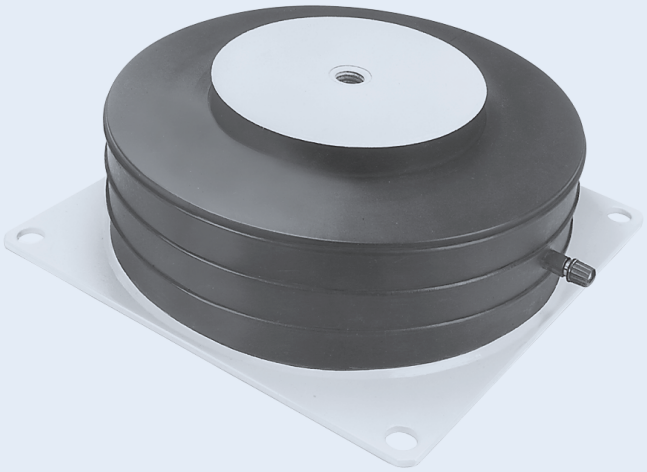
SLM MOUNT SERIES

Low-profile, high capacity mounts for vibration and shock protection.

APPLICATIONS

- Industrial equipment, tools and machinery
- CMM machinery
- Forging hammers
- Air compressors



Barry SLM Series Mounts are pneumatic elastomeric mounts, ideal for applications requiring higher deflection isolators. The SLM's mechanical bond design incorporates a positive locking system to ensure performance and safe operation.

FEATURES

- Air spring isolator with integral heavy wall construction
- Deflection transfers shock to outer wall
- Will not bottom out
- Continued support & isolation even with no air pressure

BENEFITS

- Combined resiliency and air prevents high static deflection, drift or permanent set
- Extends machinery life
- Wide load range available
- Low maintenance

LOAD RANGE

- 8 load ratings up to 19,200 lbs. per isolator

Specifications

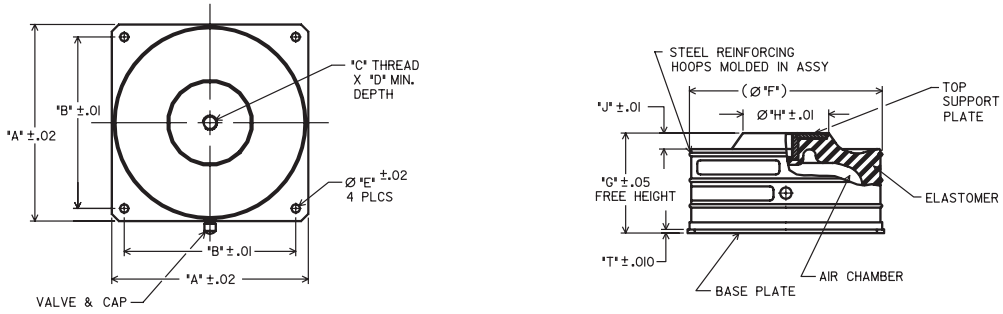
• Natural Frequency	3-5 Hertz (10 Hz. unpressurized)
• Transmissibility at resonance	8:1
• Resilient Element	Air and neoprene diaphragm
• Standard Materials	Steel and aluminum
• Weight	See table

Environmental Data

- Neoprene elastomer has an operating temperature range of -20°F to +180°F (-30°C to +82°C) and is resistant to oils, most solvents and ozone.

Dimensions & Load Ranges

SLM SERIES
Dimensional Drawing



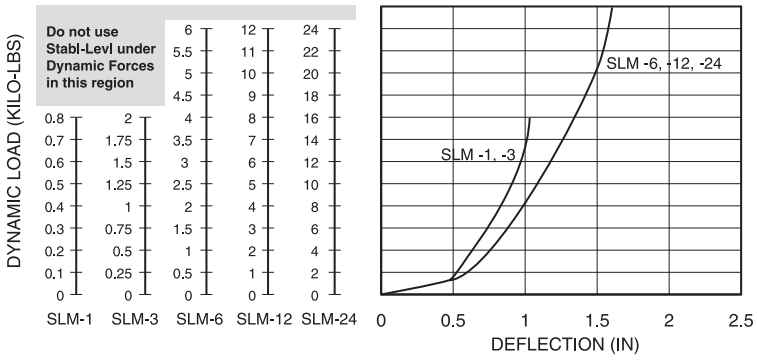
Valve external thread 302-32 2A

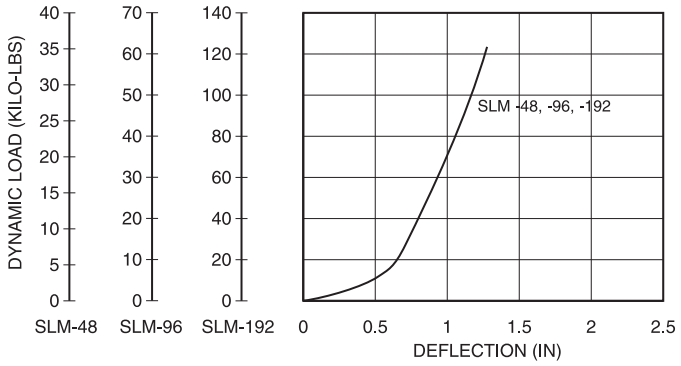
TYPE NO.	MAX. LOAD LBS.	MAX. PRESSURE PSIG	DIMENSIONS										WT. (LBS.)
			"A"	"B"	"C"	"D"	"E"	("F")	"G"	"H"	"J"	"T"	
SLM-1A	100	60	3.00	2.38	.375-16 UNC-2B	.47	.28	2.88	2.50	1.00	.50	.125	1
SLM-3A	300	60	4.19	3.50	.500-13 UNC-2B	.53	.28	4.14	2.45	2.06	.54	.125	1.5
SLM-6A	600	80	5.12	4.25	.500-13 UNC-2B	.53	.29	4.99	3.50	2.38	.56	.125	3.25
SLM-12A	1200	80	6.88	6.00	.500-13 UNC-2B	.53	.29	6.74	3.50	3.75	.56	.125	5.5
SLM-24A	2400	80	10.00	8.50	.625-11 UNC-2B	.75	.56	9.66	3.50	4.75	.56	.188	13
SLM-48A	4800	80	13.50	12.00	.625-11 UNC-2B	.75	.56	13.31	3.50	7.50	.56	.188	26
SLM-96A	9600	80	18.50	16.00	1.000-14 UNS-2B	.88	.81	18.44	3.50	11.60	.56	.250	57
SLM-192A	19200	80	24.00	20.00	1.000-14 UNS-2B	.88	.81	24.00	3.50	15.75	.56	.250	100

METRIC LOAD RANGES & DIMENSIONAL DATA												
PART #	LOAD RANGE (kg)	A	B	C	D	E	(F)	G	H	J	T	Wt. (kg)
SLM-M1A	11-45	76.2	60.4	M10	12.0	7.0	73.2	63.5	25.4	12.7	3.2	0.5
SLM-M3A	34-136	106.4	88.9	M12	14.0	7.0	105.2	62.2	52.3	12.7	3.2	0.7
SLM-M6A	68-272	130.0	108.0	M12	14.0	7.0	126.7	88.9	60.5	14.2	3.2	1.5
SLM-M12A	136-545	174.8	152.4	M12	14.0	7.0	171.2	88.9	95.2	14.2	3.2	2.5
SLM-M24A	272-1090	254.0	215.9	M16	19.0	14.2	245.4	88.9	138.2	14.2	4.8	6
SLM-M48A	545-2180	342.9	304.8	M16	19.0	14.2	338.1	88.9	190.5	14.2	4.8	11.8
SLM-M96A	1090-4360	469.9	406.4	M24	22.0	20.6	468.4	88.9	294.6	14.2	6.4	26
SLM-M192A	2180-8720	609.6	508.0	M24	22.0	20.6	609.6	88.9	400.1	14.2	6.4	45.0

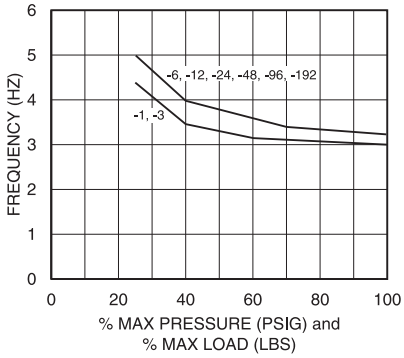
Performance Characteristics

SLM Series Dynamic Load and Approximate Deflections

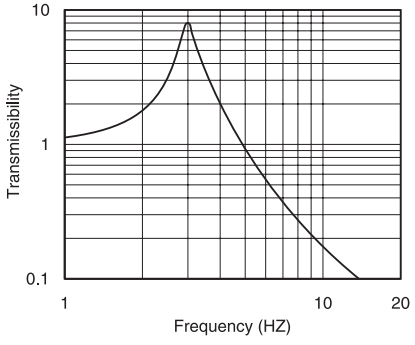




Natural frequency vs. % Max Pressure and % Max Load



Typical Transmissibility



LEVELING MOUNTS

Low-profile, high capacity leveling mounts for vibration and shock protection.

APPLICATIONS

- Punch Presses
- Milling Machines
- Drilling Machines
- Boring Machines
- Die casting machines
- Screw machines
- Injection Molding
- Lathes
- Grinders
- Jig Borers
- Riveters
- Sanders
- Saws
- Shapers

FEATURES

- High level of shock & vibration isolation
- Full inch of elastomer for controlled deflection
- Leveling bolt adjusts height up to a full half inch above load
- Sturdy, reliable construction

BENEFITS

- Economical
- Extends machinery life
- Wide load range available

LOAD RANGE

- 7 sizes with load ratings to 13,000 lbs. per isolator



Barry Leveling Mounts are ideal for protecting heavy industrial equipment and machinery such as CNC machines, punch presses, drill presses, sanders, saws, injection molding and many other types of industrial equipment.

Specifications

• Natural Frequency	12-18 Hertz
• Transmissibility at resonance	8:1
• Resilient Element	LM0-B + LM1-B Neoprene LM3-B through LM9-B Nitrile
• Weight	See load range chart

Environmental Data

- Nitrile and Neoprene elastomers have an operating temperature range of -20°F to +180°F (-30°C to +82°C) and are resistant to oils and most solvents.

Dimensions & Performance Characteristics

LEVELING MOUNT SERIES LOAD RATING & DIMENSIONAL DATA						
Part #	Load Range Rating (lbs.)	Base (Inches)		Bolt (Inches)		Weight
		Outside Dia. (A)	Free Height (B)	Size	Length	
LM0-B	30-100	2	1	.25-28	1.75	4 ozs.
LM1-B	100-300	3.125	1.50	.375-24	3	1 lb. 4 ozs.
LM3-B	300-1,000	4.75	1.50	.50-13	5	2 lbs. 5 ozs.
LM5-B	1,000-4,200	6.312	1.625	.75-10	5	5 lbs. 2 ozs.
LM6-B	4,000-10,000	7.25	1.61	.75-10	5	7 lbs. 6 ozs.
LM7-B	4,000-13,000	9	2.50	1-14	8	12 lbs. 14 ozs.
LM9-B*	4,000-13,000	9	2.25	1-14	8	12 lbs. 11 ozs.

* LM-9B should be substituted for LM-7B in applications with heavy horizontal forces.
For punch press applications between 150-300 SPM, reduce load rating of each mount by 50%. Above 300 SPM, please call Barry Controls applications engineering at 1-800-BARRY-MA.

METRIC LEVELING MOUNT SERIES LOAD RATING & DIMENSIONAL DATA						
Part #	Load Range Rating (lbs.)	Base (Inches)		Bolt (Inches)		Weight
		Outside Dia. (A)	Free Height (B)	Size	Length	
LM0-MB	30-100	2	1	M6-1	30 mm	4 ozs.
LM1-MB	100-300	3.125	1.50	M10-1.5	75 mm	1 lb. 4 ozs.
LM3-MB	300-1,000	4.75	1.50	M12-1.75	127 mm	2 lbs. 5 ozs.
LM5-MB	1,000-4,200	6.312	1.625	M20-2.5	127 mm	5 lbs. 2 ozs.
LM6-MB	4,000-10,000	7.25	1.61	M20-2.5	127 mm	7 lbs. 6 ozs.
LM7-MB	4,000-13,000	9	2.50	M24-3	200 mm	12 lbs. 14 ozs.
LM9-MB*	4,000-13,000	9	2.25	M24-3	200 mm	12 lbs. 11 ozs.

* LM-9B should be substituted for LM-7B in applications with heavy horizontal forces.
For punch press applications between 150-300 SPM, reduce load rating of each mount by 50%. Above 300 SPM, please call Barry Controls applications engineering at 1-800-BARRY-MA.

OPTIONAL BOLTS & BUSHINGS FOR LEVELING MOUNTS:

Ordering Information

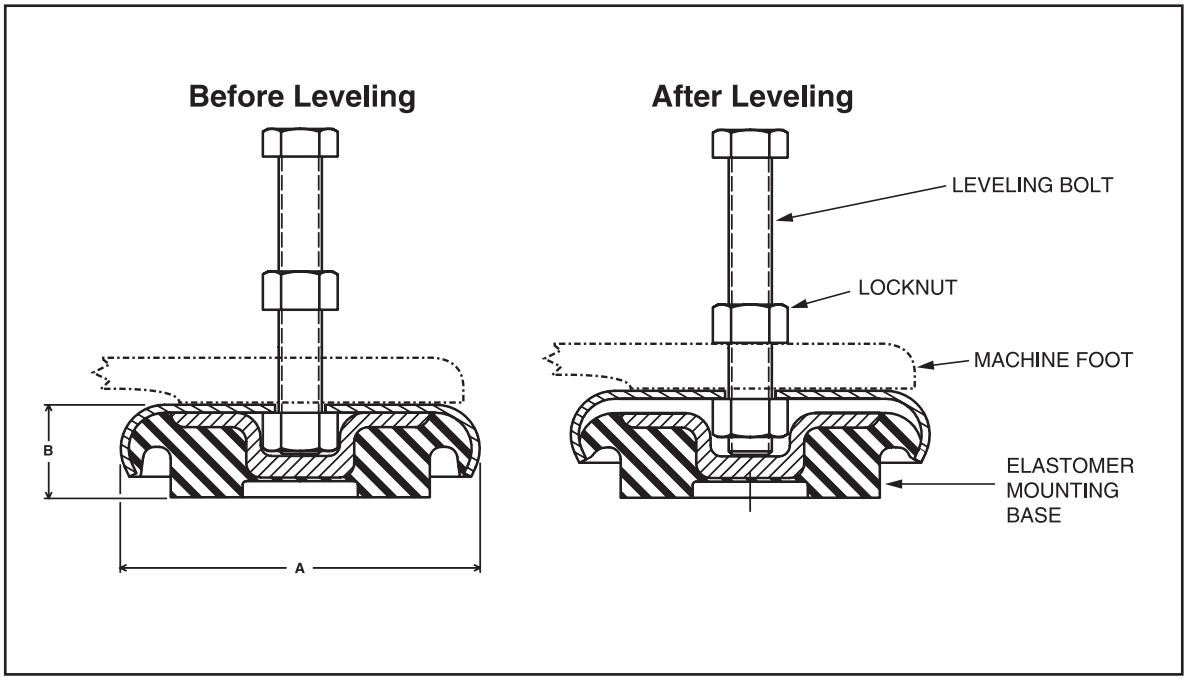
OPTIONAL BOLTS WITH NUTS		
Part#	Comes Standard w/:	Size (in.)
2099-02000/1		3/8-16x5
100551-01000/1	LM3-B	1/2-13x5
2099-12000/1		1/2-13x8
2099-16000/1		1/2-13x10
2099-07000/1		5/8-11x5
2099-10000/1		5/8-11x8
100551-03000/1	LM5-B/LM6-B	3/4-10x5
2099-11000/1		3/4-10x8
2099-09000/1		3/4-10x10
100551-19000/1		1-14x5
100551-16000/1	LM7-B/LM9-B	1-14x8
2099-29000/1	LM0-B	1/4-28x1-3/4
2099-30000/1	LM1-B	3/8-24x3

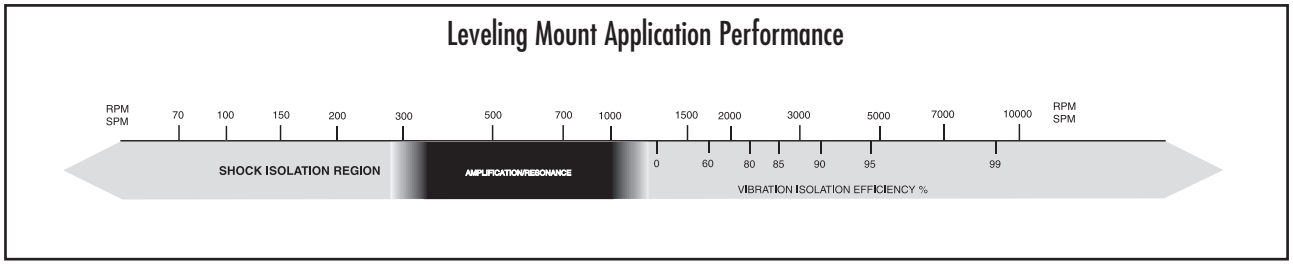
OPTIONAL BUSHINGS FOR MOUNTS:		
Part#	Designed for Mount:	Size (in.)
101056-01801	LM5-B/LM6-B	3/4-10 to 3/8-16
101056-02801	LM5-B/LM6-B	3/4-10 to 1/2-13
101965-03801	LM7-B/LM-9B	1-14 to 1/2-13
101965-02801	LM7-B/LM-9B	1-14 to 5/8-11
108123-03801	LM7-B/LM-9B	1-14 to 3/4-10

METRIC BOLTS & BUSHINGS FOR LEVELING MOUNTS:

Ordering Information

METRIC BOLTS w/NUTS		
Part#	Designed for Mount:	Size (in.)
2099-39000/1	LM0-MB	M6-1 x 1.181 (30 mm)
2099-40000/1	LM1-MB	M10-1.5 x 2.953 (75 mm)
2099-44000/1	LM3-MB	M12-1.75 x 5 (127 mm)
2099-43000/1	LM5-MB/LM6-MB	M20-2.5 x 5 (127 mm)
2099-41000/1	LM7-MB/LM9-MB	M24-3.0 x 7.874 (200 mm)





LMS MOUNT SERIES

Attenuated levelers designed for leveling and aligning sensitive electronic manufacturing equipment

APPLICATIONS

- Semiconductor equipment
- Electronic manufacturing equipment
- Industrial machinery



LMS attenuated levelers are designed for leveling, aligning and isolating sensitive electronic manufacturing equipment. LMS Series levelers feature over .5" of neoprene elastomer bonded to the bottom of the leveler to provide shock-attenuated, non-skid support.

FEATURES

- Neoprene elastomer bonded to steel construction
- Corrosion resistant exposed metal parts
- Proven durability
- ANSI and metric steel threads

BENEFITS

- Non skid elastomer
- Protects floor or surface finish
- Extends machinery life
- 1/2" of elastomer for controlled deflection and attenuation

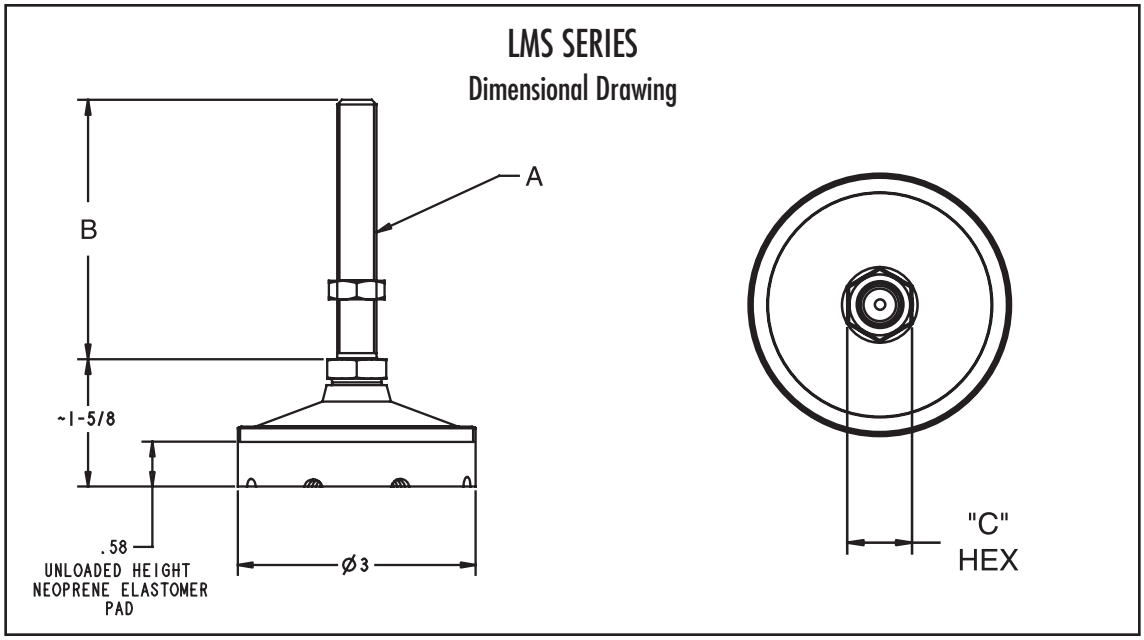
Specifications

• Natural Frequency	10-20 Hertz
• Transmissibility at resonance	8:1
• Resilient Element	Neoprene
• Standard Materials	Black Corrosion Resistant Steel
• Elastomer Color	Black

Environmental Data

- Neoprene elastomer has an operating temperature range of -20°F to +180°F (-30°C to +82°C) and is resistant to oils, most solvents and ozone.

Dimensions & Performance Characteristics



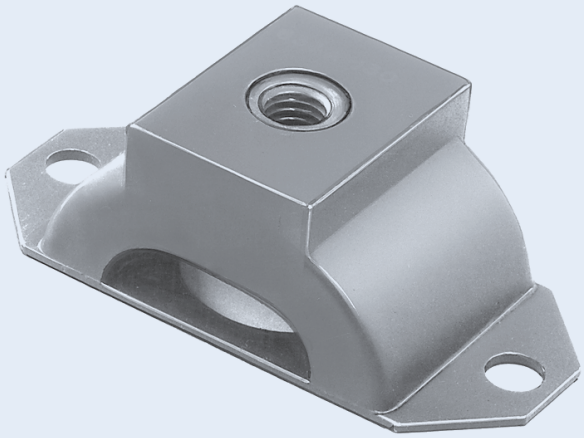
LMS MOUNT SERIES LOAD RATING & DIMENSIONAL DATA					
Part #	Load Range Rating (lbs.)	Thread Units	"A"	"B"	"C"
LMS-12042	100-400	INCH	.500-13 UNC 2B	2"	.750"
LMS-12044	100-400			4"	
LMS-12082	200-800			2"	
LMS-12084	200-800			4"	
LMS-12122	400-1200			2"	
LMS-12124	400-1200			4"	
LMS-M112042	100-400	METRIC	M12 x 1.75	51 mm	19 mm
LMS-M112043	100-400			84 mm	
LMS-M112082	200-800			51 mm	
LMS-M112083	200-800			84 mm	
LMS-M112122	400-1200			51 mm	
LMS-M112123	400-1200			84 mm	

633A MOUNT SERIES

Low-profile, low frequency elastomeric noise and vibration isolators for medium weight industrial equipment.

APPLICATIONS

- Industrial equipment, tools and machinery
- Generators
- Pumps & blowers
- HVAC equipment
- Chillers



Barry 633A Series Mounts are medium weight mounts normally used for vertically applied loads to prevent transmission of noise and vibration caused by rotation of imbalanced equipment (i.e. generators, blowers, pumps, etc...)

FEATURES

- Effectively isolate disturbing frequencies as low as 900 rpm (15 Hz)
- Cold-rolled steel construction
- Optional stainless steel version available upon request for highly corrosive and marine applications
- Elastomer in shear design
- Compressive to shear stiffness of 2.5:1

BENEFITS

- Effectively interrupts noise transmission paths to prevent sounding board amplification
- Extends machinery life
- Resistant to oils, most solvents and ozone
- Provides up to 90% isolation efficiency at 1,500 rpm (25 Hz)

LOAD RANGE

- 5 load ratings up to 260 lbs. per mount

Specifications

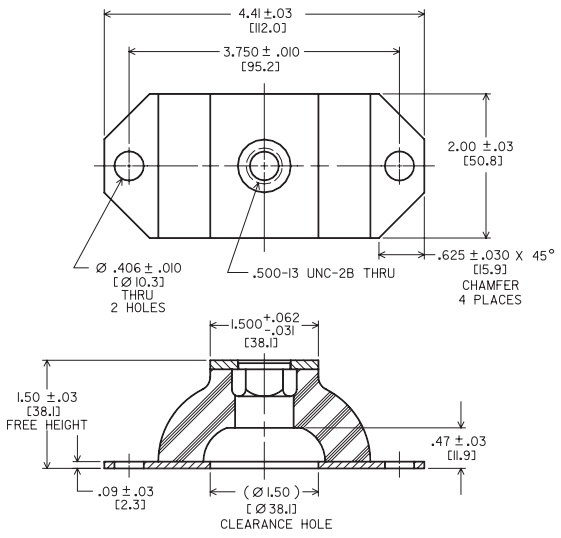
• Natural Frequency	8 Hertz
• Transmissibility at resonance	8:1
• Resilient Element	Neoprene
• Standard Materials	Cold Rolled Steel or Stainless Steel
• Weight	633A-60 through 130 = 7 oz. 633A-200 and 260 = 16 oz.

Environmental Data

- Neoprene elastomer has an operating temperature range of -20°F to +180°F (-30°C to +82°C) and is resistant to oils, most solvents and ozone.
- Stainless Steel version is corrosion resistant for marine applications.

Dimensions & Performance Characteristics

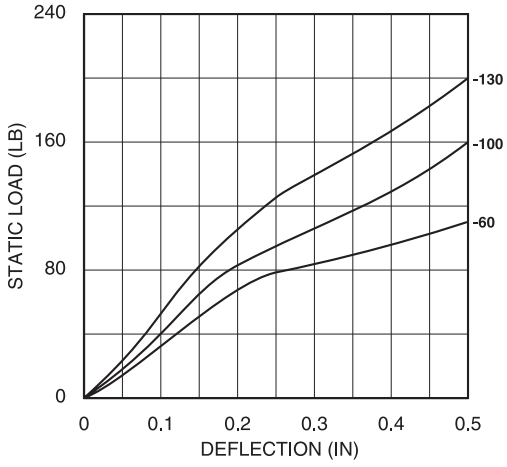
633A-60 through 633A-130 SERIES
Dimensional Drawing



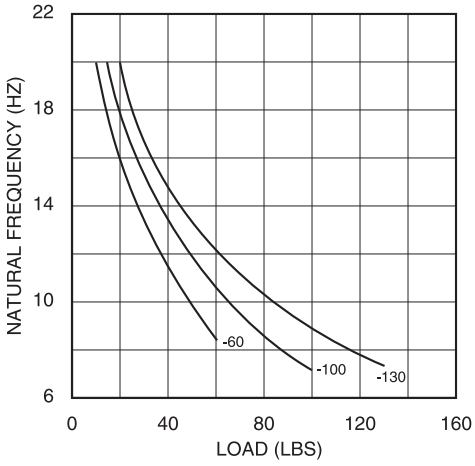
633A SERIES LOAD RANGES	
Part #	Maximum Static Load/Isolator (lbs.)
633A-60	60
633A-100	100
633A-130	130

NOTE: For stainless steel applications please add "SS" to part number. Example: For Stainless Steel 633A-60 order as part number 633A-SS60

633A-60 through 633A-130
Load vs. Deflection

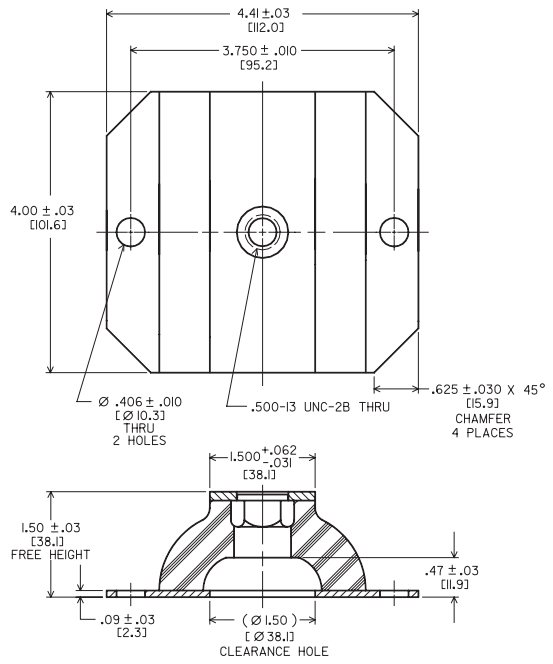


633A-60 through 633A-130
Frequency vs. Load



Dimensions & Performance Characteristics

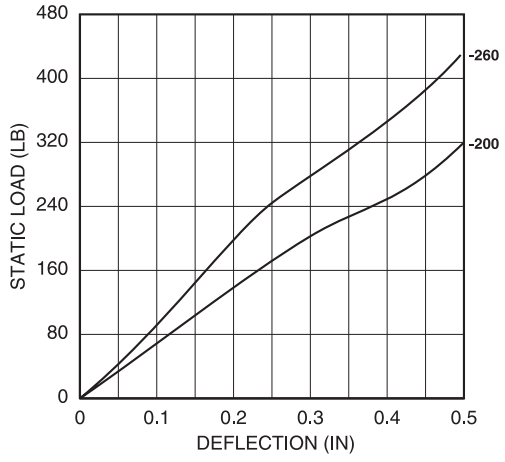
633A-200 through 633A-260 SERIES
Dimensional Drawing



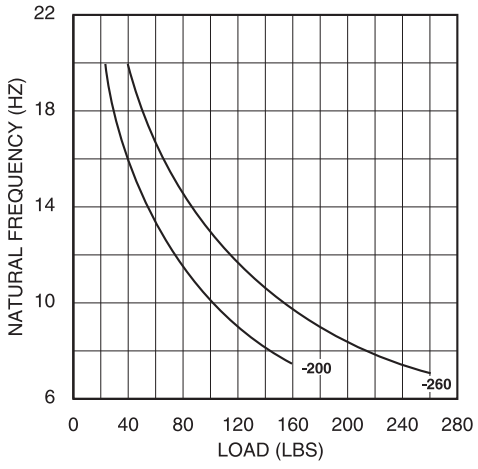
633A SERIES LOAD RANGES	
Part #	Maximum Static Load/Isolator (lbs.)
633A-200	200
633A-260	260

NOTE: For stainless steel applications please add "SS" to part number. Example: For Stainless Steel 633A-200 order as part number 633A-SS200

633A-200 through 633A-260 Load vs Deflection



633A-200 through 633A-260 Frequency vs. Load

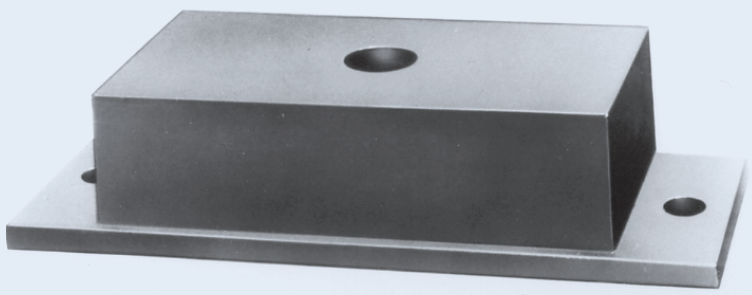


INDUSTRIAL MACHINERY MOUNT SERIES

Low-frequency elastomeric compression mounts for industrial machinery.

APPLICATIONS

- Heavy industrial equipment, machinery and tools
- Motors, pumps and generators



Barry Industrial Machinery Mounts are for use under heavy industrial machinery for shock, vibration and/or structure borne noise control. Barry Machinery Mounts provide efficient isolation for machine speeds as low as 750 rpm.

FEATURES

- Ideal for heavy industrial machinery
- For all types of industrial machinery
- Cold-rolled steel construction
- Provides efficient isolation for speeds as low as 750 rpm
- Compressive to shear stiffness of 5:1

BENEFITS

- Protects industrial equipment from damage caused by extended shock, noise and vibration exposure
- Extends machinery life
- Wide load range available
- Low maintenance
- Resistant to oils, most solvents and ozone

LOAD RANGE

- 670 Series = 3 ratings to 1,500 lbs. per mount
- 297 Series = 4 ratings to 4,400 lbs. per mount

Specifications

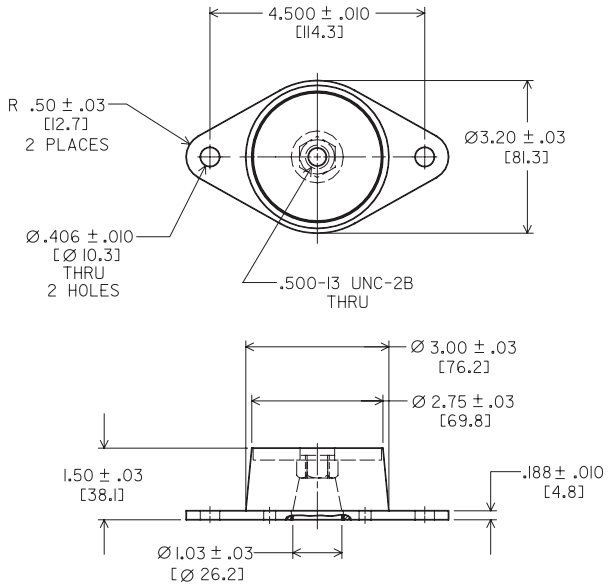
• Natural Frequency	8-18 Hertz
• Transmissibility at resonance	8:1
• Resilient Element	Neoprene
• Standard Materials	Cold rolled steel
• Weight	Series 661 = 2 lbs. Series 670 = 2 lbs. Series 297 = 3 lbs.

Environmental Data

- Neoprene elastomer has an operating temperature range of -20°F to +180°F (-30°C to +82°C) and is resistant to oils, most solvents and ozone.

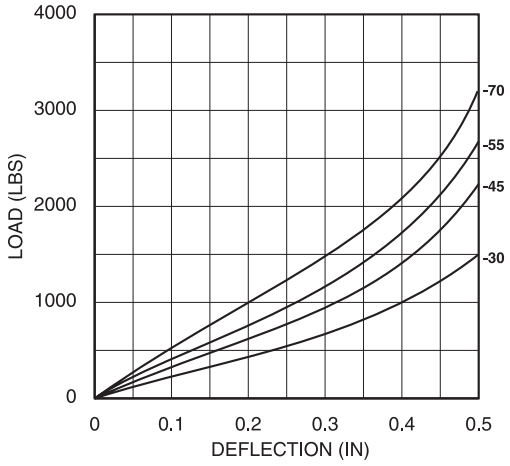
Dimensions & Performance Characteristics

661 SERIES
Dimensional Drawing

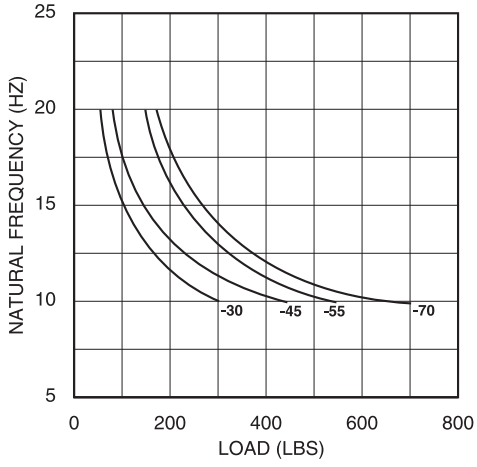


661 SERIES LOAD RANGE DATA	
Part #	Maximum Static Load/Isolator (lbs.)
661-30	300
661-45	450
661-55	550
661-70	700

661 Series
Load vs. Deflection

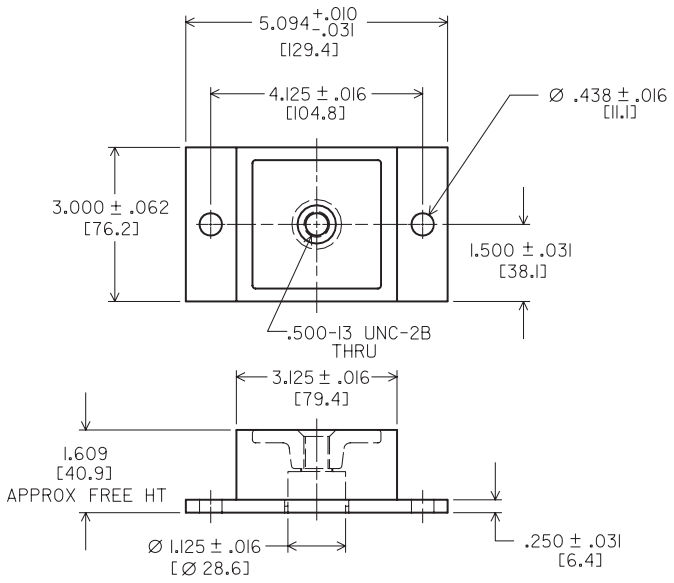


661 Series
Frequency vs. Load



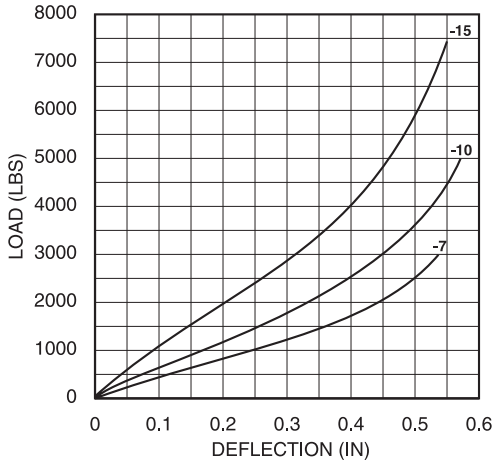
Dimensions & Performance Characteristics

670 SERIES
Dimensional Drawing

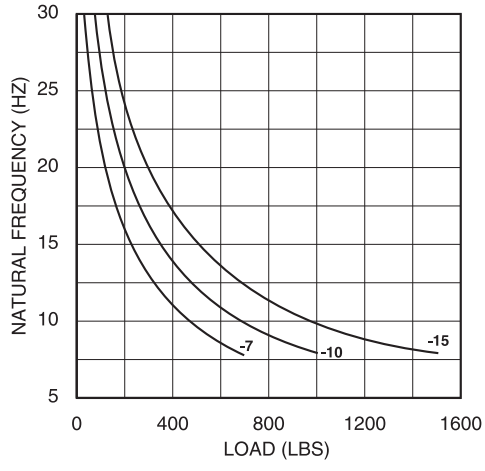


670 SERIES LOAD RANGE DATA	
Part #	Maximum Static Load/Isolator (lbs.)
670-7	700
670-10	1,000
670-15	1,500

670 Series
Load vs Deflection

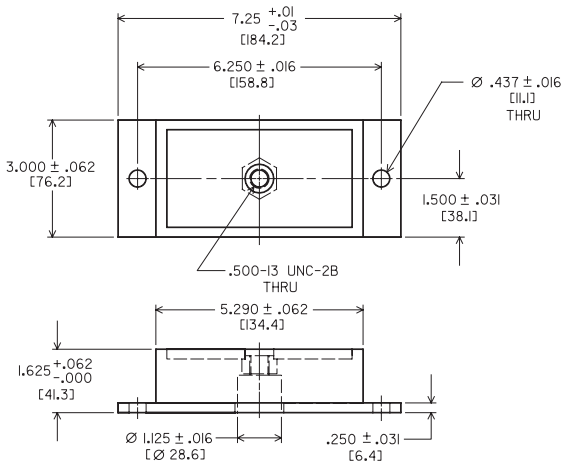


670 Series
Frequency vs. Load



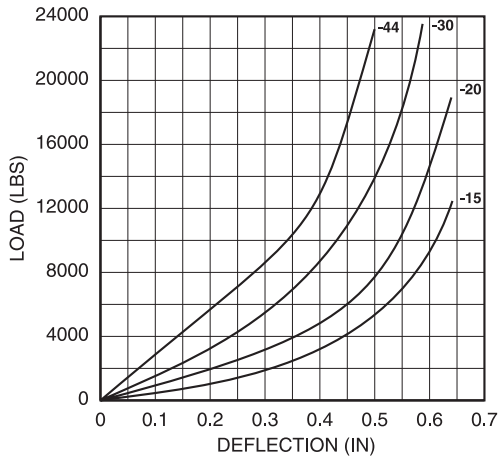
Dimensions & Performance Characteristics

297 SERIES
Dimensional Drawing

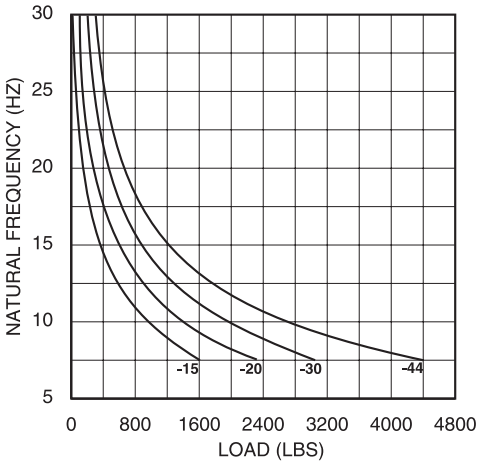


297 SERIES LOAD RANGE DATA	
Part #	Maximum Static Load/Isolator (lbs.)
297-15	1,500
297-20	2,000
297-30	3,000
297-44	4,400

297 Series
Load vs Deflection



297 Series
Frequency vs. Load

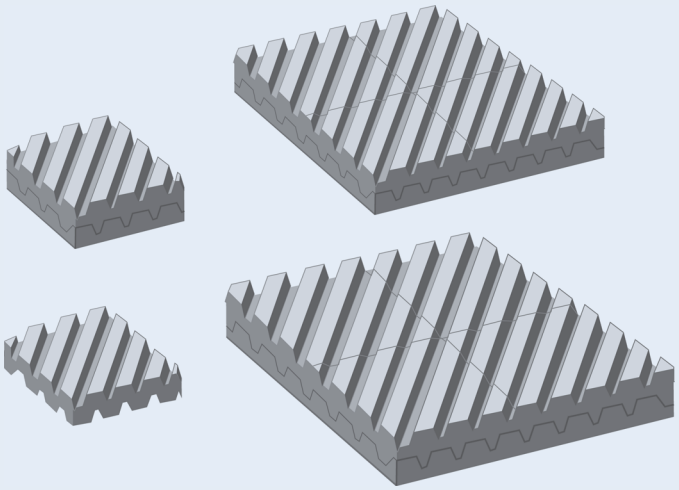


30005 SERIES NEOPRENE PADS

An economical solution to general shock, vibration and noise problems in a variety of applications

APPLICATIONS

- Drill Presses
- Microscopes
- Printing Equipment
- Riveters
- Sanders and Saws
- Work Benches



Barry Neoprene Pads are designed for use as a general purpose shock, vibration and noise attenuator or where the advantages of elastomeric characteristics are required but a specific type of isolator has not been called out.

FEATURES

- Ideal for a wide range of industrial applications
- No tools, bolting or adhesives required for installation
- Neoprene isolator
- Pads can be easily cut to smaller sizes
- US Navy approved for Distributed Isolation Materials in construction of ships & submarines

BENEFITS

- Protects industrial equipment from damage caused by extended shock, noise and vibration exposure
- Easily installed or relocated
- Can be used in a broad range of applications where moderate shock, vibration and noise reduction is required
- Low maintenance
- Resistant to oils, most solvents and ozone

LOAD RANGE

- Provides drift resistance up to 50 psi

Specifications

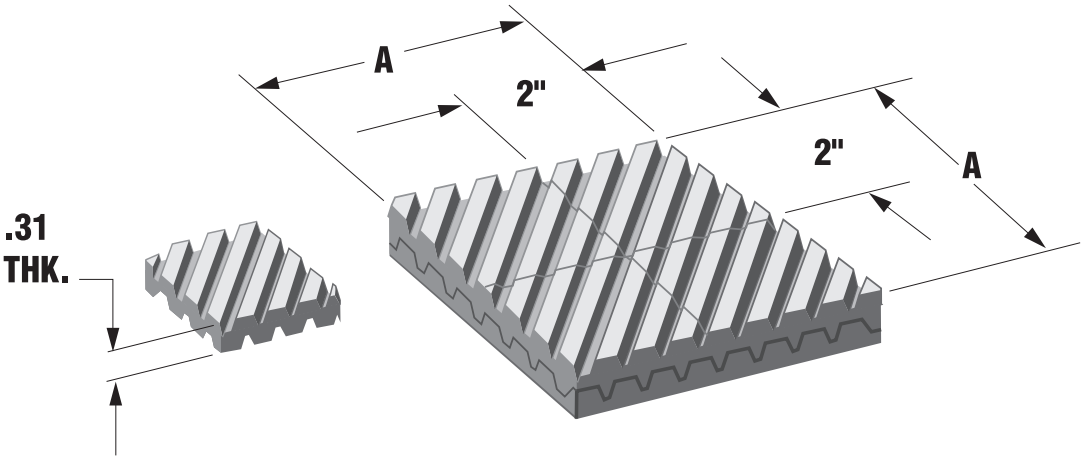
• Natural Frequency	20-35 Hertz
• Transmissibility at resonance	8:1
• Resilient Element	Neoprene
• Standard Materials	Neoprene
• Weight	4" x 4" square = 2 oz.

Environmental Data

- Neoprene elastomer has an operating temperature range of -20°F to +180°F (-30°C to +82°C) and is resistant to oils, most solvents, salt spray and ozone.

Dimensions & Performance Characteristics

NEOPRENE PAD SERIES
Dimensional Drawing



PART #	"A" (Inches)	Description	Loading
30005-4	4	One 4" x 4" square pad	50 psi Nested 25 psi Crossed
30005-12	12	One 12" x 12" square pad	
30005-1	24	One 24" x 24" square pad	

ELASTOMER SPRING SERIES

Low cost, compact, all elastomer mounts for vibration and noise control.

APPLICATIONS

- Punching Dies
- Stamping Dies
- Drawing Dies

FEATURES

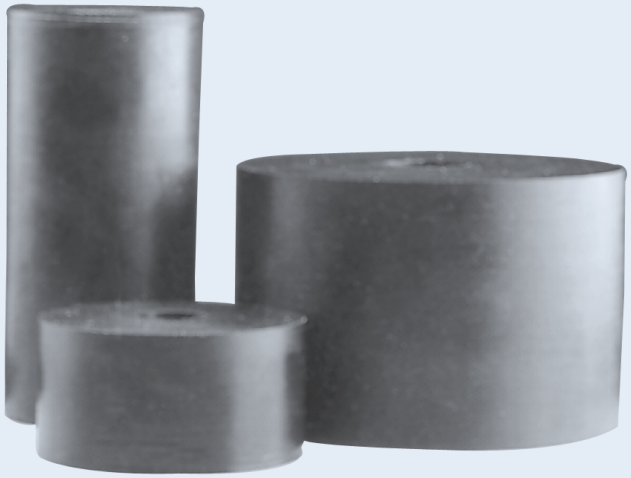
- All elastomer isolators
- Very slight pressure set
- Minimal wear through abrasion
- Excellent resistance to oil and ozone
- Stackable

BENEFITS

- Quieter and safer operation than steel
- Eliminates die damage caused by shattered springs
- Longer stroke at same load

LOAD RANGE

- Load range up to 15,000 lbs.



When compared to other types of springs, Barry Elastomer Springs have proven to be the safest, most efficient and reliable compression material for punching, stamping and drawing dies. Elastomer Springs can be used in other applications requiring exceptionally high energy storage in a small area.

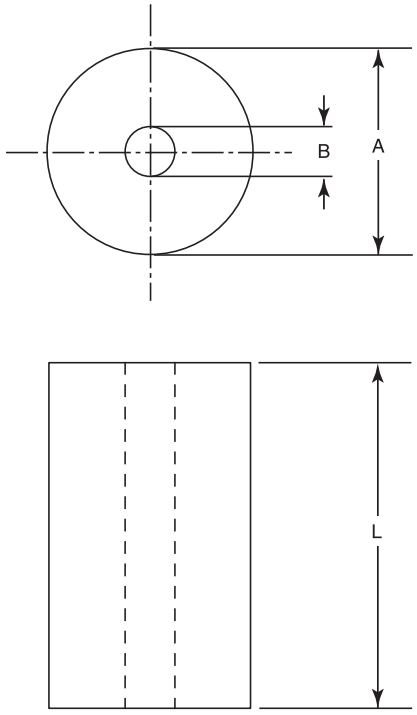
Since Barry Controls introduced elastomer springs, a steadily increasing number of metal fabricators in the aircraft, automobile, appliance and electronics industries are making use of their specific advantages which are: higher loads, increased durability, better performance, freedom from maintenance and a very long life.

Environmental Data

- Neoprene elastomer has an operating temperature range of -20°F to +180°F (-30°C to +82°C) and is resistant to oils, most solvents, salt spray and ozone.

Dimensions & Load Range Data

ELASTOMER SPRING SERIES
Dimensional Drawing



Part Number	A	B	L	R	D	T
ES-3500	.63″	.25″	15/32″	436	.17″	72
ES-3501			5/8″	353	.22″	77
ES-3502			25/32″	292	.27″	80
ES-3503			1″	236	.34″	83
ES-3510	.787″	.33″	5/8″	610	.22″	133
ES-3511			25/32″	482	.28″	132
ES-3512			1″	381	.35″	133
ES-3513			1.25″	287	.44″	126
ES-3520	1.00″	.41″	25/32″	787	.28″	215
ES-3521			1″	598	.35″	209
ES-3522			1.25″	524	.44″	229
ES-3523			1.562″	440	.55″	241
ES-3530	1.25″	.53″	1.25″	1031	.44″	451
ES-3531			1.578″	828	.55″	471
ES-3532			1.969″	651	.69″	456
ES-3533			2.50″	517	.87″	452
ES-3540	1.56″	.53″	1.25″	1790	.44″	783
ES-3541			1.578″	1434	.55″	816
ES-3542			1.969″	1148	.69″	804
ES-3543			2.50″	931	.87″	815
ES-3544			3.156	744	1.10″	830
ES-3550	2.00″	.66″	1.25″	2959	.44″	1295
ES-3551			1.578″	2411	.55″	1371
ES-3552			1.969″	1852	.69″	1296
ES-3553			2.50″	1482	.87″	1297
ES-3554			3.156″	1192	1.10″	1330
ES-3555			3.937″	950	1.38″	1330
ES-3560	2.50″	.66″	1.25″	4565	.44″	1997
ES-3561			1.578″	3650	.55″	2076
ES-3562			1.969″	2830	.69″	1981
ES-3563			2.50″	2286	.87″	2000
ES-3564			3.156″	1809	1.10″	2018
ES-3565			3.937″	1468	1.38″	2055
ES-3566			4.922″	1375	1.72″	2406
ES-3570	3.15″	.83″	1.25″	9088	.44″	3926
ES-3571			1.578″	7038	.55″	4003
ES-3572			1.969″	5768	.69″	4038
ES-3573			2.50″	4572	.87″	4000
ES-3574			3.156″	3485	1.10″	3889
ES-3575			3.937″	2567	1.38″	3594
ES-3576			4.922″	2010	1.72″	3518
ES-3580	3.94″	.83″	1.25″	15216	.44″	6657
ES-3581			1.578″	10427	.55″	5930
ES-3582			1.969″	8466	.69″	5926
ES-3583			2.50″	6435	.87″	5631
ES-3584			3.156″	4648	1.10″	5186
ES-3585			3.937″	3440	1.38″	4816
ES-3586			4.922″	2540	1.72″	4445
ES-3590	4.92″	1.06″	1.25″	33815	.44″	14794
ES-3591			1.578″	22810	.55″	12973
ES-3592			1.969″	14817	.69″	10372
ES-3593			2.50″	10584	.87″	9261
ES-3594			3.156″	7138	1.10″	7965
ES-3595			3.937″	5680	1.38″	7952
ES-3596			4.922″	4022	1.72″	7039
ES-3597			6.312	3102	2.21″	6853

R = Spring Rate, lbs./inch deflection +/- 20%

D = Maximum recommended deflection -35%L

T = Approximate total load at maximum deflection +/- 20%

Dimensions and data are subject to change without notice.

For technical, design, or application assistance, call toll free:

1-800-BARRY MA

990/915 MOUNT SERIES

Low-frequency, captive, industrial-type mounts
for vibration and structure-borne noise isolation

APPLICATIONS

- Phonographic Equipment
- Light motors (Fractional HP)
- Scales
- Cameras
- Optical Equipment
- Vacuum Pumps





990 and 915 mounts are for applications under light to medium weight industrial machinery requiring noise, shock and vibration isolation and are ideal for applications where structure-borne noise and sounding board effects must be minimized.

FEATURES

- Captive, fail-safe design
- Natural rubber elements
- Meet MIL standards
- Eyelet reinforced mounting holes

BENEFITS

- Reduce installation costs
- No special foundations required
- Isolate shock & vibration and reduce structure-borne noise
- Minimize sounding board effects
- Reduce maintenance costs

LOAD RANGE

- 990 = 7 sizes with load ratings from 1.8 - 30 lbs. per isolator
- 915 = 6 sizes with load ratings from 15 - 200 lbs. per isolator

Specifications

• Natural Frequency	10 Hertz
• Transmissibility at resonance	8:1
• Resilient Element	Natural Rubber (Standard)
• Standard Materials	Zinc-Plated Cold Rolled Steel
• Weight	5.3 oz.

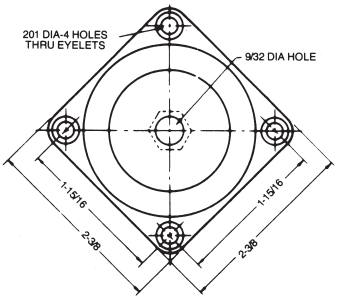
Environmental Data

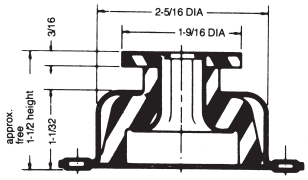
- Natural Rubber elastomer has an operating temperature range of -40°F to +180°F (-40°C to +82°C). Optional Neoprene elastomer is available for resistance to ozone and/or oil environments and has an operating temperature range of -20°F to +180°F (-30°C to +82°C).

990/915 MOUNT SERIES:

Dimensions & Load Ranges

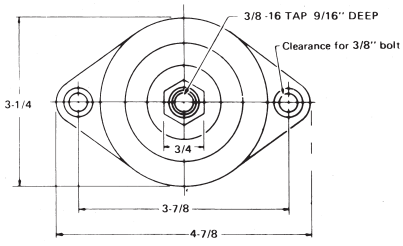
990 MOUNTS
Dimensional Drawing

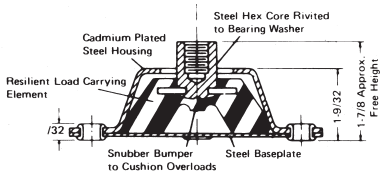




990 MOUNTS LOAD RATINGS	
Part #	Load Range - lbs.
990-3	1.8 - 3
990-5	3 - 5
990-7	4.5 - 7
990-10	5 - 10
990-15	8 - 15
990-20	12 - 20
990-30	19 - 30

915 MOUNTS
Dimensional Drawing





915 MOUNTS LOAD RATINGS	
Part #	Load Range - lbs.
915-25	15 - 25
915-40	25 - 40
915-60	35 - 60
915-90	50 - 90
915-150	70 - 150
915-200	120 - 200

990/915 Series Mounts Application Performance

