

Washers with Antivibration Gel

Stainless Steel Studs / Both Ends Threaded Stopper Type

Washers with Antivibration Gel – Both Ends Threaded Stopper Type

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)

Threaded Stud Dimension

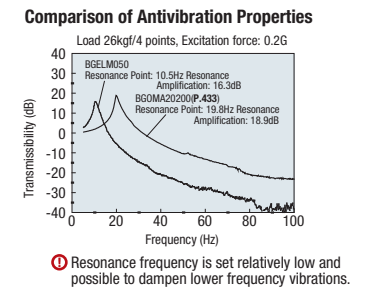
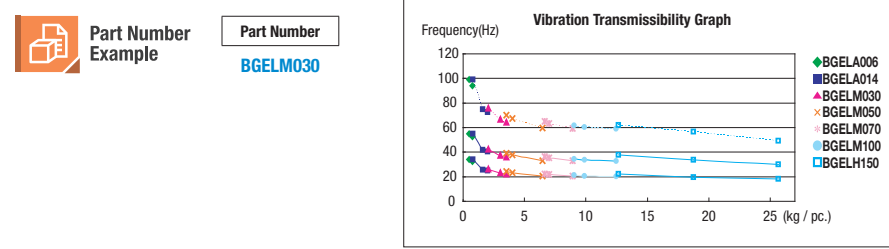
Standard Type Lower Thread Short Type Short Type Upper Thread Short Type

Material: Body: Silicone, Attaching Portion: 304 Stainless Steel
 Accessories: Hex Nut: 304 Stainless Steel, Spring Washer: 2 pc. each, 304 Stainless Steel Equivalent

Ⓢ Slot is not available for Ultra-Light Type.

Type	Part Number		Nominal	D ₁	D ₂	H ₁	H ₂	ℓ	ℓ ₁	M (Coarse Thread)	Working Load N (kgf)	Spring Constant N/mm (kgf/mm) ±20%	Hardness		Frequency Used Hz	Main Body Color														
	Type	Nominal											Asker C	Penetration																
Ultra-Light	BGELA	WBGELA	006	18	12	13	9	15	10	4	4.9-7.84 (0.5-0.8)	6.17 (0.63)	—	64.7	23~	(1) Milky White														
	SBGELA	TBGELA	014	25	20	18	14	20	14	6	7.84-19.6 (0.8-2.0)	9.31 (0.95)	—	60.7	20~	(2) Milky White														
			030							6	19.6-34.3 (2.0-3.5)	13.13 (1.34)	19.7	32.0	17~	(3) Milky White														
			050							6	34.3-63.7 (3.5-5.5)	21.75 (2.22)	29.8	—	16~	(4) Light Green														
Lightweight	BGELM	WBGELM	070	30	24	22	18	18	14	8	63.7-88.2 (5.5-8.5)	33.71 (3.44)	38.0	—	16~	(5) Light Orange														
	SBGELM		071*																											
			100																				6	88.2-122.5 (8.5-12.5)	46.74 (4.77)	44.3	—	16~	(6) Light Blue	
			101*																				8							
			151*																				8							
Medium Load	BGELH	WBGELH	150	35	28	25	21	17	12	6	122.5-245.1 (12.5-25.0)	56.2 (5.74)	52.5	—	14~	(7) Milky White														
	SBGELH	TBGELH	151*																											

Ⓢ Hardness: Listed values are not guaranteed values but an example of measured values. Ⓢ Penetration: JIS K2207, Asker C: JIS S6050 See P.2566
 Ⓢ *Nominal 071, 101, 151 are applicable to BGELM and BGELH only.



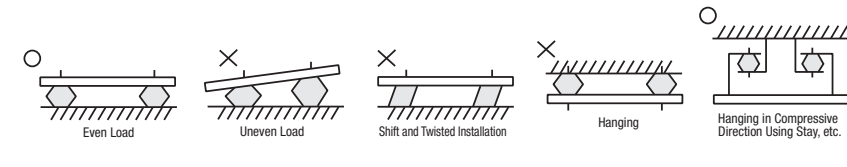
Features of Antivibration Gel Bushings & Antivibration Gels

- Effective for light loads and minute vibrations that are difficult for antivibration rubbers to absorb.
- Excels in durability.
- There are no secondary or tertiary resonances that hinder the antivibration effects.

Properties

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

Ⓢ Silicone is an artificial compound made from Silicon.



Washers with Antivibration Gel

Threaded, Plate Stopper Type / Antivibration Gel Bushings

Threaded, Plate Stopper Type

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BGELP

Slots are added to prevent rotation when tightening. Hold it with a flathead screwdriver, etc.

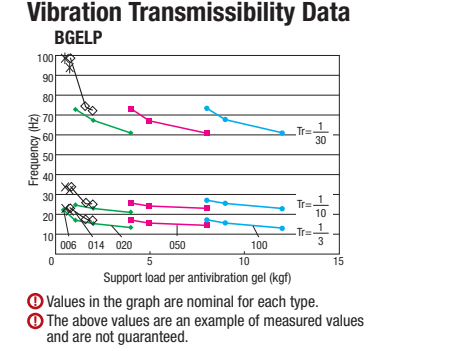
Ⓢ Slot is not available for 006 and 014.

Material: Body: Silicone, Attaching Portion: 304 Stainless Steel
 Accessories: Hex Nut: 304 Stainless Steel, Spring and Washer 1 pc. each, 304 Stainless Steel

Part Number Type	Nominal	D ₁	D ₂	H ₁	H ₂	t	ℓ	M (Coarse Thread)	W ₁ x W ₂	h	P	kgf=Nx0.101972	
												Working Load N (kgf)	Spring Constant N/mm (kgf/mm) ±20%
BGELP	006	12	18	12	11	2	15	4	40 x 24	Ø4	30		
	014	20	25	17	16	2	20	6	52 x 32	Ø6	40		
	020												
	050	24	30	22	21	2	18	6	60 x 36	4.2 x 6 Slotted Hole	46		
	100												

Part Number Type	Nominal	Working Load N (kgf)	Spring Constant N/mm (kgf/mm) ±20%	Hardness		Frequency Used Hz	Main Body Color
				Asker C	Penetration		
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
	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.2566



Antivibration Gel Bushings

RoHS 10

GELB

Installation Diagram

Ⓢ Tighten the bolt until it touches the collar.
 Accessories: Washer, Low Head Bolt: 304 Stainless Steel, Hex Nut: 304 Stainless Steel

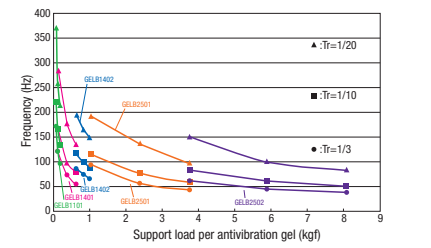
Material: Body: Silicone, Collar: 304 Stainless Steel

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

Part Number Type	No.	D ₁	D ₂	d ₁	d ₂	H ₁	H ₂	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
												Asker C	Penetration				
GELB	1101	11	7	4	3	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	M3x12	Milky White
	1401	14	9	5	3	4	4	7	1	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	1	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 Refer to P.2566.

Vibration Transmissibility Data GELB



Application Example

Features of Antivibration Gel Bushings & Antivibration Gels

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- Excels in durability.
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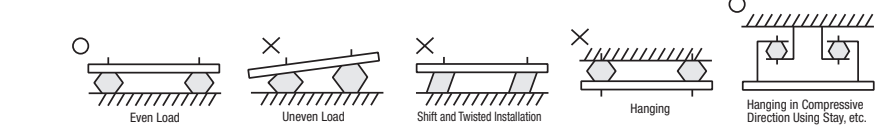
Part Number Example

Part Number	Part Number
BGELP006	BGELP006

Properties

Material	Weather Resis.	Water Resis.	Oil Resis.	Ozone Resis.	Operating Temp. Range
Silicone	Excellent	Excellent	Acceptable	Excellent	-40~200°C
Natural Rubber	Acceptable	Acceptable	Poor	Poor	-30~60°C
Chloroprene Rubber	Excellent	Acceptable	Good	Good	-20~70°C

Ⓢ Silicone is an artificial compound made from Silicon.



Dampening & Sound Proofing / Protective Products / Antistatic Materials / Brushes

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