

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

RoHS 10

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

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)

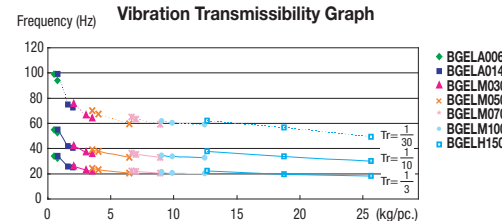
Technical drawings showing dimensions D1, D2, H1, H2, L, t, Slot, 2-M, 2-h, and 2 for various types.

Threaded Stud Dimension
 Standard Type, Lower Thread Short Type, Short Type, Upper Thread Short Type

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

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

Type	Part Number	No.	D1	D2	H1	H2	ℓ	ℓ1	M (Coarse Thread)
Ultra-Light	BGELA	006	18	12	13	9	15	10	4
	SBGELA	014	25	20	18	14	20	14	6
Lightweight	BGELM	030	30	24	22	18	18	14	6
	WBGELM	070							
	SBGELM	071*							
	SBGELM	100							
	SBGELM	101*							
Medium Load	BGELH	150	35	28	25	21	17	12	8
	SBGELH	151*							



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
Lightweight	BGELM	030	19.6~34.3 (2.0~3.5)	13.13 (1.34)	19.7	32.0	17~	③ Milky White
	WBGELM	050	34.3~53.9 (3.5~5.5)	21.75 (2.22)	29.8	-	16~	④ Light Green
	SBGELM	070	53.9~83.4 (5.5~8.5)	33.71 (3.44)	38.0	-	16~	⑤ Light Orange
	SBGELM	071*	83.4~122.5 (8.5~12.5)	46.74 (4.77)	44.3	-	16~	⑥ Light Blue
	SBGELM	100	122.5~245.1 (12.5~25.0)	56.2 (5.74)	52.5	-	14~	⑦ Milky White
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

RoHS 10

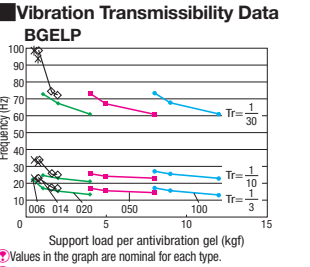
BGELP

Technical drawings showing dimensions W1, W2, P, D1, D2, H1, H2, ℓ, t, Slot, 2-h, and 2.

* 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

Type	Part Number	No.	D1	D2	H1	H2	t	ℓ	M (Coarse Thread)	W1xW2	h	P
BGELP	006	12	18	12	11	2	15	4		40x24	Φ4	30
	014	20	25	17	16	2	20	6		52x32	Φ6	40
	020	24	30	22	21	2	18	6	60x36	4.2x6 Slotted Hole	46	
	050											
	100											



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

Antivibration Gel Bushings

RoHS 10

GELB (Top View) (Side View)

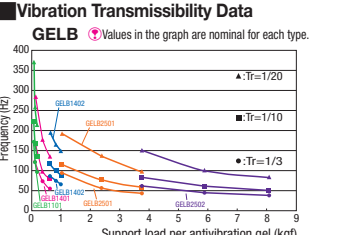
Collar Full Length = L
 Collar Thickness = t

Material: Main Body: Silicone, Collar: SUS304 Equivalent

Installation Diagram: Bolt, Washer, Gel Bushing, Equipment, Collar, Mount

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

Part Number	Type	No.	D1	D2	d1	d2	H1	H2	L	t	Working Load N (kgf)	Spring Constant N/mm (kgf/mm) ± 20%	Hardness Asker C Penetration	Frequency Used Hz	Included Washer O.D.	Included Bolt Size	Body Color	Unit Price
1101	GELB	11	7	4	3	3	3.5	6	0.5		0.49~1.77 (0.05~0.18)	10.59 (1.08)	-	80	Φ12	M3x12	Milky White	kgf=Nx0.101972
1401		14	9	5	3	4	4	7	1		1.18~6.08 (0.12~0.62)	26.18 (2.67)	-	50	Φ15	M3x15	Milky White	
1402		14	9	5	3	4	4	7	1		6.08~9.81 (0.62~1.00)	56.68 (5.78)	30	-	Φ15	M3x15	Milky White	
2501		25	14	6	4	5	6.5	11	1		9.81~36.77 (1.00~3.75)	86.59 (8.83)	30	-	Φ25	M4x20	Milky White	
2502		25	14	6	4	5	6.5	11	1		36.77~78.45 (3.75~8.00)	170.15 (17.35)	50	-	Φ25	M4x20	Light Green	



Antivibration Gel Rubber Covered Type

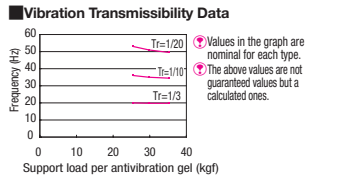
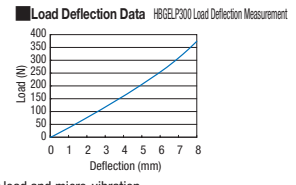
RoHS 10

HBGELP

Technical drawings showing dimensions 132, 106, 85, 2-Φ11, 30, 31, 3, 3, 3, 0.45, 0.76, M10, 1.6, 0.76, 34, and Cross Section View Slot.

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
300	HBGELP	300	245.1~343.2 (25.0~35.0)	13~	kgf=Nx0.101972



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

Type	No Adhesive	Adhesive	A	a	Proper Load N (kgf)	Deflection Characteristic N/mm (kgf/mm)	Frequency Used Hz	Protusion	Color	Unit Price
BGEPG	BGEPGA	50	7	7	19.6~49 (2~5)	22 (2.25)	40~	4x4=16 pcs.	Milky White	
	BGEPMA	50	7	7	49~294 (5~30)	93 (9.5)				
BGEPM	BGEPGA	100	8	8	98~196 (10~20)	98 (10)	40~	8x8=64 pcs.	Milky White	
	BGEPMMA	100	8	8	196~1225 (20~125)	431 (44)				

kgf=Nx0.101972

Antivibration Gel Sheets

RoHS 10

BGEPG **BGEPM**

Material: Silicone

Hardness: Asker C Penetration: 30

* The values of hardness are reference values.

Vibration Transmissibility Data: BGEPG, BGEPM

Load Deflection Data: BGEPG, BGEPM

Ordering Example

Part Number: BGEPG50

Example: BGEPG50

Ordering Example: BGEPG50

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.

Vibration Transmissibility Data
 BGEPG BGEPM

Load Deflection Data
 BGEPG BGEPM

Properties:
 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.

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.

Even Load, Uneven Load, Shift and Twisted Installation, Hanging, Hanging in Compressive Direction Using Stay, etc.

Caution: 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.