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Leveling Carry Mountings
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Figure 1: REBOUND RESILIENCE

No matter what the temperature could be, Silicone Gel performs more stably than other materials.

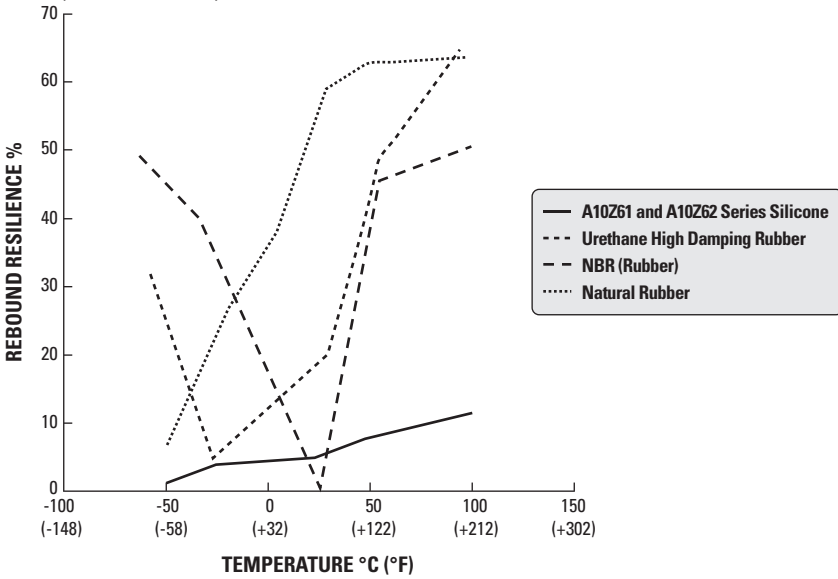
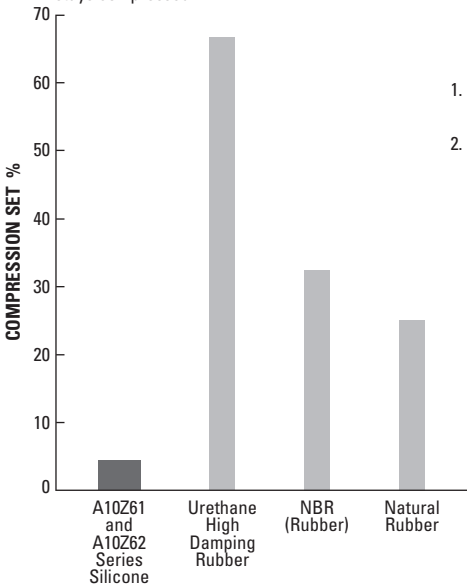


Figure 2: COMPRESSION SET

Outstanding restoration is available even when Silicone Gel stays compressed.



1. Compress above materials by 25% and leave compressed for 22 hours in 70°C (158° F).
2. Release compression and leave in normal temperature for 30 minutes.



General Characteristics		A10Z61MA1	A10Z61MA2 & A10Z61MB1	A10Z61MB2 & A10Z61MSF10
Specific Gravity		1.05	1.06	1.07
Hardness	Needle* Penetration (1/10 mm)	55	—	—
	Asker C**	—	33	52.5
Specific Heat (J/g x K)		1.52	1.51	1.52
Thermal Conductivity (W/m x K)		0.2	0.2	0.2
Specific Volume Resistance Ratio (Ohm x cm)		4.0 x 10 ¹⁴	3.2 x 10 ¹⁴	6.6 x 10 ¹⁴
Chemical Resistance	Toluene	+	+	+
	Acetone	+	+	+
	Methanol	-	-	-
	Distilled H ₂ O	-	-	-
	Fuel	+	+	+
	Lubricant	+	+	+
	NaCl (10%)	-	-	-
	HCl (10%) NaOH (5%)	-	-	-
Operating Temperature		-40°C to +200°C	-40°C to +200°C	-40°C to +200°C

+ = Has a Reaction
- = No Reaction

Catalog Number	Quantity of Deflection (mm)	Load at Deflection (kgf)
A10Z61MTHB	6.3 +/-1	0.010
A10Z61MTHA	3.3 +/-1	0.010
A10Z61MTHC	5 +/-1	0.026
A10Z61MHTHW	4.4 +/-0.5	0.208
A10Z61MMN03	3.5 +/-1	0.031
A10Z61MMN05	3.5 +/-1	0.052
A10Z61MMN07	3.5 +/-1	0.073
A10Z61MMN10	3.5 +/-1	0.104
A10Z61MSF02	4 +/-0.5	0.031
A10Z61MSF05	4 +/-0.5	0.078
A10Z61MSF10	4 +/-0.5	0.146

* JIS K 2207

** Japan Rubber Association Standard (SRIS 0101)

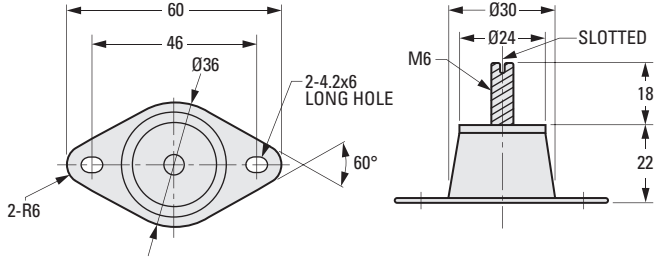
TO BE USED IN COMPRESSION ONLY
 FOR SMALL TO INTERMEDIATE LOAD APPLICATIONS
 DAMPS LOW FREQUENCY VIBRATION
 CAN BE USED WHEN SPACE IS LIMITED

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> MATERIAL:

- Stud** - Steel, Unichro Plated
- Body** - Silicone Gel
- Flange Plate** - Stainless Steel

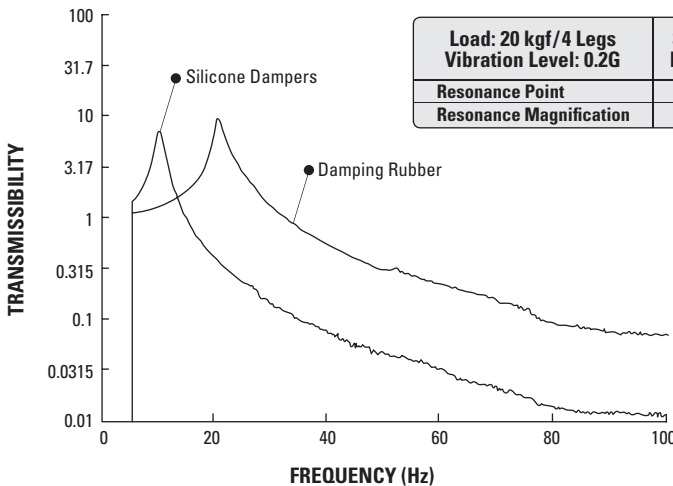


METRIC COMPONENT

Catalog Number	Optimum Load kgf/leg
A10Z61MSF02	1.25 to 3.25
A10Z61MSF05	3.25 to 7.5
A10Z61MSF10	7.5 to 12.5

TYPICAL CHARACTERISTICS OF THE SILICONE MOUNTS

(Example Shown: A10Z61MMN05)



DOUBLE-STUDED SILICONE GEL VIBRATION DAMPERS



TO BE USED IN COMPRESSION ONLY
FOR SMALL TO INTERMEDIATE LOAD APPLICATIONS
DAMPS LOW FREQUENCY

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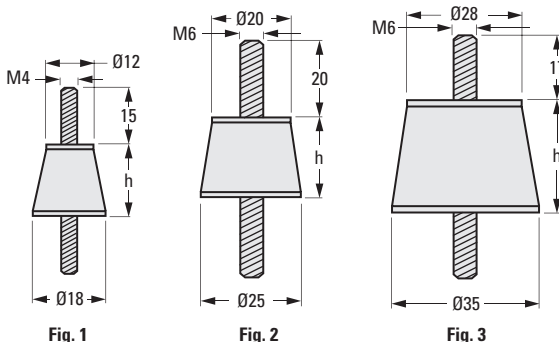


> MATERIAL:

Studs - Fig. 1 & 2: Brass, Nickel Plated
Fig. 3: Steel, Unichro Plate

Body - Silicone Gel

See application page for proper usage.



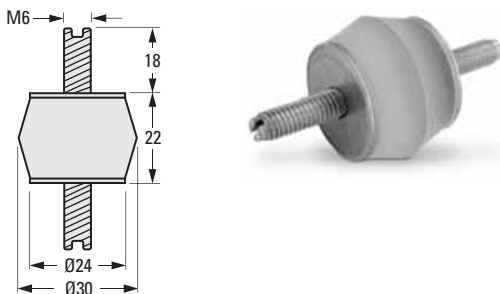
METRIC COMPONENT

Catalog Number	Fig. No.	Optimum Load kgf/leg	Resonance Point Hz	Resonance Magnification dB	Recommended Frequency Hz	h mm
A10Z61MTHB	1	0.4 to 0.6	13 to 11	13 to 12	18 ~	18
A10Z61MTHA	1	0.5 to 0.8	16 to 15	12	23 ~	12
A10Z61MTHC	2	0.8 to 2	14 to 12	13 to 12	20 ~	18
A10Z61MTHTW	3	12.5 to 25	10 to 8	20 to 19	from 14	25

> MATERIAL:

Studs - Steel, Unichro Plate
Body - Silicone Gel

See application page for proper usage.



METRIC COMPONENT

Catalog Number *	Optimum Load kgf/leg	Resonance Point Hz	Resonance Magnification dB	Recommended Frequency Hz
A10Z61MMN03	2 to 3.5	12 to 10	12	17 ~
**A10Z61MMN05	3.5 to 5.5	11 to 10	14 to 13	16 ~
A10Z61MMN07	5.5 to 8.5	11 to 10	16 to 15	16 ~
A10Z61MMN10	8.5 to 12.5	11 to 10	20 to 18	16 ~

* This type is slotted on the stud for fixing a bolt.

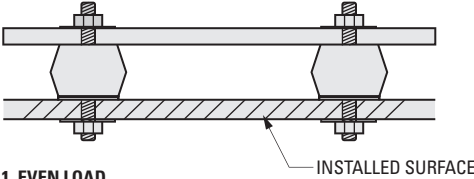
** See the next page for Transmissibility Chart.



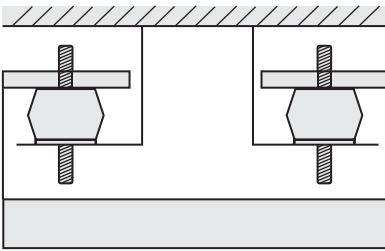
> FEATURES:

- Highest damping effect arises when gel is compressed 10% up to 30%.
- Low in temperature dependency, this material offers stable performance from -40°C to +200°C
- Excellent chemical resistance.
- Low in compression set.
- Performance stays the same even after repeated use.
- Contains nothing harmful. Environment-friendly.

> RIGHT USE:

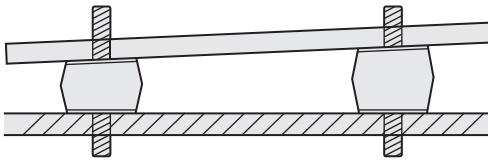


1. EVEN LOAD

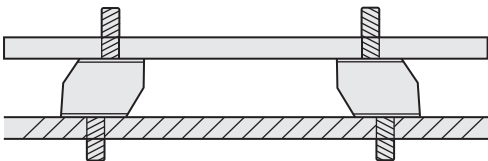


2. HANG IN COMPRESSIVE DIRECTION

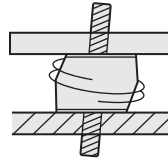
> WRONG USE:



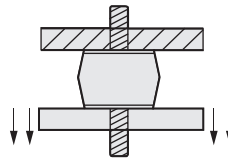
1. UNEVEN LOAD



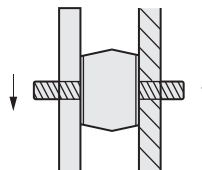
2. BOLT HOLE OUT OF CENTER



3. TWIST



4. TENSILE DIRECTION



5. SHEARING DIRECTION

SPRING AND SILICONE GEL VIBRATION DAMPERS

SDP/SI

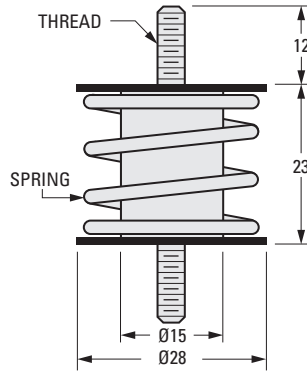
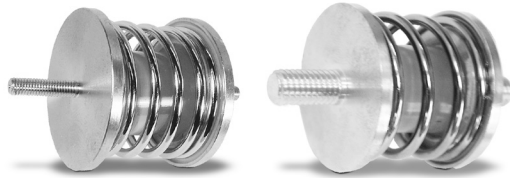
TO BE USED IN COMPRESSION ONLY
 DAMPS LOW FREQUENCY VIBRATIONS
 VERTICAL VIBRATIONS DAMPED WITHOUT HORIZONTAL DEFLECTION

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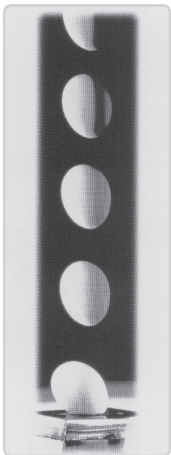
> MATERIAL:

- Studs** - Brass
- Body** - Silicone Gel
- Spring** - Piano Wire Type B, Nickel Plated



METRIC COMPONENT

Catalog Number	Optimum Load kgf/leg	Resonance Point Hz	Resonance Magnification dB	Recommended Frequency Hz	Thread
A10Z61MBG7	0.8 to 1.6	10 to 8	16 to 14	from 14	M3
A10Z61MBG8	1.5 to 4		18 to 16		M6



Demonstration of Silicone Gel's outstanding shock-absorbing abilities.

An ordinary fresh raw egg dropped down from 18 meters high to a 2 cm thick Silicone Gel bed does not break. It is publicly proven many times.



PROTECTS FRAGILE SUBJECTS FROM
MICRO-VIBRATIONS AND LIGHT SHOCKS

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> MATERIAL:

- Collar - Brass
- Bushing - Silicone Gel

More technical data is given on preceding pages.

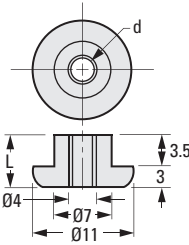


Fig. 1

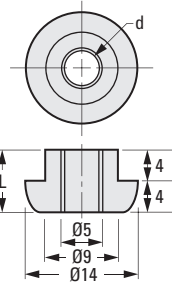
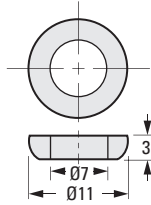
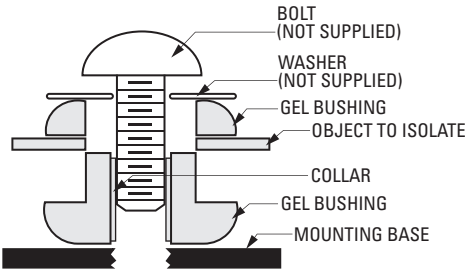
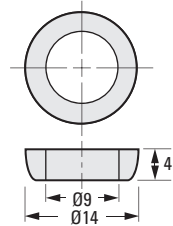


Fig. 2



INSTALLATION DIAGM

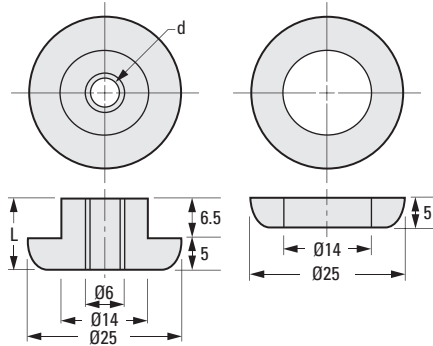


Fig. 3

METRIC COMPONENT

Catalog Number	Fig. No.	d Collar I.D.	L Collar Length	Collar Thickness	Optimum Load kgf/leg	Resonance Point Hz	Resonance Magnification dB	Recommended Frequency Hz
A10Z61MS	1	3	6	0.5	0.05 to 0.188	64 to 42	7 to 9	0.05 kg • 90 ~ 0.188 kg • 60 ~
A10Z61MA1	2	3	7	1	0.125 to 0.625	67 to 35	9 to 10	0.125 kg • 95 ~ 0.625 kg • 50 ~
A10Z61MA2	2	3	7	1	0.625 to 1	49 to 37	15 to 16	0.625 kg • 70 ~ 1 kg • 55 ~
A10Z61MB1	3	4	11	1	1 to 3.75	49 to 23	15 to 17	1 kg • 70 ~ 3.75 kg • 35 ~
A10Z61MB2	3	4	11	1	3.75 to 8	20 to 15	19 to 23	3.75 kg • 30 ~ 8 kg • 25 ~

SILICONE GEL SHEETS

SDP/SI

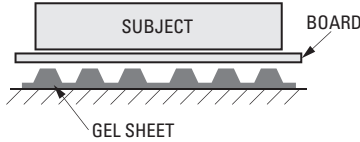
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LOW RESONANCE MAGNIFICATION
 OZONE, UV AND CHEMICAL RESISTANT
 SHOCK ABSORBER
 REDUCES NOISE



➤ **MATERIAL:**
 Silicone Gel

➤ **INSTALLATION:**

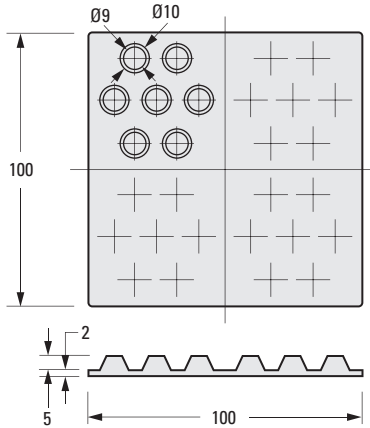


Divide for light load. Add for heavy load.
 Make sure of total subject load and then
 select optimum gel sheet.

Example:
 For 0.3 kgf load, add a board for extra weight
 or divide **A10Z62MSN02** to reduce projections.

For 10 kgf load, divide **A10Z62MSN15** into pieces.

For 80 kgf load, use two of **A10Z62MSN50** and
 divide if needed.



METRIC COMPONENT

Catalog Number	Optimum Load kgf/sheet	Resonance Point Hz	Resonance Magnification dB	Recommended Frequency Hz	Deflection mm	Color
A10Z62MSN02	0.5 to 2	27 to 21	6	from 38	1.4 to 3	Yellow
A10Z62MSN05	2 to 5	29 to 23	8	from 40	1.5 to 2.5	Green
A10Z62MSN15	5 to 15	26 to 18	13	from 37	1.1 to 2.2	Orange
A10Z62MSN50	15 to 50	22 to 15	20 to 18	from 30	0.7 to 2	Blue

LOW COMPRESSION SET
HIGH WEATHER RESISTANCE
HIGH CHEMICAL RESISTANCE
EFFECTIVE IN NARROW SPACE

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➤ **MATERIAL:**
Silicone Gel

➤ **OPERATING TEMPERATURE:**
-40°C to +100°C

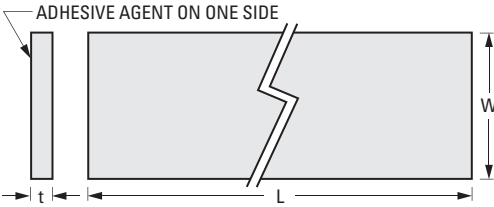


Fig. 1

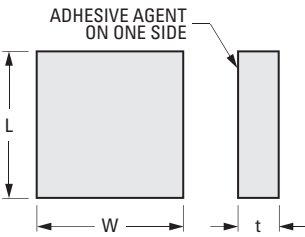


Fig. 2



METRIC COMPONENT

Catalog Number	W	L	t
Fig. 1 Tape			
A10Z62MGT1	10	1000	1
A10Z62MGT2	20	1000	1
A10Z62MGT3	10	1000	2
A10Z62MGT4	20	1000	2
A10Z62MGT5	10	1000	3
A10Z62MGT6	20	1000	3
Fig. 2 Chips*			
A10Z62MGC1	10	10	3
A10Z62MGC2	10	10	5
A10Z62MGC3	15	15	3
A10Z62MGC4	15	15	5
A10Z62MGC5	15	15	10
A10Z62MGC6	20	20	3
A10Z62MGC7	20	20	5
A10Z62MGC8	20	20	10

* Priced per sheet (25 chips per sheet)

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SILICONE FOAM SHEETS



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LOW COMPRESSION SET
 OUTSTANDING DURABILITY
 SHOCK ABSORBER
 LOW FLAMMABILITY
 FOR OUTSIDE USE
 DURABLE IN ANY WEATHER



> MATERIAL:

Silicone Foam

> OPERATING TEMPERATURE:

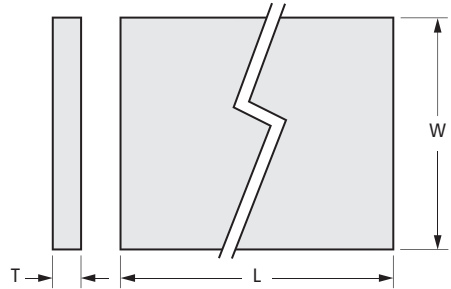
-40°C to +200°C

> CHARACTERISTICS:

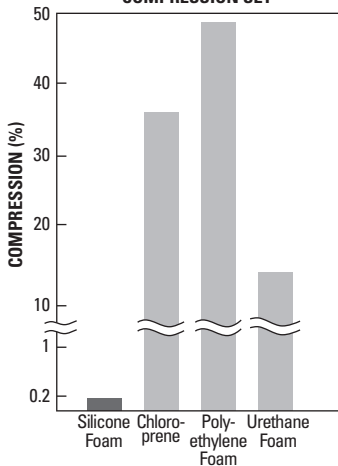
Specific Gravity	0.26	
Tensile Strength (Mega Pascal)	0.32	
Elongation (%)	73	
Young's Modulus (Kilo Pascal)	269.5	
Specific Heat (Joule/g • °K)	1.15	
Thermal Conductivity (Watt/m • °K)	0.06	
Specific Volume Resistance Ratio ($\Omega \cdot \text{cm}$)	3.8×10^{14}	
Dielectric Breakdown Strength (kV/mm)	3.8	
Chemical Resistance	Toluene	X
	Acetone	X
	Methanol	0
	Distilled H ₂ O	0
	Fuel	X
	Lubricant	X
	NaCl (10%)	0
	HCl (10%)	0
	NaOH (5%)	0

X = Has a reaction

0 = No reaction



COMPRESSION SET



1. Compress the materials by 50% and leave compressed for 22 hours in +70°C.
2. Release compression and leave subject in normal temperature for 30 minutes.

METRIC COMPONENT

Catalog Number	W Width	T Thickness	L Length	Color
A 10Z62MNPGRN0500	450	3	500	Green
A 10Z62MNPGRN2000	450	3	2000	Green
A 10Z62MNPWTE0500	300	6	500	White
A 10Z62MNPWTE1000	300	6	1000	White

FOR COMPRESSION LOADS OF 2 TO 6 kgf
SHEAR LOADS OF 1 TO 3 kgf

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► **MATERIAL:**

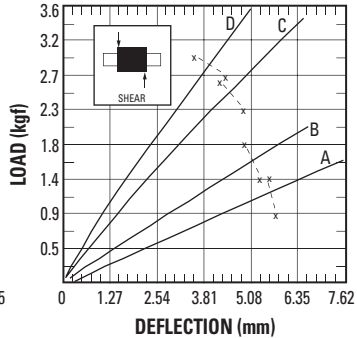
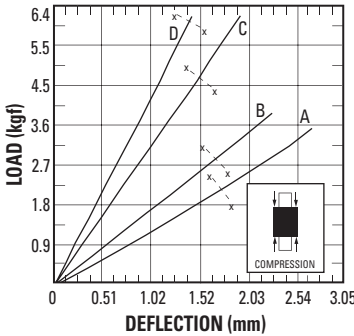
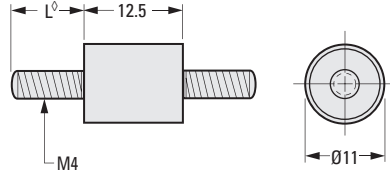
Fastener - Steel, Zinc Plated
Isolator - Natural Rubber

► **NOTE:**

Maximum unthreaded portion of stud does not exceed 1.59 mm.

► **LOAD DEFLECTION GRAPHS:**

Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



METRIC COMPONENT CATALOG NUMBER

A 10Z 2 M 302 **M 4**
Load Rating — A, B, C or D Length, L
07 = 7 mm **
10 = 10 mm

Compression		Forcing Frequency in Cycles per Minute									
Load Rating	Maximum Load kgf	1000	1250	1500	1750	2000	2250	2500	2750	3000	3600
		Minimum Load for 81% Isolation (kgf)									
A	2.2	-	-	-	-	1.8	1.4	1.1	0.9	0.8	0.5
B	2.9	-	-	-	-	2.4	1.9	1.5	1.3	1.1	0.7
C	4.7	-	-	-	-	4.5	3.5	2.9	2.4	2	1.2
D	6	-	-	-	-	5.9	4.7	3.9	3.2	2.6	1.9

Shear		Forcing Frequency in Cycles per Minute									
Load Rating	Maximum Load kgf	1000	1250	1500	1750	2000	2250	2500	2750	3000	3600
		Minimum Load for 81% Isolation (kgf)									
A	1.2	1.18	0.77	0.54	0.45	0.32	0.22	*	*	*	*
B	1.6	-	1.18	0.87	0.63	0.5	0.37	0.32	0.28	*	*
C	2.5	-	2.14	1.45	1.13	0.87	0.68	0.59	0.5	0.41	0.32
D	2.9	-	2.76	2	1.54	1.22	1	0.82	0.72	0.63	0.45

* At these forcing frequencies, lesser loads will yield less than 81% isolation.

** To be discontinued when present stock is depleted.

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FOR COMPRESSION LOADS OF 18 TO 34 kgf
SHEAR LOADS OF 9 TO 19 kgf

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► MATERIAL:

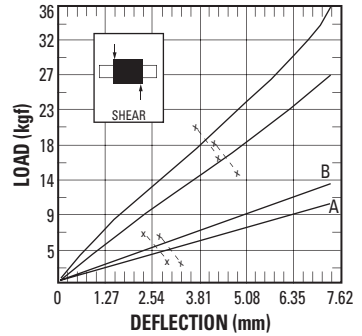
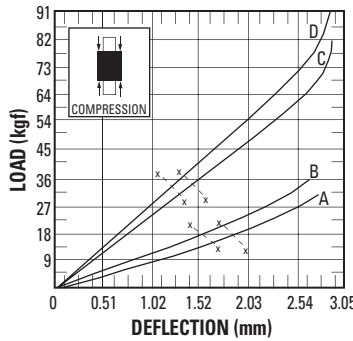
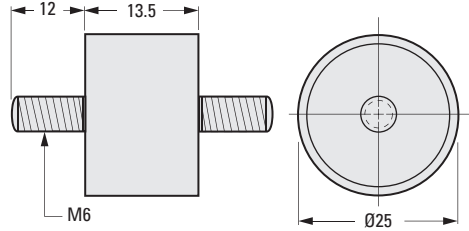
Fastener - Steel, Zinc Plated
Isolator - Natural Rubber

► NOTE:

Maximum unthreaded portion of stud does not exceed 1.59 mm.

► LOAD DEFLECTION GRAPHS:

Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



METRIC COMPONENT CATALOG NUMBER

A 10Z 2 M 305 M 06

Load Rating

A, B, C or D

Compression		Forcing Frequency in Cycles per Minute									
Load Rating	Maximum Load kgf	1100	1250	1500	1750	2000	2250	2500	2750	3000	3600
		Minimum Load for 81% Isolation (kgf)									
A	18.2	-	-	-	-	13.8	10.9	8.8	7.3	6.1	4.5
B	19.5	-	-	-	-	17.2	13.6	11.3	9.3	7.9	5.7
C	33.6	-	-	-	-	33.6	26.5	21.6	17.9	15	10.7
D	34	-	-	-	-	-	30.6	25.2	20.6	17.5	12.5

Shear		Forcing Frequency in Cycles per Minute									
Load Rating	Maximum Load kgf	1100	1250	1500	1750	2000	2250	2500	2750	3000	3600
		Minimum Load for 81% Isolation (kgf)									
A	8.6	7.1	5.7	3.8	2.9	*	*	*	*	*	*
B	9.5	8.6	7	4.8	3.6	2.9	2.3	*	*	*	*
C	16.8	-	14.3	10.2	7.7	6.4	5.2	4.3	*	*	*
D	19	-	18.1	13.3	10	8.4	7.2	5.9	5	4.3	*

* At these forcing frequencies, lesser loads will yield 81% isolation.

FOR COMPRESSION LOADS OF 15 TO 36 kgf
SHEAR LOADS OF 8 TO 18 kgf

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► **MATERIAL:**

Fastener - Steel, Zinc Plated
Isolator - Natural Rubber

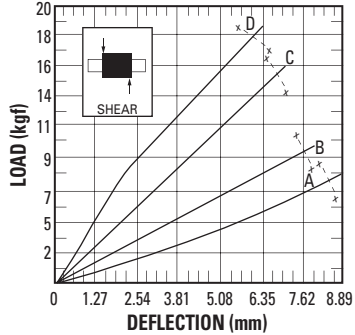
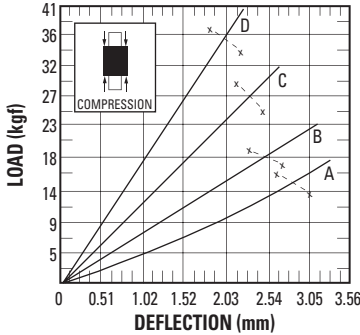
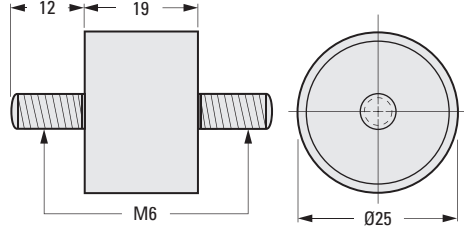
► **NOTE:**

Maximum unthreaded portion of stud does not exceed 1.59 mm.



► **LOAD DEFLECTION GRAPHS:**

Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



METRIC COMPONENT CATALOG NUMBER

A 10Z 2M 300 □ M 06

Load Rating
A, B, C or D

Compression		Forcing Frequency in Cycles per Minute									
Load Rating	Maximum Load kgf	850	1100	1250	1500	1750	2000	2250	2500	3000	3600
		Minimum Load for 81% Isolation (kgf)									
A	15	-	-	-	13.2	9.5	7.3	5.7	4.8	3.2	2.3
B	18.1	-	-	-	17.9	12.9	9.8	7.7	6.4	4.3	3.2
C	27.2	-	-	-	-	22.2	16.8	13.4	10.9	7.7	5.2
D	35.9	-	-	-	-	32.9	25	19.7	16.3	11.1	7.7

Shear		Forcing Frequency in Cycles per Minute									
Load Rating	Maximum Load kgf	850	1100	1250	1500	1750	2000	2250	2500	3000	3600
		Minimum Load for 81% Isolation (kgf)									
A	8.2	7.3	4.2	3.3	2.3	1.7	1.3	1	0.8	0.5	*
B	9.5	-	5.9	4.6	3.2	2.3	1.8	1.4	1.2	0.8	*
C	15.4	-	11.1	9.1	6.7	5.1	4.1	3.4	2.8	2	1.6
D	18.1	-	14.5	11.8	8.6	6.7	5.5	4.5	3.8	2.7	2.3

* At these forcing frequencies, lesser loads will yield 81% isolation.



FOR COMPRESSION LOADS OF 21 TO 48 kgf
SHEAR LOADS OF 12 TO 30 kgf

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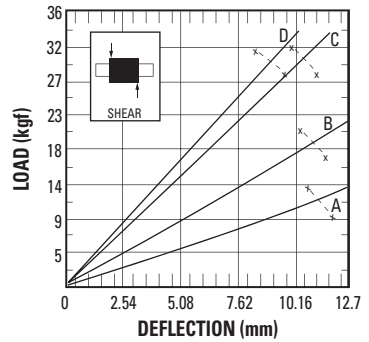
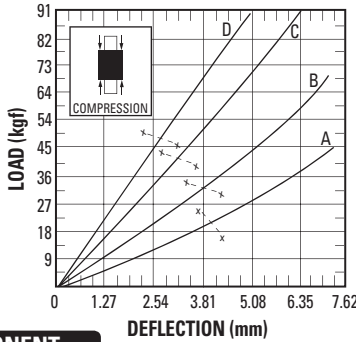
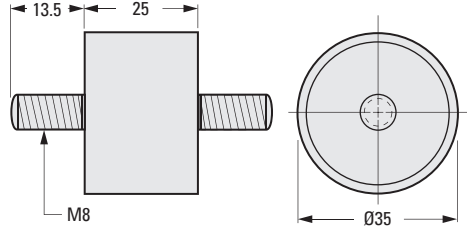
► **MATERIAL:**

Fastener - Steel, Zinc Plated
Isolator - Natural Rubber



► **LOAD DEFLECTION GRAPHS:**

Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



**METRIC COMPONENT
CATALOG NUMBER**

A 10 Z 2 M 3 11 □ M 08

Load Rating
A, B, C or D

Compression		Forcing Frequency in Cycles per Minute									
Load Rating	Maximum Load kgf	700	850	1100	1250	1500	1750	2000	2250	2500	3000
		Minimum Load for 81% Isolation (kgf)									
A	21.3	-	-	-	20.2	13.6	10	8.2	6.1	5	-
B	33.6	-	-	-	32.9	22	16.1	12.3	9.5	7.9	5.7
C	43.5	-	-	-	-	34.3	25.5	19.5	15.4	12.7	8.8
D	47.6	-	-	-	-	45.4	33.1	25.6	20.4	17.2	11.6

Shear		Forcing Frequency in Cycles per Minute									
Load Rating	Maximum Load kgf	700	850	1100	1250	1500	1750	2000	2250	2500	3000
		Minimum Load for 81% Isolation (kgf)									
A	12.3	12.3	8.8	5.2	4.1	2.7	*	*	*	*	*
B	18.6	-	14.1	8.6	6.6	4.8	3.6	*	*	*	*
C	29.9	-	24.3	15	12	8.6	6.4	5.2	4.1	*	*
D	29.9	-	27.7	17.2	13.8	10	8.8	5.9	4.8	3.9	*

* At these forcing frequencies, lesser loads will yield 81% isolation.

FOR COMPRESSION LOADS OF 19 TO 54 kgf
SHEAR LOADS OF 10 TO 29 kgf

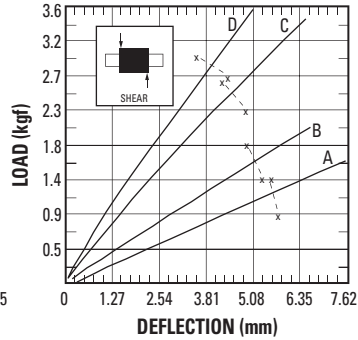
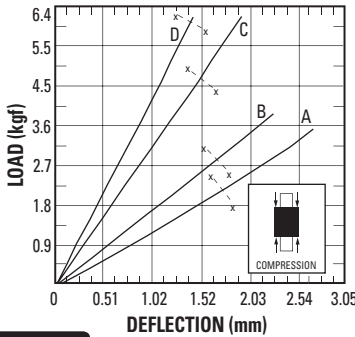
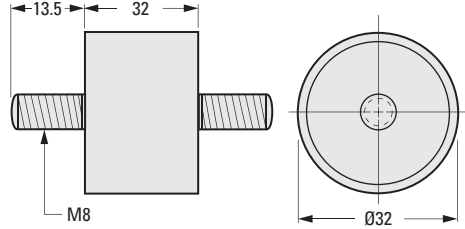
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> **MATERIAL:**

Fastener - Steel, Zinc Plated
Isolator - Natural Rubber

> **LOAD DEFLECTION GRAPHS:**

Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



METRIC COMPONENT CATALOG NUMBER

A 10Z 2 M 310 □ M 08

Load Rating
A, B, C or D

Compression		Forcing Frequency in Cycles per Minute									
Load Rating	Maximum Load kgf	600	850	950	1100	1250	1500	1750	2000	2500	3000
		Minimum Load for 81% Isolation (kgf)									
A	18.6	-	-	-	15.7	12.5	8.6	6.4	4.5	3.2	-
B	29	-	-	-	-	21.8	14.5	10.9	7.9	5.5	3.9
C	40.8	-	-	-	-	36.3	25	18.8	13.6	9.1	6.4
D	54.4	-	-	-	-	-	40.4	32	24	17.5	12

Shear		Forcing Frequency in Cycles per Minute									
Load Rating	Maximum Load kgf	600	850	950	1100	1250	1500	1750	2000	2500	3000
		Minimum Load for 81% Isolation (kgf)									
A	9.5	9.1	5	3.9	3	2.5	*	*	*	*	*
B	14.1	-	8.2	6.4	4.8	3.6	2.5	*	*	*	*
C	21.8	-	14.3	11.3	8.8	7	5	3.9	*	*	*
D	28.6	-	22.7	18.6	14.8	12.5	9.3	7.3	6.4	3.6	*

* At these forcing frequencies, lesser loads will yield 81% isolation.

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CYLINDRICAL MOUNTINGS • TO 64 kgf



FOR COMPRESSION LOADS OF 25 TO 64 kgf
SHEAR LOADS OF 15 TO 29 kgf

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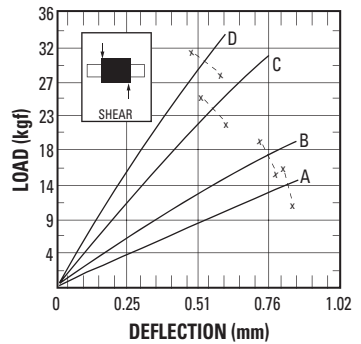
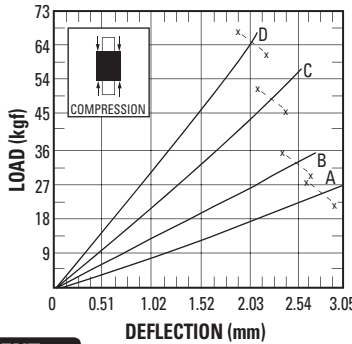
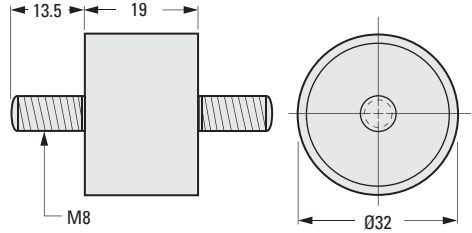


➤ MATERIAL:

Fastener - Steel, Zinc Plated
Isolator - Natural Rubber

➤ LOAD DEFLECTION GRAPHS:

Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



METRIC COMPONENT CATALOG NUMBER

A 10 Z 2 M 3 1 4 □ M 0 8

Load Rating
A, B, C or D

Compression		Forcing Frequency in Cycles per Minute									
Load Rating	Maximum Load kgf	950	1100	1250	1500	1750	2000	2250	2500	3000	3600
		Minimum Load for 81% Isolation (kgf)									
A	25.4	-	-	-	22.7	17.2	12.9	10.2	8.2	5.7	-
B	33.1	-	-	-	33.1	23.1	17.7	13.8	11.1	7.5	5.5
C	49.5	-	-	-	-	38.6	28.8	22.7	18.6	12.7	9.1
D	64.4	-	-	-	-	58.5	44.9	35.4	29	20	13.6

Shear		Forcing Frequency in Cycles per Minute									
Load Rating	Maximum Load kgf	950	1100	1250	1500	1750	2000	2250	2500	3000	3600
		Minimum Load for 81% Isolation (kgf)									
A	14.5	10.4	8.2	6.6	4.5	3.4	*	*	*	*	*
B	17.2	14.5	11.1	8.6	5.9	4.3	3.2	*	*	*	*
C	23.1	-	20.2	16.3	11.8	8.8	6.4	5.5	4.5	*	*
D	29	-	26.3	21.1	15.4	12.3	9.3	7.7	6.4	4.3	*

* At these forcing frequencies, lesser loads will yield 81% isolation.

FOR COMPRESSION LOADS OF 42 TO 84 kgf
SHEAR LOADS OF 16 TO 30 kgf

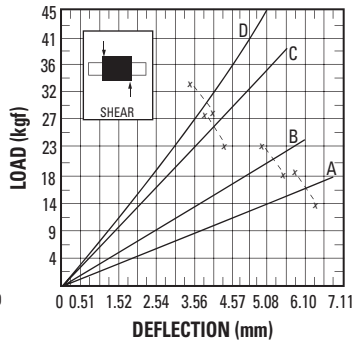
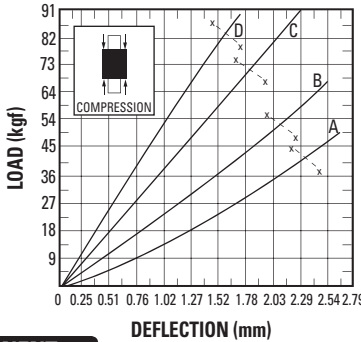
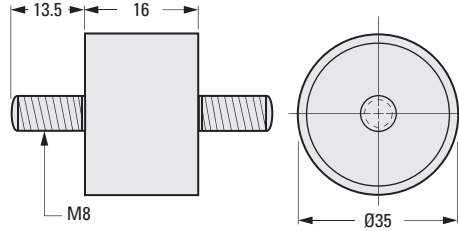
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► **MATERIAL:**

Fastener - Steel, Zinc Plated
Isolator - Natural Rubber

► **LOAD DEFLECTION GRAPHS:**

Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



METRIC COMPONENT CATALOG NUMBER

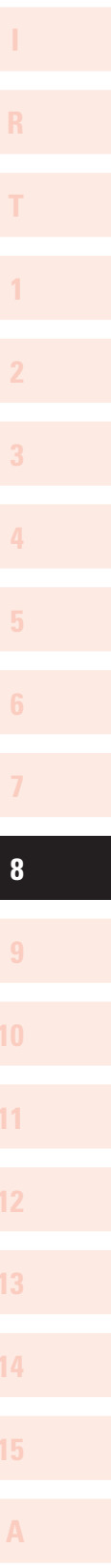
A 10Z 2M 312 M 08

Load Rating
A, B, C or D

Compression		Forcing Frequency in Cycles per Minute									
Load Rating	Maximum Load kgf	950	1100	1250	1500	1750	2000	2250	2500	2750	3000
		Minimum Load for 81% Isolation (kgf)									
A	42.2	-	-	-	-	32.2	23.1	17.7	14.1	11.3	-
B	53.5	-	-	-	-	48.1	36.7	29	23.6	19.5	15.9
C	71.7	-	-	-	-	-	54.9	43.5	35.8	29.5	24.5
D	83.9	-	-	-	-	-	74.4	59.4	49.5	40.8	33.6

Shear		Forcing Frequency in Cycles per Minute									
Load Rating	Maximum Load kgf	950	1100	1250	1500	1750	2000	2250	2500	2750	3000
		Minimum Load for 81% Isolation (kgf)									
A	16.3	15.4	11.3	8.6	6.1	4.5	*	*	*	*	*
B	20.9	-	17.2	13.6	9.5	7.3	5.5	4.3	*	*	*
C	25.9	-	-	22.7	15.9	11.8	9.1	7.3	5.9	*	*
D	30.4	-	-	29.9	20.9	15.4	11.8	9.5	8.2	6.4	*

* At these forcing frequencies, lesser loads will yield 81% isolation.



CYLINDRICAL MOUNTINGS • TO 95 kgf



FOR COMPRESSION LOADS OF 43 TO 95 kgf
NOT RECOMMENDED FOR STATIC SHEAR LOADS

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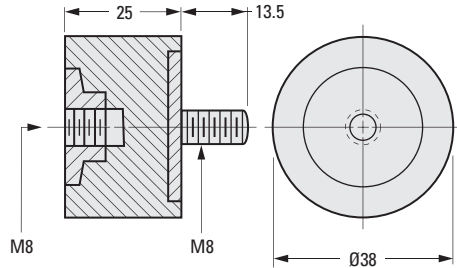
› MATERIAL:

Fastener - Steel, Zinc Plated
Isolator - Natural Rubber

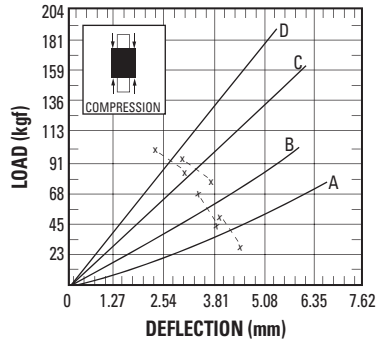


› LOAD DEFLECTION GRAPHS:

Deflections below the line x-x are considered safe practice for static loads; data above that line are useful for calculating deflections under dynamic loads.



The projections shown are per ISO convention.



METRIC COMPONENT CATALOG NUMBER

A 10 Z 2 M 3 0 8 □ M 0 8

Load Rating
A, B, C or D

Compression		Forcing Frequency in Cycles per Minute						
Load Rating	Maximum Load kgf	1150	1250	1500	1750	2000	2750	3500
Minimum Load for 81% Isolation (kgf)								
A	43.1	43.1	36.3	25	18.2	13.6	6.8	—
B	61.2	—	56.7	38.6	27.2	20.4	10	—
C	83.9	—	—	63.5	45.4	34	18.2	11.3
D	95.3	—	—	83.9	61.2	47.6	25	15.9

CONICAL BUMPERS



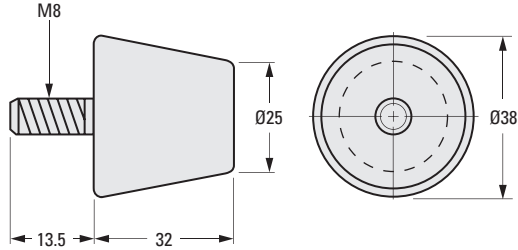
FOR LOADS OF 20 TO 28 kgf

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> **MATERIAL:**

Fastener - Steel, Zinc Plated

Isolator - Natural Rubber



The projections shown are per ISO convention.

METRIC COMPONENT

Catalog Number	Recommended Maximum Load	
	Static kgf	Occasional Dynamic kgf
A10Z 7M1020AM	20	36.3
A10Z 7M1020BM	22.2	45.4
A10Z 7M1020CM	25.4	55.3
A10Z 7M1020DM	28.1	65.8

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RING MOUNTINGS



FOR STANDARD LOADS OF 75 TO 1200 kgf
(165 TO 2645 lb.)

PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM

> MATERIAL:

Mounting Plates - Steel, Plated
Isolators - Natural Rubber

> FEATURES:

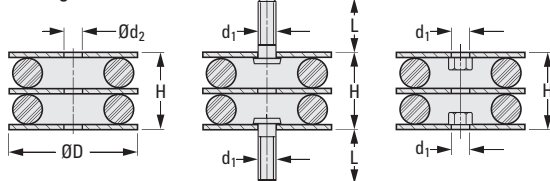
Low natural frequency.
Constant natural frequency
in a wide range of loads.
Excellent stability.
Multiple layers are possible.
Very easy to install.

> APPLICATIONS:

Compressors
Pumps
Blowers
Transformers
Lightweight Machines
Office Equipment
Measuring Instruments
Scales



Two Ring Mounts

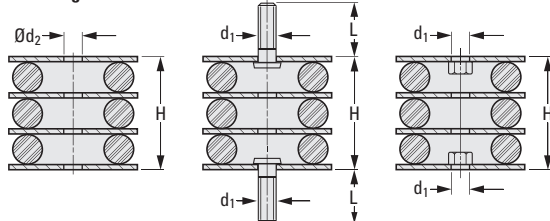


Style 2HH

Style 2BB

Style 2NN

Three Ring Mounts

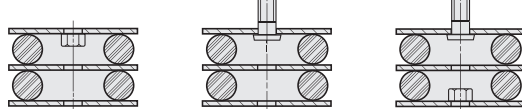


Style 3HH

Style 3BB

Style 3NN

Combination Mounts



Style HN

Style HB

Style BN

NOTE: These combination mounts shown above are also available with three rings

Dimensions in () are inch.

METRIC COMPONENT CATALOG NUMBER

A 1 0 Z 4 7 M R M

Load Code

Mounting Style:

(See drawings at right)

HH, BB, NN, HN, HB, or BN

Load Code No.	Rings	Load Range				Defl. with Std. Load		*Nat. Freq. (cpm)	D Dia.		H		d ₁ Thread	d ₂	L
		Standard Load		Lower Limit... Upper Limit		mm	in.		mm	in.					
		kgf	lb.	kgf	lb.										
0602	2	75	165	25...100	55...220	10	.39	450	60	35	1.38	M8	11	30	
	15					.59	(2.36)		51	2.00					
0802	2	150	331	50...200	110...441	13	.51	378	80	46	1.81	M10	13	(1.18)	
	20					.79	(3.15)		67	2.64					
1202	2	300	661	100...400	220...882	20	.79	312	120	66	2.60	M12	15	35	
	30					1.18	(4.72)		97	3.82					
1602	2	600	1322	200...800	440...1763	26	1.02	270	160	86	3.39	M16	19	55	
	39					1.54	(6.30)		126	4.96					
2302	2	1200	2645	400...1600	882...3526	35	1.38	228	230	114	4.49	M16	19	55	
	53					2.09	(9.06)		168	6.61					
2303	3														

* The natural frequency of n layers is 2 layers natural frequency x $\sqrt{\frac{2}{n}}$

M-STYLE MOUNTINGS

FOR STANDARD LOADS OF 15 TO 125 kgf

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› **MATERIAL:**

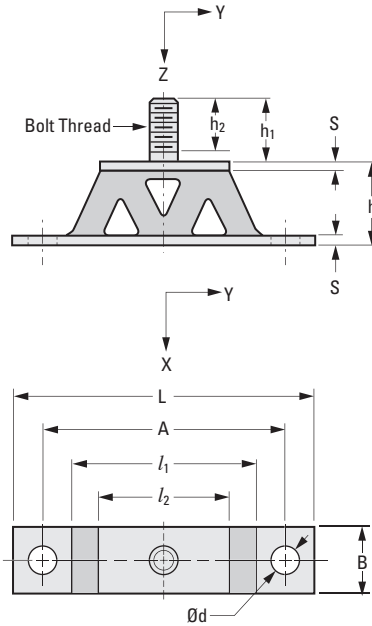
Mounting Plates - Mild Steel, Painted
Isolators - Natural Rubber, 60 Durometer

› **FEATURES:**

Compared with circular rubber mountings, they ensure lower spring rate in vertical direction and higher stability in horizontal direction. Suited for machines which generate considerable vibrations during low-speed operation.
 Excellent in controlling vibrations of 600 cpm or higher.
 Can be installed in very small areas because of its narrow width.
 Used for oscillating motions.

› **APPLICATIONS:**

Vibration Screen
 Vibration Conveyors
 Vibration Sieves
 Instrument Panels
 Refrigerators
 Compressors



The projections shown are per ISO convention.

METRIC COMPONENT

Catalog Number	L	A	B	l_1	l_2	S	h	h_1	h_2	d Dia.	Bolt Thread
A10Z46MKD040	125	104	30	80	55	4.5	40	29	25	11	M10
A10Z46MKD045	160	130	35	100	70	4.5	45	34	32	14	M12
A10Z46MKD055	210	170	40	130	90	6	55	54	50	17	M16
A10Z46MKD065	245	205	50	165	115	9	65	52	50	20	M16

Catalog Number (Ref.)	Standard Load in Z Direction kgf	Allowable Load kgf			Spring Rate in Z dir. Kz kgf/cm	Stiffness Ratio Kx/Kz	Stiffness Ratio Ky/Kz
		Z Dir.	X Dir.	Y Dir.			
A10Z46MKD040	15...35	70	12	14	200	0.17	0.2
A10Z46MKD045	30...50	100	22	20	250	0.22	0.2
A10Z46MKD055	50...90	175	45	35	290	0.25	0.2
A10Z46MKD065	80...125	250	45	40	370	0.19	0.16

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FOR STANDARD LOADS OF 4 TO 900 kgf (9 TO 1980 lb.)

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FEATURES:

Compared with circular rubber mountings these have higher stiffness in horizontal direction "X" and better stability. They are also well-suited for rotating machines which generate vibrating forces in the horizontal direction.

Easy to install. The spring rate can be changed just by altering the mounting positions.

For the base plate attached type (Fig. 2), a rubber pad is fitted to the base plate so that the machine can be placed on the floor.

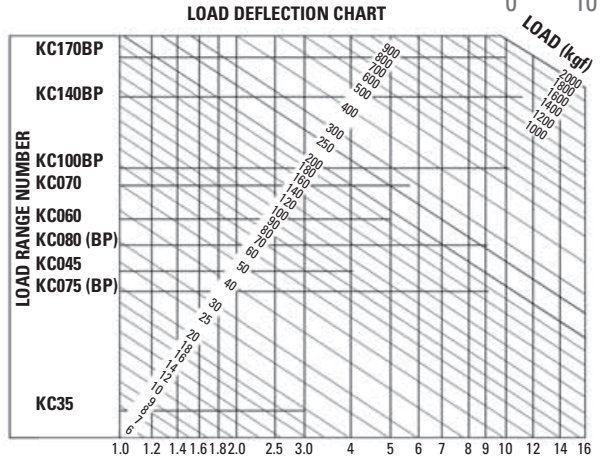


Fig. 1 & Fig. 3 Shown



DEFLECTION mm

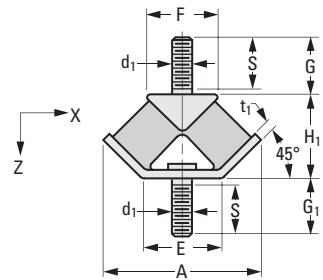
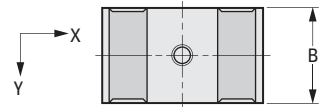


Fig. 1 Without Base Plate

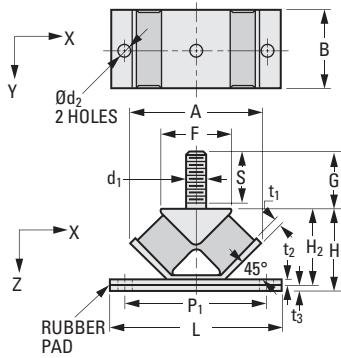


Fig. 2 With Base Plate

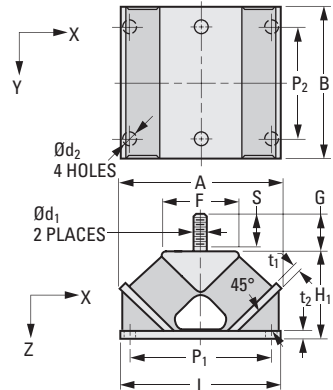


Fig. 3 With Base Plate

V-STYLE MOUNTINGS SELECTION DATA

SDP/SI

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► MATERIAL:

Mounting Plates - Mild Steel, Painted
Isolators - Natural Rubber

► APPLICATIONS:

Air Compressors
Vibration Screens
Horizontal Centrifugal Separators
Machine Tools
Vibration Sieves
High-Speed Diesel Engines

► DIMENSIONS:

Measured in mm and (inches)

METRIC COMPONENT CATALOG NUMBER

A 1 0 Z 4 5 M

Load Range Number

Use information in both tables below to determine appropriate Load Range Number

Base Plate - BP

(Where applicable)



Load Range Number	A	B	E	F	d ₁ Thread	G	G ₁	S	t ₁	L	P ₁	P ₂	H ₁	H ₂	d ₂	t ₂	t ₃
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Fig. 1 Without Base Plate

KC035	60 (2.4)	30 (1.2)	30 (1.2)	26 (1.0)	M10	31 (1.2)	29 (1.1)	25 (1.0)	4.5 (.18)	-	-	-	35 (1.4)	-	-	-	-
KC045	82 (3.2)	50 (2.0)	40 (1.6)	40 (1.6)	M12	35 (1.4)	34 (1.3)	32 (1.3)	4.5 (.18)	-	-	-	45 (1.8)	-	-	-	-
KC060	108 (4.3)	70 (2.8)	45 (1.8)	56 (2.2)	M12	45 (1.8)	43.5 (1.7)	40 (1.6)	6 (.24)	-	-	-	60 (2.4)	-	-	-	-
KC070	124 (4.9)	90 (3.5)	55 (2.2)	65 (2.6)	M16	52 (2.0)	52 (2.0)	50 (2.0)	8 (.32)	-	-	-	70 (2.8)	-	-	-	-
KC075	135 (5.3)	70 (2.8)	76 (3.0)	56 (2.2)	M12	45 (1.8)	43.5 (1.7)	40 (1.6)	6 (.24)	-	-	-	73 (2.9)	-	-	-	-
KC080	148 (5.8)	90 (3.5)	76 (3.0)	65 (2.6)	M16	52 (2.0)	52 (2.0)	50 (2.0)	8 (.32)	-	-	-	80 (3.1)	-	-	-	-

Fig. 2 With Base Plate

KC075BP	135 (5.3)	70 (2.8)	-	56 (2.2)	M12	45 (1.8)	-	40 (1.6)	6 (.24)	170 (6.7)	140 (5.5)	-	85 (3.3)	79 (3.1)	14 (.55)	6 (.24)	-
KC080BP	148 (5.8)	90 (3.5)	-	65 (2.6)	M16	51.5 (2.0)	-	50 (2.0)	8 (.32)	180 (7.1)	150 (5.9)	-	94 (3.7)	88 (3.5)	18 (.71)	8 (.32)	6 (.24)
KC100BP	180 (7.1)	110 (4.3)	-	100 (3.9)	M20	57 (2.2)	-	46 (1.8)	8 (.32)	240 (9.5)	200 (7.9)	-	114 (4.5)	108 (4.3)	18 (.71)	8 (.32)	6 (.24)

Fig. 3 With Base Plate

KC140BP	250 (9.8)	240 (9.5)	-	127 (5.0)	M20x2	56 (2.2)	-	46 (1.8)	12 (.47)	250 (9.8)	220 (8.7)	175 (6.9)	140 (5.5)	-	18x2 .71x.08	12 (.47)	-
KC170BP	288 (11.3)	180 (7.1)	-	184 (7.2)	M20x2	56 (2.2)	-	46 (1.8)	12 (.47)	300 (11.8)	252 (9.9)	100 (3.9)	170 (6.7)	-	22x2 .87x.08	12 (.47)	-

NOTE: "BP" at the end of the Catalog Number stands for base plate attached type.

Load Range Number	Nominal Load in Z Direction	*ALLOWABLE LOAD kgf (lb.)			Spring Rate Z Direction kgf/cm (lb/in.)	Stiffness Ratio K _x /K _z	Stiffness Ratio K _y /K _z
		Z Dir.	X Dir.	Y Dir.			
KC035	4...10 (9...22)	20 (44)	13 (28)	5 (11)	75 (420)	0.72	0.33
KC045	25...45 (55...99)	90 (196)	55 (121)	25 (55)	235 (1316)	0.64	0.27
KC060	30...95 (66...209)	185 (407)	65 (143)	30 (66)	380 (2128)	0.65	0.28
KC070	50...150 (110...330)	290 (638)	110 (242)	55 (121)	520 (2912)	0.66	0.29
KC075	30...90 (66...198)	170 (374)	105 (231)	40 (88)	170 (952)	0.71	0.31
KC080	35...135 (77...297)	260 (572)	155 (341)	60 (132)	300 (1680)	0.72	0.3
KC075BP	30...90 (66...198)	170 (374)	105 (231)	40 (88)	170 (952)	0.71	0.31
KC080BP	35...135 (77...297)	260 (572)	155 (341)	60 (132)	300 (1680)	0.72	0.3
KC100BP	100...300 (220...660)	600 (1320)	260 (572)	120 (264)	600 (3360)	0.82	0.27
KC140BP	300...650 (660...1430)	1300 (2860)	550 (1210)	250 (550)	1300 (7280)	0.88	0.31
KC170BP	500...900 (1100...1980)	1750 (3850)	650 (1430)	280 (616)	1700 (9520)	0.87	0.27

NOTE: Rubber material is natural rubber of hardness 45 durometer.

* Includes Static and Dynamic Loads.

INCH OR METRIC THREADS
 FOR LOADS OF .5 TO 10 POUNDS (0.25 TO 4.6 kgf)
 STAINLESS STEEL MESH
 CORROSIVE ENVIRONMENT



› MATERIAL:

- Housing** - Aluminum Alloy, Anodized
- Eyelets** - Brass, Tin Plated
- Isolators** - Stainless Steel Spring and Mesh

› OPERATING TEMPERATURE:

-94°F to +347°F (-70°C to +175°C)

› APPLICATIONS:

- Aircraft
- Marine
- Mobile
- Rotating Machines

› WEIGHT:

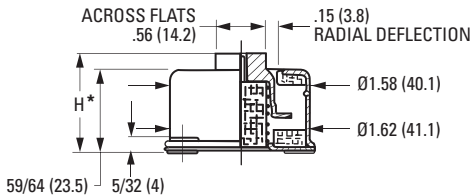
1.4 oz. (0.04 kg) approx.

› DYNAMIC CHARACTERISTICS:

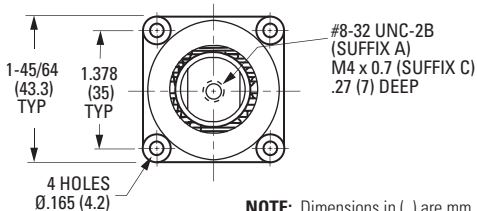
Ratio between transverse and axial stiffness (vertical) approximately 1:2.5
 Natural frequency = 7 to 11 Hz vertical and 4.5 to 7 Hz transverse depending on load, for a displacement input $\pm .014$ (0.35).
 Maximum displacement input $\pm .016$ (0.4)
 Transmissibility $\leq 4:1$
 Conforms to MIL-E-5400

› LOADING LIMITATIONS:

Prior to abutting snubber, load corresponding to a continuous acceleration of at least 2 G. Loads corresponding to at least 10 G may be accepted without subsequently affecting the mount performance. Maximum displacement of the suspended unit under limiting loads $\pm .197$ (5).

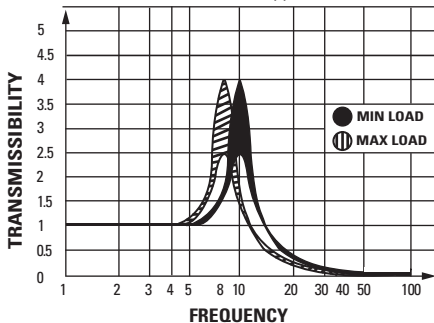


NOTE: MAX BOLT LENGTH INTO CAP IS .276 (7)

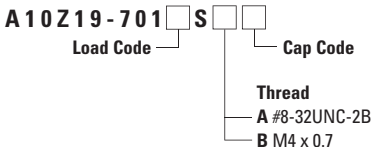


NOTE: Dimensions in () are mm.

TYPICAL TRANSMISSIBILITY CURVE
 as a function of applied load



INCH COMPONENT CATALOG NUMBER



Load Code	Static Load	
	lb.	kgf
1	.55 – 1.00	0.25 – 0.45
2	.80 – 1.80	0.35 – 0.8
3	1.50 – 3.40	0.7 – 1.5
4	2.20 – 5.60	1 – 2.55
5	5.60 – 10.10	2.55 – 4.6

Cap Code	H* - Height			
	Free		Max. Load	
	in.	mm	in.	mm
S - Short	1.50	38	1.09	27.7
L - Long	1.61	41	1.21	30.7

INCH OR METRIC THREADS
 FOR LOADS OF 1.5 TO 242 POUNDS (0.7 TO 110 kgf)
 STAINLESS STEEL MESH
 CORROSIVE ENVIRONMENT

PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM



➤ MATERIAL:

- Housing** - Aluminum Alloy, Anodized
- Eyelets** - Brass, Tin Plated
- Isolators** - Stainless Steel Spring and Mesh

➤ OPERATING TEMPERATURE:

-94°F to +347°F (-70°C to +175°C)

➤ APPLICATIONS:

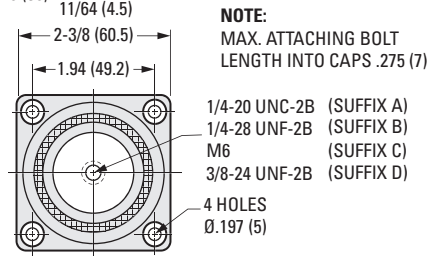
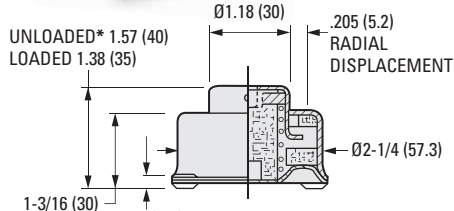
- Aircraft
- Marine
- Mobile
- Rotating Machines

➤ WEIGHT:

3.53 to 4.41 oz. (100 to 125 g) approx.

➤ DYNAMIC CHARACTERISTICS:

In accordance with curve 1 of spec MIL-C-172.
 Ratio Between transverse and axial stiffness (vertical): approximately 1:2.5
 Natural Frequency = 7 to 10 Hz vertical and 4.5 to 6 Hz transverse depending on load for a displacement input of ± .303 (0.75)
 Maximum displacement input ± .031 (0.8)
 Transmissibility: ≤ 4:1
 Conforms to MIL-E-5400C



NOTE:
 MAX. ATTACHING BOLT LENGTH INTO CAPS. .275 (7)

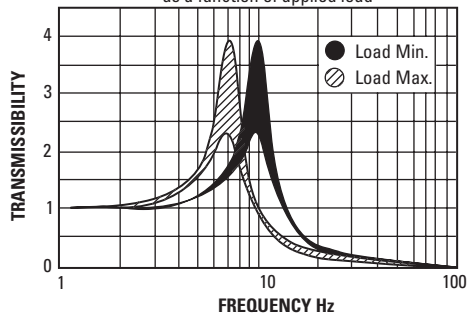
NOTE: Dimensions in () are mm.

➤ LOADING LIMITATIONS:

Just prior to abutting snubber, load corresponding to a continuous acceleration of at least 2 G.
 Loads corresponding to at least 10 G may be accepted without subsequently affecting the mount performance. Maximum displacement of the suspended unit under limiting loads ± .236 (6)

* Long Cap, unloaded height 1.76 (44.6) loaded height 1.57 (40) available on special request.
 To order with long cap, add **L** to the end of Catalog Number.

TYPICAL TRANSMISSIBILITY CURVE
 as a function of applied load



INCH/METRIC COMPONENT

Catalog Number 1/4-20 UNC-2B	Catalog Number 1/4-28 UNF-2B	Catalog Number M6	Catalog Number 3/8-24 UNF-2B	Static Load	
				lb.	kgf
A10Z22-7201A	A10Z22-7201B	A10Z22M7201C	-	1.55 - 2.75	0.7 - 1.25
A10Z22-7202A	A10Z22-7202B	A10Z22M7202C	-	2.55 - 5.00	1.15 - 2.3
A10Z22-7203A	A10Z22-7203B	A10Z22M7203C	-	4.40 - 9.90	2 - 4.5
A10Z22-7204A	A10Z22-7204B	A10Z22M7204C	-	6.20 - 12.35	2.8 - 5.6
A10Z22-7205A	A10Z22-7205B	A10Z22M7205C	A10Z22-7205D	9.90 - 19.85	4.5 - 9
A10Z22-7206A	A10Z22-7206B	A10Z22M7206C	-	15.40 - 30.85	7 - 14
A10Z22-7207A	A10Z22-7207B	A10Z22M7207C	A10Z22-7207D	17.65 - 39.70	8 - 18
A10Z22-7209A	A10Z22-7209B	A10Z22M7209C	-	35.30 - 48.50	16 - 22
A10Z22-7210A	A10Z22-7210B	A10Z22M7210C	A10Z22-7210D	44.10 - 72.75	20 - 33
A10Z22-7211A	A10Z22-7211B	A10Z22M7211C	A10Z22-7211D	72.75 - 132.30	33 - 60
A10Z22-7212A	A10Z22-7212B	A10Z22M7212C	A10Z22-7212D	132.28 - 242.51	60 - 110

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INCH OR METRIC THREADS
 FOR LOADS OF 77 TO 1598 POUNDS (35 TO 725 kgf)
 STAINLESS STEEL MESH
 CORROSIVE ENVIRONMENT

PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM



> MATERIAL:

Housing - Machined Casting.
 Center and Cup Washer are
 Zinc Plated and Gold Passivated Mild Steel
Isolators - Stainless Steel Mesh

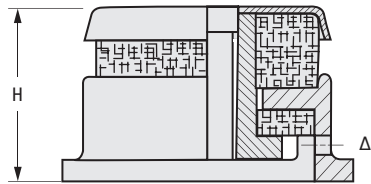
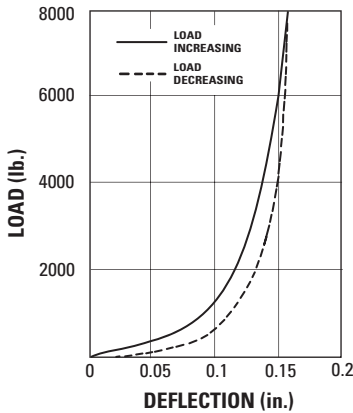
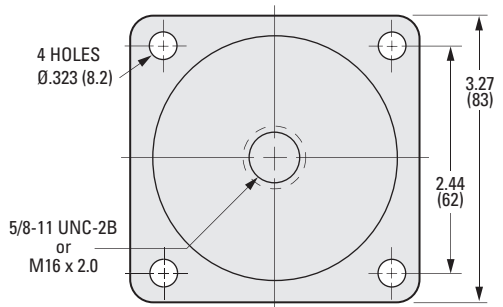
> OPERATING TEMPERATURE:

-94°F to +347°F (-70°C to +175°C)

> APPLICATIONS:

Primarily developed for heavy-duty applications where severe shock forces are encountered, this mounting is especially recommended for vehicle and marine installation where there is high starting torque or a reversal of loads. It is capable of withstanding compression loads as high as ten times the static loads and is used for isolating marine fans, mobile engines, generators, instrument consoles and general machine tools, such as lathes, milling machines, slotters, broachers, etc.

Δ An access hole is provided to be able to pin the center section for assembling the mounting bolt or to remove rusted bolt.



NOTE: Dimensions in () are mm.

INCH COMPONENT	METRIC COMPONENT	Static Load		Natural Frequency Hz	H - Height	
		lb.	kgf		Free	Loaded
Catalog Number 5/8-11 UNC-2B	Catalog Number M16 x 2.0	77 - 396	35 - 180	14 - 22	1-31/32 (50)	1-13/16 (46)
A10Z27-3021A	A10Z27M3021C	308 - 793	140 - 360	14 - 22		
A10Z27-3022A	A10Z27M3022C	606 - 1598	275 - 725	14 - 22		
A10Z27-3023A	A10Z27M3023C					

LEVELING CARRY MOUNTINGS

SDP/SI

FOR LOADS OF 60 TO 100 kgf
 CASTER TYPE
 COMPACT & LIGHTWEIGHT DESIGN
 EXCELLENT STABILITY
 EASY MOVEMENT & SETTING
 LOW PRICE

PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM



> DESCRIPTION:

CARRY MOUNT is a moveable mount in which the rubber mount is incorporated into a caster. They allow movement of machines and give excellent vibration-free installations.

> MATERIAL:

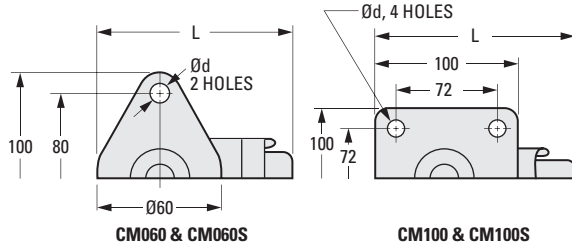
Frame & Bolt - Steel, Galvanized
Wheel - Nylon
Isolator - Oil-Resistant Rubber

> APPLICATIONS:

Shop Machines
 Office Equipment
 Medical Instruments

> INSTALLATION:

Raise machine and attach casters with suitable bolts. Insert screwdriver or 1/4" diameter rod into level adjusting hole and turn it to the left (clockwise) to lift the rubber mount. Machine can now be easily moved. Once relocated, level adjusting hole is rotated counterclockwise to lift the wheel. The machine is then positioned in place.

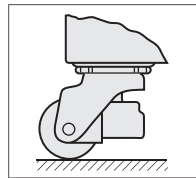
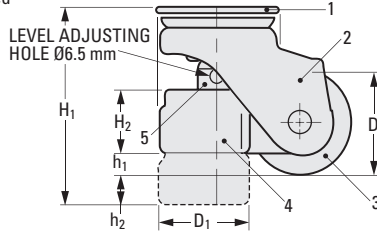


CM060 & CM060S

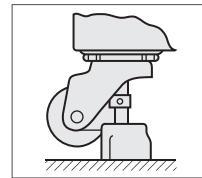
CM100 & CM100S

MOUNTING HOLES

1. MOUNTING PLATE
2. FRAME
3. WHEEL
4. RUBBER MOUNT
5. LEVELING BOLT & ADJUSTING NUT



CASTER IN ROLLING POSITION



MACHINE LEVELED RUBBER MOUNT EXTENDED

METRIC COMPONENT

Catalog Number	Working Load Max. kgf	H ₁	H ₂	D	D ₁	h ₁	h ₂	d Dia.	L
A10Z43MCM060	60	80	30	50	57	13	15	8.8	95
A10Z43MCM060S	60	70	8.9	50	34	10	16	8.8	96
A10Z43MCM100	100	120	46	75	76	25	17	11	143
A10Z43MCM100S	100	84	8.9	60	34	15	15	11	126

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LEVELING CARRY MOUNTINGS



FOR LOADS OF 200 TO 600 kgf
 BALL TYPE
 COMPACT & LIGHTWEIGHT DESIGN
 EXCELLENT STABILITY
 EASY MOVEMENT & SETTING
 LOW PRICE

PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM



> DESCRIPTION:

CARRY MOUNT is a moveable mount in which the rubber mount is incorporated with a rotating ball. They allow movement of machines and give excellent vibration-free installations.

> MATERIAL:

- Spoked Wheel** - Steel, Painted
- Bolt** - Steel, Zinc Plated
- Housing** - Iron, Galvanized
- Ball** - Steel
- Isolator** - Oil-Resistant Rubber

> APPLICATIONS:

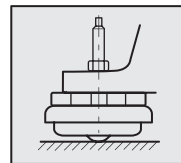
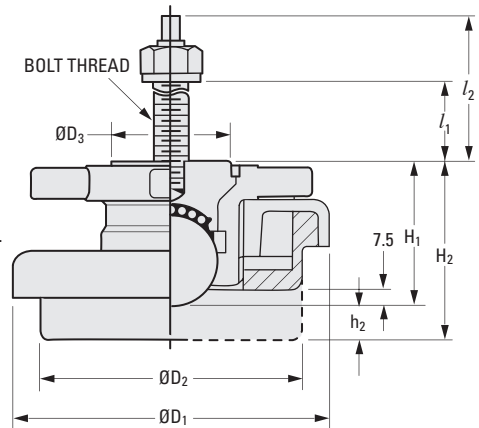
- Shop Machines
- Office Equipment
- Medical Instruments

> INSTALLATION:

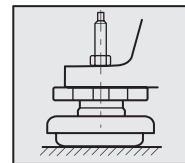
Place the CARRY MOUNT under the bolt hole of the machine. Insert the bolt into the screw hole of the CARRY MOUNT and screw it in until the bolt stops.

Turn the spoked wheel clockwise to lift the rubber mount. The steel ball then allows free movement.

Turn the spoked wheel counterclockwise to lift the steel ball. The rubber mount now supports the machine in place.



MOUNT IN ROLLING POSITION



MACHINE LEVELED RUBBER PAD EXTENDED

METRIC COMPONENT

Catalog Number	Working Load Max. kgf	H ₁	H ₂	D ₁ Dia. ± 2	D ₂ Dia.	D ₃ Dia.	l ₁	l ₂	h ₂	Bolt Thread
A10Z44MCM200	200	58	70	100	80	44	67	92	12	M12
A10Z44MCM600	600	65	79	140	120	54	72	102	14	M14