

Leveling Mounts

Vibration Damping Mounts

Leveling Mounts – Vibration Damping Mount

RoHS 10

FJFNV

Details of Rubber Part

FJFNV C

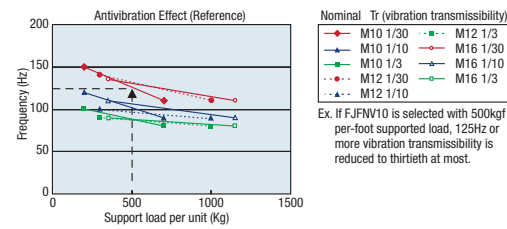
Non-Migration Rubber Type

Type	(1) Main Body		(2) Rubber Part		Hardness
	Material	Surface Treatment	Material		
FJFNV	Cast Iron Class No.35 (Screw, Nut 1018 Carbon Steel)	Trivalent Chromate	Chloroprene Rubber		Shore A70 (M10/12)
FJFNV C			Non-migration Chloroprene Rubber (gray)		Shore A90 (M16)

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

Part Number Example **Part Number**
FJFNV16-75

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



- How to Select**
- Calculations of Applied Load per Unit
Ex) When an object of 2,000 kg is supported by 4 points, 2,000/4=500(kgf)
 - Natural Frequency of the Object is investigated. Frequency = Number of Vibrations per Second
Ex) When motor speed is 7,200 rpm, 7,200(rpm)/60(s)=120(Hz)
- With data obtained (1) and (2) plotted on the graph, applicable screw diameter (M) and vibration transmissibility under the condition are found.

Adjustment Pads – Antivibration Attachment

RoHS 10

KMBU
KMBS

Part Number	Material	Surface Treatment	Hardness
KMBU	Plate	Low Carbon Steel	—
	Main Body	1045 Carbon Steel	—
	Damper	Chloroprene Rubber	Shore 60
KMBS	Plate	304 Stainless Steel	—
	Main Body	—	—
	Damper	Chloroprene Rubber	Shore 60

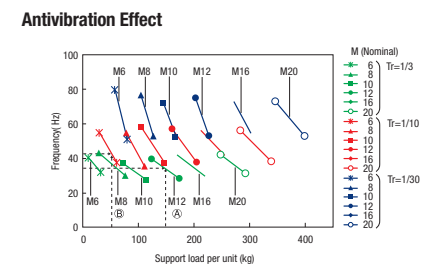
Part Number	Type	M	Damper Hardness	Main Body								Fixing Plate				Vertical Load (kN)	Mass (g)
				L	D	d ₁	S	t ₁	B	ℓ ₁	A	F	t ₂	d			
KMBU KMBS	N	6	N	42	45	40	28	2.5	10	3.5	80	60	2.3	8.5	1	260	
		8		43	55	50	30	13	5	1.5					340		
		10		44	60	55	31	17	6	2					420		
		12		44	72	67	32	19	7	2.5					630		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

*M16 and 20 are available for KMBU only.

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

Features
- Suitable for vibration countermeasures for vibratory equipment and machinery.
- Can be used as general leveling mounts up to 5° inclination.
- Damper will not stain floor since not in contact with the floor.

How to Select
Antivibration effects of vibration material (vibration transmissibility) heavily depend on applied loads and frequency of supported objects (natural frequency). The graph on the right shows anticipated antivibration effects of products calculated from frequencies of supported objects.



- Calculations of Applied Load per Attachment
Ex) When an object of 600 kg is supported by four attachments 600/4=150 (kgf)
- Natural Frequency of the Object is evaluated.
Frequency=Number of Vibrations per Second
Ex) When the motor speed is 1,800 rpm, 1,800 (rpm)/60 (s)=30 (Hz)

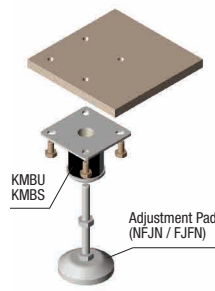
Ex. (A) If KMBU(S)12 is selected with supported load to be 150 kg per foot, transmissibility for vibrations above 30 Hz is reduced to 1/3 or less.
Ex. (B) If KMBU(S)6 is selected with supported load to be 50 kg per foot, transmissibility for vibrations above 40 Hz is reduced to 1/10 or less.

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

Ⓢ All values are based only on calculations and are not guaranteed.

Application Example

Equipment vibrations are suppressed by the damper effect.



Leveling Mounts

Mounting Plates / Mounting Nuts / Protection Caps

Leveling Mounts – Economy Mounting Plate

RoHS 10

FJKMT

Material: 1018 Carbon Steel or Equivalent
Surface Treatment: Bright Chromate Plating

Leveling Mounts – Thick Mounting Plate

RoHS 10

Steel
AJPNF
AJKNF

Stainless Steel
AJPNFS
AJKNFS

Type	Material	Surface Treatment
AJPNF / AJKNF	1018 Carbon Steel or Equivalent	Trivalent Chromate
AJPNFS / AJKNFS	304 Stainless Steel	—

Leveling Mounts – Mounting Plate

RoHS 10

Steel
FJKPF
FJKPN
FJKPG

Stainless Steel
FJKPFS
FJKPNS
FJKPGS

Type	Material	Surface Treatment
FJKP_	1018 Carbon Steel or Equivalent	Trivalent Chromate
FJKP_S	304 Stainless Steel	—

Leveling Mounts – Mounting Nut

RoHS 10

FJTP

Material: 1018 Carbon Steel or Equivalent
Surface Treatment: Trivalent Chromate

Leveling Mounts – Protection Caps

RoHS 10

AJCP

Ⓢ 20 pcs. per package
Material: EPDM Synthetic Rubber

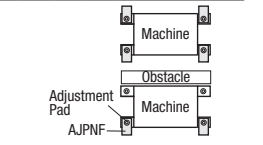
Part Number		A	B	L
FJKMT	Type			
	No.	12	22.5	19.3
		16	25	24.5
	20	28	31.0	95

Part Number Example **Part Number**
FJKMT12

Part Number	Type	No.	t	Plate Thickness	D	A	B	K	C	L	L ₁	Applicable	
												Leveling Mount	
AJPNF Steel	AJPNF	16	4.5	6	29	37.5	17	50	28.5	115	72	NFJN16, P.3166	
													30
													30
AJPNFS Stainless Steel	AJPNFS	20	4.5	6	36	45.5	21	60	28.5	125	77.5	NFJN20, P.3166	
													30
													30
AJKNF Steel	AJKNF	16	4.5	6	29	37.5	17	50	24.5	115	72	FJFN16, P.3169	
													26
													26
AJKNFS Stainless Steel	AJKNFS	20	4.5	6	36	45.5	21	60	24.5	125	77.5	FJFN20, P.3169	
													26
													26

Ⓢ Plate thickness may vary up to -10%.

Part Number Example **Part Number** - t
AJPNF20 - 4.5



Application Example

Fixing Plates may not be usable at 4 locations depending on equipment and machine conditions. Thick type prevents disengagement and displacement, and produces the optimal effects with the fewest fixing plates.

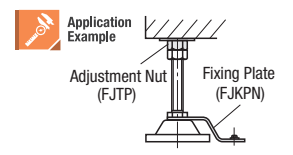
Part Number	Type	No.	t Thickness		A	B	C	L	L ₁	Applicable	
			FJKP_	FJKP_S							Adjustment Pads
FJKPF Steel	FJKPF	12	2	3.2	22.5	19	22	95	65	NFJN12, P.3166	
											100
											100
											100
											100
											100
FJKPFS Stainless Steel	FJKPFS	16	2	3.2	25	24	24	95	65	NFJN16, P.3166	
											100
											100
											100
											100
											100
FJKPN Steel	FJKPN	12	2	3.2	22.5	19	20	95	65	FJFN12, P.3169	
											100
											100
											100
											100
											100
FJKPNS Stainless Steel	FJKPNS	16	2	3.2	25	24	20	95	65	FJFN16, P.3169	
											100
											100
											100
											100
											100
FJKPG Steel	FJKPG	12	2	3.2	22.5	19	25	95	65	FJGN12, P.3167	
											100
											100
											100
											100
											100
FJKPGS Stainless Steel	FJKPGS	16	2	3.2	25	24	27	95	65	FJGN16, P.3167	
											100
											100
											100
											100
											100

Ⓢ For FJKPN and FJKPNS, t=2 when t dimension is not specified.

Part Number Example **Part Number** - t
FJKPN16 - 3.2

Part Number	Type	M (Coarse)	B	C	D	E	F	G	d	
										FJTP
FJTP	N	16	50	50	36	36	3	13	8	
										80
										56
										36
										26
FJTP	N	20	80	80	56	26	16	16	8	

Part Number Example **Part Number** - B
FJTP16 - 80



Features
Hex nuts do not fall off as they are swaged on.

Part Number	Type	No.	Color	D	L	d ₁	d ₂	ℓ ₁	ℓ ₂	Applicable	
										Screw Size (Coarse)	
AJCP	AJCP	8	Black	11	35	5.5	7	10	20	M6 / 8 M10 / 12 M16 / 20	
											12
											20

Part Number Example **Part Number** - Color
AJCP12 - B

Tips with Adjustment Pads
- Can be used to protect exposed threaded portions.
- Select according to size of M threads.
- Easy installation due to its flexibility.