

Anti-Vibration Mounts

Light Load / Heavy Load Anti-Vibration Pads

Leveling Mounts – Light Load Anti-Vibration Pad

FBFB
FBFM
FBFS
Stainless Steel

Type	(1) Body		(2) Rubber Part	
	Material	Surface Treatment	Material (Color)	Hardness
FBFB	1018 Carbon Steel or Equivalent	Trivalent Chromate	Chloroprene Rubber (Black)	Hs70
FBFM			Non-Staining Chloroprene Rubber	
FBFS	304 Stainless Steel	—	Electrically Conductive Rubber (Black)	
			Chloroprene Rubber (Black)	

*Electrically conductive rubber has an identification mark on the back side.

Part Number Type	D	M (Coarse)	A			FBFM Rubber Material	l ₁	l ₂	E	B	Vertical Load Range (kN)	Static Compression Spring Constant (kN/mm)	
			FBFB	FBFM	FBFS								
FBFB FBFM FBFS Stainless Steel	33	8	30	50	—	C Non-Staining Chloroprene Rubber, Gray	4.5	6.5	12	13	0.4–0.59	0.49±15%	
			10	30	50								70
			10	30	50								70
FBFB FBFM FBFS Stainless Steel	40	12	50	70	100	D Conductive Rubber, Black	8.0	10.0	15	19	0.44–0.88	0.69±15%	
			—	—	—								—
			—	—	—								—

⊙ Rubber type is not selectable for FBFB and FBFS. (Chloroprene rubber only)

Part Number Example

Part Number - M - A - Rubber Material

FBFB33 - 10 - 50 - C

FBFM40 - 12 - 100 - C

Part Number Type	D	M (Coarse)	Available Types											
			A30			A50			A70			A100		
			FBFB	FBFM	FBFS	FBFB	FBFM	FBFS	FBFB	FBFM	FBFS	FBFB	FBFM	FBFS
FBFB FBFM FBFS Stainless Steel	33	8	•	•	•	•	•	•	•	•	•	•	•	•
			10	•	•	•	•	•	•	•	•	•	•	•
			40	•	•	•	•	•	•	•	•	•	•	•
FBFB FBFM FBFS Stainless Steel	40	12	—	—	—	•	•	•	•	•	•	•	•	•
			—	—	—	•	•	•	•	•	•	•	•	•
			—	—	—	•	•	•	•	•	•	•	•	•

Leveling Mounts – Heavy Load Anti-Vibration Pad

FBR
FBRM
FBRS
Stainless Steel

Type	(1) Body		(2) Rubber Part	
	Material	Surface Treatment	Material (Color)	Hardness
FBR	1018 Carbon Steel or Equivalent	Trivalent Chromate	Chloroprene Rubber (Black)	Hs70
FBRM			Non-Staining Chloroprene Rubber	
FBRS	304 Stainless Steel	—	Electrically Conductive Rubber (Black)	
			Chloroprene Rubber (Black)	

*Conductive rubber has an identification mark on the back side.

Part Number Type	D	M (Coarse)	A			FBRM Rubber Material	l ₁	l ₂	E	B	Vertical Load Range (kN)	Static Compression Spring Constant (kN/mm)									
			FBR	FBRM	FBRS																
FBR FBRM FBRS Stainless Steel	60	12	70	100	130	C Non-Staining Chloroprene Rubber, Gray	8	10	25	19	1.47–2.94	2.94±15%									
			16	70	100								130	150	180						
			20	100	130								150	(180)	—						
	70	16	70	100	(130)								150	(180)	D Conductive Rubber, Black	10	13	29	2.45–4.41	4.41±15%	
			20	100	(130)								(150)	(180)							—
			20	100	(130)								(150)	(180)							—
90	20	(70)	100	130	(150)	(180)	10	13	32	24	2.94–6.37	6.37±15%									
		20	100	130	(150)	(180)							—								
		20	100	130	(150)	(180)							—								
100	16	70	100	130	150	180							10	13	35	24	3.43–6.86	7.35±15%			
		20	100	130	150	180													—		
		20	100	130	150	180													—		
120	20	70	100	150	180	—	10	13	37	24	5.88–11.76	10.29±15%									
		20	100	130	150	180													—		
		20	100	130	150	180													—		

A dimension in () are not available for FBRS. ⊙ M12 is available for FBR only. ⊙ Conductive rubber type is not selectable for FBR and FBRS. (Chloroprene rubber only) kgf (Load)=N×0.101972

Part Number Example

Part Number - M - A - Rubber Material

FBR60 - 16 - 100 - C

FBRM60 - 16 - 100 - C

Part Number Type	D	M (Coarse)	Available Types														
			A70			A100			A130			A150			A180		
			FBR	FBRM	FBRS	FBR	FBRM	FBRS	FBR	FBRM	FBRS	FBR	FBRM	FBRS	FBR	FBRM	FBRS
FBR FBRM FBRS Stainless Steel	60	12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
			16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
			20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	70	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
			20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
			20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
90	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
100	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
120	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Anti-Vibration Mounts

Standard / Economy

Anti-Vibration Mounts – Standard / Economy

KFJA
KFJB
KFJH
KFJM

Type	Housing		Bolt		Antivibration Rubber	
	Material	Surface Treatment (Color)	Material	Surface Treatment	Material (Color)	Hardness
KFJA KFJB KFJH	Low Carbon Steel	Baked Melamine Finish (Black)	1018 Carbon Steel or Equivalent	Trivalent Chromate	Chloroprene Rubber (Black)	Shore A75 (Shore A55 for KFJA only)
KFJM	Cast Iron Class No.35	—	—	—	—	—

Application Example

Type	Part Number	D	L			Vertical Load Range (kN)		H	(H)	d	M	Tip Dimension of Screw		Max Adjustable Amount (mm)	Mounting Flange Thickness (mm)	Spring Constant (kN/mm)
			Type	Min.	Max.	B	ℓ									
Round	KFJA Light Load	100	90	120	200	1.55	3.1	L+31	39	78	12	8	7.5	18	L-48	1.2
		140	—	—	—	3.1	6.3	L+37	47	114	16	10	8.5	19	L-55	2.4
		190	—	—	—	6.3	12.5	L+44	56	158	20	12	—	25	L-69	4.8
	KFJB Medium Load	100	90	120	200	3.15	6.3	L+28	39	78	12	8	7.5	18	L-51	4.6
		140	—	—	—	6.3	12.5	L+37	47	114	16	10	8.5	19	L-55	9.2
		190	—	—	—	12.5	25.0	L+44	56	158	20	12	—	25	L-69	18.3
KFJH Heavy Load	100	90	120	200	7.5	15.0	L+17	35	78	12	8	7.5	22	L-62	23.0	
	140	—	—	—	15.0	30.0	L+21	42	114	16	10	8.5	24	L-71	46.0	
	190	—	—	—	20.0	40.0	L+28	54	158	20	12	—	27	L-84	62.0	
Square	KFJM	110	85	110	200	1.4	2.8	L+30	47	97	12	8	7.5	15	L-40	3.7
		130	—	—	—	2.8	6.0	L+31	51	117	—	—	—	20	L-50	7.4
		160	—	—	—	6.0	12.0	L+41	65	146	16	10	8.5	24	L-55	14.7
		200	—	—	—	12.0	18.0	L+47	76	185	20	12	—	27	L-65	23.0

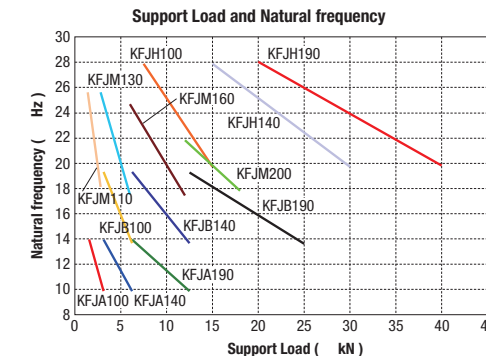
Part Number Example

Part Number - L

KFJH140 - 120

How to Select

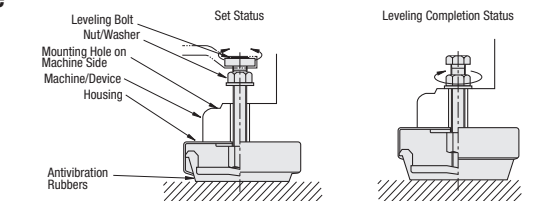
- Calculate applied load per antivibration mount.
Ex) When an object of 40 kN load is supported by 4 supporting points
40 kN/4 = 10 kN
- Calculate frequency for supported object
As the frequency is the number of vibration per second,
Ex) when motor speed is 3,000 rpm
3,000/60(s)=50 Hz
Select an antivibration mount with natural frequency less than 1/2 the frequency of vibration sources (motors, etc.).
50/2=25 Hz
⊙ If the vibration is square root of 2x or less, it is within the range of resonance. Please select again.
- The natural frequency can be found by following along the mount's applied load axis to reach the intersections with the graph lines of respective part numbers.
Ex) In the case of motor with 10 kN and 50 Hz, when KFJM160 is selected, the natural frequency will be 20 Hz. In the case KFJH100 is selected, the natural frequency will be 25 Hz.



Installation Method

- Jack up the machines and devices (sling up) to place the Mounts under the holes. (For KFJM type, place a level washer on the Mounts, and lower the machines and devices.)
 - Insert leveling bolt after attaching the nut and washer into the mount from top side.
 - Turn the leveling bolt with a wrench to adjust the level of the machine. (For KFJM turn the handle with a tool to adjust level of the machine.)
 - After horizontal level has been obtained, tighten the nut and washer.
- ⊙ To prevent concentration of load, adjust each mount in sequence in small amounts to level.
⊙ For KFJM, the leveling will be smoother if grease is applied on the contact surface of the handle and the level washer.

KFJA Type KFJB KFJH



KFJM Type

