(Hz)


With data obtained from ① and ② plotted on the graph, applicable screw diameter (M) and vibration transmissibility under above condition are found.



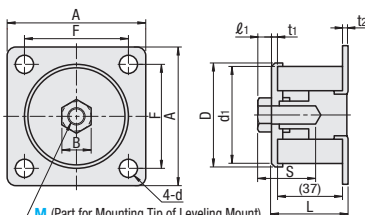
Nominal Tr (Vibration Transmissibility)

Ex) When FJFNVC10 is selected with 500kg per-foot supported load, 125Hz or more vibration transmissibility is reduced to 1/30 at most.

Antivibration Attachments



KMBU KMBS



M (Part for Mounting Tip of Leveling Mount)

Part Number	M Material	S Surface Treatment	H Hardness
KMBU Plate	SPCC	Trivalent Chromate	-
KMBU Main Body	S45C	Trivalent Chromate	-
KMBU Damper	Chloroprene Rubber	-	Shore 60
KMBS Plate	SUS304	-	-
KMBS Main Body	SUS304	-	-
KMBS Damper	Chloroprene Rubber	-	Shore 60

Part Number Type	M	Damper Hardness	Main Body							Hold Down Plate			Vertical Load (kN)	Mass (g)	Unit Price		
			L	D	d ₁	S	t ₁	B	ℓ ₁	A	F	t ₂			d	KMBU	KMBS
KMBU KMBS	6	N	42	45	40	28	2.5	10	3.5	80	60	2.3	8.5	1	260		
	8		43	55	50	30	3.5	13	5					1.5	340		
	10		44	60	55	31	3.5	17	6					2	420		
	12		44	72	67	32	3.5	19	7					2.5	630		
	*16		44.5	88	83	33	4	24	10					3	1000		
	*20		45	103	98	34	4	30	12					3.5	1220		

* M16 and 20 are available for KMBU only.

Ordering Example **Part Number** - Damper Hardness
KMBU10 - N

Features

- Suitable for vibration countermeasures for vibratory equipment and machinery.
- Can be used with Leveling Mounts with less than 5° inclination.
- Damper will not stain floor since not in contact with the floor.

How to Select

This product's antivibration effects (vibration transmissibility) heavily depend on applied loads and frequency of supported objects (natural frequency). The graph on the right shows anticipated antivibration effects of this product calculated from frequency.

① Calculations of supported load per attachment.

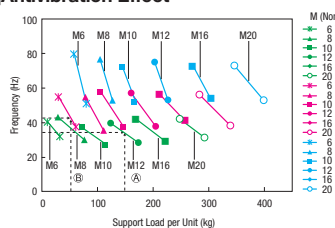
Ex) When an object of 600 kg is supported by 4 shafts, 600/4 = 150 (kgf)

② Evaluation of the natural frequency of the object. Frequency = Vibrations per Second

Ex) When motor speed is 1800 rpm, 1800 (rpm)/60 (s) = 30 (Hz)

With data obtained from ① and ② plotted on the graph, appropriate type of the attachment and vibration transmissibility under above condition are found.

Antivibration Effect



Ex. A) If KMBU(S)12 is selected with supported load to be 150kg per foot, transmissibility for vibrations above 30Hz is reduced to 1/3 or less.

Ex. B) If KMBU(S)6 is selected with supported load to be 50kg per foot, transmissibility for vibrations above 40Hz is reduced to 1/10 or less.

All values are calculated, and not guaranteed.

Example

Equipment vibrations are suppressed by the damper effect.

