

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

Type	Part Number	D1	D2	H1	H2	ℓ	ℓ1	M (Coarse Thread)
Ultra-Light	BGELA (Standard Type)	006	18	12	13	9	15	10
	SBGELA (Lower Thread Short Type)	014	25	20	18	14	20	14
	WBGELA (Short Type)	030	-	-	-	-	-	-
Lightweight	BGELM (Standard Type)	070	30	24	22	18	18	14
	SBGELM (Lower Thread Short Type)	050	-	-	-	-	-	-
	WBGELM (Short Type)	071*	-	-	-	-	-	-
Medium Load	BGELH (Standard Type)	150	35	28	25	21	17	12
	SBGELH (Lower Thread Short Type)	151*	-	-	-	-	-	-

Threaded Stud Dimension

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

Vibration Transmissibility Graph

Type	Part Number	No.	D1	D2	H1	H2	ℓ	ℓ1	M (Coarse Thread)
Ultra-Light	BGELA	006	18	12	13	9	15	10	4
Ultra-Light	SBGELA	014	25	20	18	14	20	14	6
Lightweight	BGELM	070	30	24	22	18	18	14	6
Lightweight	SBGELM	050	-	-	-	-	-	-	8
Lightweight	WBGELM	071*	-	-	-	-	-	-	6
Lightweight	WBGELM	100	-	-	-	-	-	-	6
Lightweight	WBGELM	101*	-	-	-	-	-	-	6
Medium Load	BGELH	150	35	28	25	21	17	12	6
Medium Load	SBGELH	151*	-	-	-	-	-	-	8

⚠ Hardness: Listed values are not guaranteed values but an example of measured values. ⚠ Penetration: JIS K2207, Asker C: JIS S6050 See P.391 kgf=Nx0.101972
 ⚠ * Nominal 071, 101, 151 are applicable to BGELM and BGELH only.

Comparison of Antivibration Properties

Resonance frequency is set relatively low and this enables to dampen lower frequency vibrations.

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

Threaded Stud, Plate Mount

BGELP

Part Number	No.	D1	D2	H1	H2	t	ℓ	M (Coarse Thread)	W1xW2	h	P
006	12	18	12	11	2	15	4	40x24	Ø4	30	
014	20	25	17	16	2	20	6	52x32	Ø6	40	
020	24	30	22	21	2	18	6	60x36	4.2x6 Slotted Hole	46	
050	-	-	-	-	-	-	-	-	-	-	
100	-	-	-	-	-	-	-	-	-	-	

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

Vibration Transmissibility Data

BGELP

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
006	12	0.49~7.84 (0.50~0.80)	6.17 (0.63)	- 64.7	23~	① Milky White	
014	20	7.84~19.60 (0.80~2.00)	9.31 (0.95)	- 60.7	20~	② Milky White	
020	24	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	
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 P.391 kgf=Nx0.101972
 ⚠ The above values are not guaranteed values but a calculated ones.

Antivibration Gel Bushings

GELB

Material Main Body: Silicone Collar: EN 1.4301 Equiv.

Installation Diagram

Tighten the bolt until it touches the collar.
 Accessory: Washer, Low Head Bolt: EN 1.4301 Equiv. Hex Nut: EN 1.4301 Equiv.

Vibration Transmissibility Data

GELB

⚠ Values in the graph are nominal for each type.

Antivibration Gel Rubber Covered Type

HBGELP

Material Main Body: Silicone Coating: EPDM Synthetic Rubber Attaching Portion: EN 1.4301 Equiv.
 Accessory: Hex Nut: EN 1.4301 Equiv. Spring Washer: EN 1.4301 Equiv. 1 pc. each

Load Deflection Data

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 Sheets

Type	Material	Hardness
No Adhesive	Silicone	- 55
Adhesive	Silicone	30 -

⚠ The values of hardness are reference values.

Vibration Transmissibility Data

BGEPG BGPEPM

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

Load Deflection Data

BGEPG BGPEPM

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

Ordering Example

Part Number: BGEPG50

Properties

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

⊙ = Excellent ⊕ = Good △ = Acceptable × = Poor
 ⚠ Silicone is an artificial compound made from Silicon.

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.

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.