

Antivibration Gel Stainless Steel Studs

Both Ends Threaded Studs / Threaded Stud, Plate Mount / Antivibration Gel Bushings / Sheets / Rubber Covered Type

■Silicone vibration absorber with longer fatigue life than rubber products. Suitable for light load and micro-vibration.

Both Ends Threaded Studs

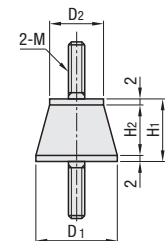


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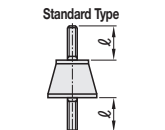
* Slots are added to prevent rotation when tightening. Hold it with a flathead screwdriver, etc.
❗Slot is not available for Ultra-Light Type.

Ultra-Light Type

BGELA (Standard Type)
SBGELA (Lower Thread Short Type)
WBGELA (Short Type)
TBGELA (Upper Thread Short Type)

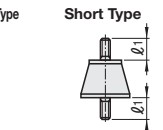
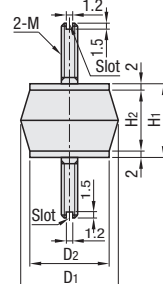


Threaded Stud Dimension



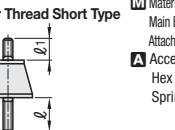
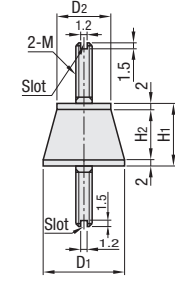
Lightweight Type

BGELM (Standard Type)
SBGELM (Lower Thread Short Type)
WBGELM (Short Type)



Medium Load Type

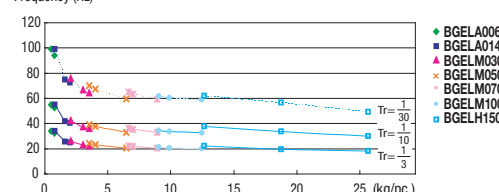
BGELH (Standard Type)
SBGELH (Lower Thread Short Type)
WBGELH (Short Type)
TBGELH (Upper Thread Short Type)



■Material
Main Body: Silicone
Attaching Portion: SUS304 Equivalent
❗Accessory:
Hex Nut: SUS304 Equivalent
Spring Washer 2 pcs. each:
SUS304 Equivalent

Type	Part Number	No.	D1	D2	H1	H2	ℓ	ℓ1	M
Ultra-Light	BGELA	006	18	12	13	9	15	10	4
	SBGELA	014	25	20	18	14	20	14	6
	WBGELA	030							
	TBGELA	050							
Lightweight	BGELM	070	30	24	22	18	18	14	6
	SBGELM	071*							
	WBGELM	100							
	TBGELM	101*							
Medium Load	BGELH	150	35	28	25	21	17	12	6
	SBGELH	151*							

Vibration Transmissibility Graph



Type	Part Number	No.	Working Load N (kgf)	Spring Constant N/mm (kgf/mm) ± 20%	Hardness Asker C Penetration	Frequency Used Hz	Body Color	Unit Price
Ultra-Light	BGELA	006	4.9~7.84 (0.5~0.8)	6.17 (0.63)	-	64.7	23~	① Milky White
	SBGELA	014	7.84~19.6 (0.8~2.0)	9.31 (0.95)	-	60.7	20~	② Milky White
	WBGELA	030	19.6~34.3 (2.0~3.5)	13.13 (1.34)	19.7	32.0	17~	③ Milky White
	TBGELA	050	34.3~53.9 (3.5~5.5)	21.75 (2.22)	29.8	-	16~	④ Light Green
Lightweight	BGELM	070	53.9~83.4 (5.5~8.5)	33.71 (3.44)	38.0	-	16~	⑤ Light Orange
	SBGELM	071*						
	WBGELM	100	83.4~122.5 (8.5~12.5)	46.74 (4.77)	44.3	-	16~	⑥ Light Blue
	TBGELM	101*						
Medium Load	BGELH	150	122.5~245.1 (12.5~25.0)	56.2 (5.74)	52.5	-	14~	⑦ Milky White
	SBGELH	151*						

❗Hardness: Listed values are not guaranteed values but an example of measured values. ❗Penetration: JIS K2207, Asker C: JIS S6050 See P391 kgf=Nx0.101972
❗* Nominal 071, 101, 151 are applicable to BGELM and BGELH only.

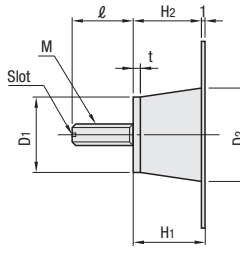
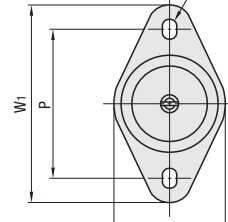
■Silicone vibration absorber with longer fatigue life than rubber products. Suitable for light load and micro-vibration.

Threaded Stud, Plate Mount



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BGELP



* Slots are added to prevent rotation when tightening. Hold it with a flathead screwdriver, etc.
❗Slot is not available for 006 and 014.

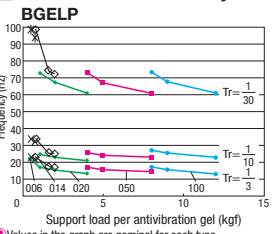
■Material
Main Body: Silicone
Attaching Portion: SUS304 Equivalent
❗Accessory:
Hex Nut: SUS304 Equivalent
Spring Washer 1 pc. each:
SUS304 Equivalent

Part Number	Type	No.	D1	D2	H1	H2	t	ℓ	M
BGELP		006	12	18	12	11	2	15	4
		014	20	25	17	16	2	20	6
		020							
		050	24	30	22	21	2	18	6
BGELP		100							
		101							
		102							
		103							

Part Number	Type	No.	Working Load N (kgf)	Spring Constant N/mm (kgf/mm) ± 20%	Hardness Asker C Penetration	Frequency Used Hz	Body Color	Unit Price
BGELP		006	0.49~7.84 (0.50~0.80)	6.17 (0.63)	-	64.7	23~	① Milky White
		014	7.84~19.60 (0.80~2.00)	9.31 (0.95)	-	60.7	20~	② Milky White
		020	12.25~31.85 (1.25~3.25)	10.68 (1.09)	-	44.0	22~	③ Light Green
		050	31.85~73.50 (3.25~7.50)	20.67 (2.11)	25.3	-	19~	④ Light Orange
BGELP		100	73.50~122.50 (7.50~12.50)	40.18 (4.10)	44.5	-	17~	⑤ Light Blue

❗Hardness: Listed values are not guaranteed values but an example of measured values. ❗Penetration: JIS K2207, Asker C: JIS S6050 See P391 kgf=Nx0.101972

Vibration Transmissibility Data



❗Values in the graph are nominal for each type.
❗The above values are not guaranteed values but a calculated ones.

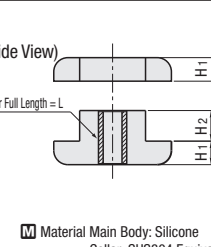
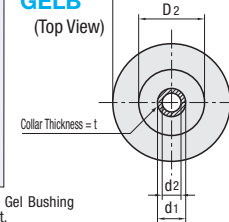
Antivibration Gel Bushings



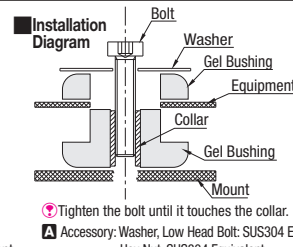
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■Features: The penetrating bolt of Antivibration Gel Bushing can minimize horizontal misalignment.

GELB



■Material Main Body: Silicone
Collar: SUS304 Equivalent

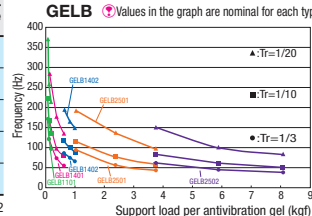


❗Tighten the bolt until it touches the collar.
❗Accessory: Washer, Low Head Bolt: SUS304 Equivalent
Hex Nut: SUS304 Equivalent

Part Number		D1	D2	d1	d2	H1	H2	L	t	Working Load N [kgf]	Spring Constant N/mm (kgf/mm) ±20%	Hardness		Frequency Used Hz	Included Washer O.D.	Included Bolt Size	Body Color	Unit Price
Type	No.											Asker C	Penetration					
GELB	1101	11	7	4	3	3.5	6	0.5	0.49~1.77 (0.05~0.18)	10.59 (1.08)	-	80	At 0.05kg: 90~ At 0.18kg: 60~	Ø12	M3x15	Milky White		
	1401	14	9	5	3	4	4	7	1.18~6.08 (0.12~0.62)	26.18 (2.67)	-	50	At 0.12kg: 95~ At 0.62kg: 50~	Ø15	M3x15	Milky White		
	1402								6.08~9.81 (0.62~1.00)	56.68 (5.78)	30	-	At 0.62kg: 70~ At 1.00kg: 55~			Light Green		
	2501	25	14	6	4	5	6.5	11	9.81~36.77 (1.00~3.75)	86.59 (8.83)	30	-	At 1.00kg: 70~ At 3.75kg: 35~	Ø25	M4x20	Milky White		
	2502								36.77~78.45 (3.75~8.00)	170.15 (17.35)	50	-	At 3.75kg: 40~ At 8.00kg: 25~			Light Green		

❗Recommended frequency varies depending on the condition of load. ❗Penetration: JIS K2207, Asker C: JIS S6050 See P391 kgf=Nx0.101972

Vibration Transmissibility Data

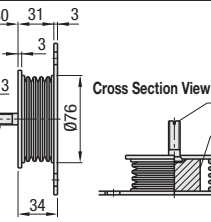
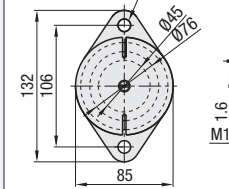


Antivibration Gel Rubber Covered Type



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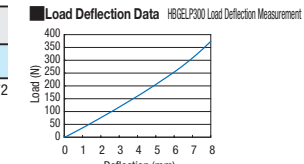
HBGELP



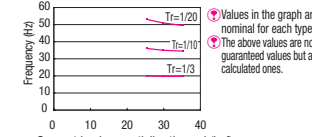
■Material
Main Body: Silicone
Coating: EPDM Synthetic Rubber
Attaching Portion: SUS304 Equivalent
❗Accessory:
Hex Nut: SUS304 Equivalent
Spring Washer: SUS304 Equivalent
1 pc. each

Part Number	Type	No.	Working Load N (kgf)	Frequency Used Hz	Unit Price
HBGELP		300	245.1~343.2 (25.0~35.0)	13~	kgf=Nx0.101972

■Features
-Low frequency vibration absorbing gel with working load limit of 25 ~ 35 kgf (when 1pc. is used) and lowest usable frequency of 13Hz.
-Silicone gel used for the main body is ethylene rubber covered, and has good environmental resistance. Outdoor use is possible.



Vibration Transmissibility Data



■Silicone vibration absorber with longer fatigue life than rubber products. Suitable for light load and micro-vibration.

Antivibration Gel Sheets



RoHS10

Type	Material	Hardness	
No Adhesive	Adhesive	Asker C Penetration	
BGEPG	BGEPGA	-	55
BGPEPM	BGPEMA	-	-

30

7

The values of hardness are reference values.

A

No Adhesive

Adhesive

R1

10

R1.5

Seal

Backing Paper

Silicone

2

7

100

R1.5

2

7

❗The values of hardness are reference values.



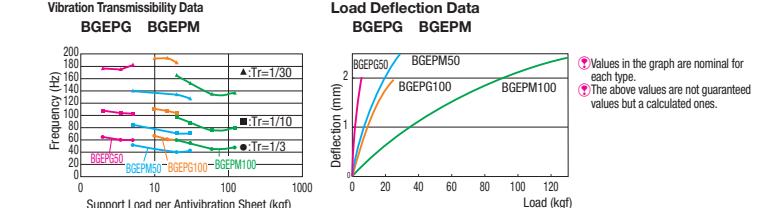
■Features of Antivibration Gel Bushings and Antivibration Gels
-Effective for light loads and minute vibrations that are difficult for antivibration rubbers to absorb.
-Excels in durability.
-There are no secondary and tertiary resonances that hinder the antivibration effects.
-Shifted or twisted installation drastically lowers performance and durability.
-Do not use in tension.

■Cautions
-The height becomes lower due to being compressed when loaded.
-Do not remove the rubber burrs around the studs as the burrs prevent separations of studs and antivibration materials.
-Antivibration Gel and Rubber are designed to be used in compression.

Type	A	a	Proper Load N (kgf)	Deflection Characteristic N/mm (kgf/mm)	Frequency Used Hz	Protrusion	Color	Unit Price
No Adhesive	Adhesive							
BGEPG	BGEPGA	50	7	19.6~49 (2~5)	22 (2.25)	4x4=16 pcs.	Milky White	
BGPEPM	BGPEMA	50	7	49~294 (5~30)	93 (9.5)	8x8=64 pcs.	Light Green	
BGEPG	BGEPGA	100	8	98~196 (10~20)	98 (10)		Milky White	
BGPEPM	BGPEMA	100	8	196~1225 (20~125)	431 (44)		Light Green	

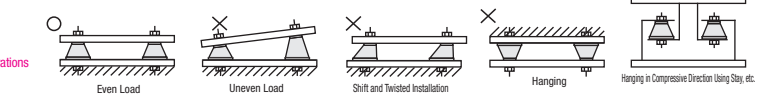
❗Can be cut with a utility knife between protrusions.
❗Adhesive Type has an operating temperature between -40 and 100°C.
❗Reference: Adhesive Strength (180° Peeling Strength) 14.5N/25mm Width (When affixed to SUS304)
❗As pressure sensitive adhesive is used, be sure to apply sufficient pressure so that the joint sections may firmly adhere to each other.
❗Adhesive Type uses 75µm PET film base material. ❗Oil may ooze out to the backing paper.

❗Values in the graph are nominal for each type.
❗The above values are not guaranteed values but a calculated ones.



Material	Weather Resistance	Water Resistance	Oil Resistance	Ozone Resistance	Operating Temp. Range
Silicone	○	○	○	○	-40 ~ 200°C
Natural Rubber	△	△	△	△	-30 ~ 60°C
Chloroprene Rubber	○	○	○	○	-20 ~ 70°C

❗How to Mount
-Attach so that load is applied evenly.
-Antivibration Gel products are to be used for vertically oriented loads only. Install BGELP and BGELA bushings with the small diameter ends facing up.
-Shifted or twisted installation drastically lowers performance and durability.
-Do not use in tension.



❗Values in the graph are nominal for each type.
❗The above values are not guaranteed values but a calculated ones.