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Welcome to AVMR's Product Brochure

(please note, we have many more products that those in this catalogue, which is a work in progress)

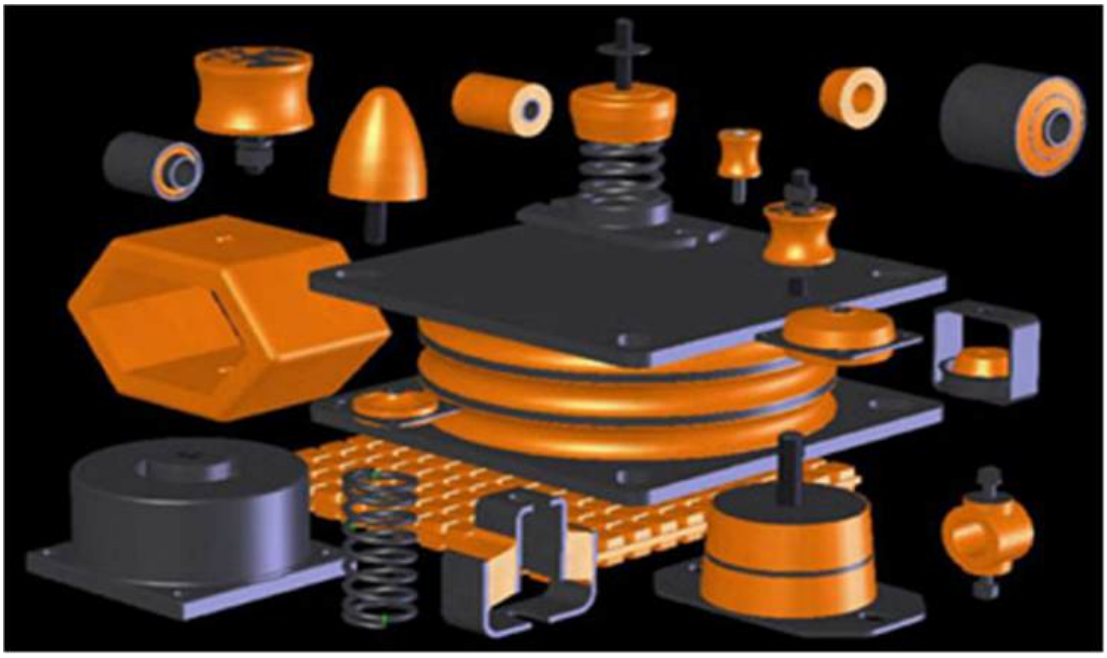
2024 v4

AVMR are specialists in:

- Bonded and Unbonded Rubber products.
- Design & Manufacture Standard and Bespoke Anti-Vibration and Shock mountings
- Manufacture of Seals
- Manufacture of high friction and wear resistant pads for tracked applications

We offer:

- Problem identification: Vibration and Shock management expertise
- Solutions: A one-stop-shop solution for customer product requirements
- From prototyping to volume manufacturing
- Sub-contract manufacturing of rubber moulded products



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Our Product Ranges

AVMR's Premium Products

AVMR's Premium Products are manufactured in the UK by AVMR (Anti Vibration Methods). We can vary these products for bespoke requirements, and typically use tighter tolerance and controlled rubber compounds than other known products on the market.

Deflection graphs are available for these products upon request.

AVMR's Defence Range

AVMR's Defence Range are manufactured by our sister company; they can only be purchased through AVMR. These products have been approved for use by the Defence Industry and most have relevant approvals.

Deflection graphs are available for these products upon request.

This range is described as "Defence" but it is used in a wide range of industries.

AVMR's Standard Products

AVMR's Standard products are manufactured by European organisations we know well. We have visited and inspected their production facilities and we have strong working relationships with them. We quality check their products and conduct our own tests them. We often see wide tolerances on spring rates for these products, so would not typically recommend them for critical applications as this can make a significant difference when it comes to isolation levels.

We provide these products as they help fill gaps in product ranges we offer. They can also provide a more cost-effective option where suitable.

Deflection graphs are not available for these products.

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AVMR Anti Vibration Methods

Products Overview

Wire Rope Mounts: Probably one of the most effective inactive mounting options, these can absorb both shock and vibration while damping – plus they are inherently failsafe. *(Pages 7 – 17)*

Bobbins: The most widely used vibration and shock mount. These come with male and female threads. *(Pages 18 – 39)*

Pedestal Mounts: Used for vibration and shock needs. The base plates are typically bolted to the ground while the vibrating equipment is bolted to the top via a male or female thread. *(Pages 50 – 72)*

Bump Stops & Buffers: Generally used to prevent a shock event from causing damage, or as an alternative to Feet. Come with threaded fixtures or plates to be bolted in place. *(Pages 40 – 49)*

Shear Cap Pedestal Mounts: Similar to pedestal mounts but the rubber is worked in shear to as to offer improved isolation and/or a lower profile. Popular in marine applications. *(Pages 73 – 77)*

Feet: Normally height adjustable fo levelling, these typically support machinery with low vibration challenges *(Pages 78 – 83)*

Bushes or Bushings: Typically used in vehicles, our range of bushes include suspension, steering column and others. From rubber only to triple bonded. *(Pages 84 – 89)*

Bolt Isolators: Used to hold a bolt in place whilst attenuating vibration or providing a flexible connection. *(Pages 90 – 93)*

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Plate Mounts: Plate/ bulkhead mounts have an outer plate for bolting in position and an innertube for clamping onto. These offer a wide level of deflection in all 3 axes.
(Pages 94 – 96)

Coil Spring Mounts: Ideal for low frequency vibration or shock absorption, AVMR have a wide range of spring-based solutions.
(Pages 97 – 113)

Sandwich Mounts: With a plates top and bottom, sandwich mounts offer multiple fixing locations using bolts both top and bottom of the mount.
Pages 114 – 115 part populated)

Suspended Mounts: For applications where loads are suspended from a ceiling or other structure.

Pads & Matting: These products have no fixtures, although some have location holes.

Shear Mounts: This simple mount is often used as an alternative to bobbins. As the rubber works in shear, vibration absorption is improved.

Marshmallow Mounts: These reinforced rubber mounts offer high absorption levels. Popular on vibration tables and graders.

Piano Feet: Due to our own hobbies, and issues faced, structural vibration from our piano can be isolated in these attractive feet.

Camera Mounts: These wire rope based products come with suction cups to attach to glass and are highly effective vibration and shock absorbers.

Motor-slide bases: Whilst these are not used to absorb vibration, they are necessary in many relevant applications.

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Frequently Asked Questions

You do not have the exact product I need, what should I do?

- Get in touch using the contact details above, we are always happy to help.

I am not sure which product I should use, can you help?

- Get in touch using the contact details above, we are always happy to help.

You do not have quite what I am after, what should I do?

- Get in touch using the contact details above or email us at Sales@AntiVibrationMethods.co.uk. We are always happy to help.

Are your Products RoHS and REACH compliant

- All of our products are both R0HS and REACH compliant. This is a key requirement for many of our customers.

What Rubber Compounds do you use?

- On a daily basis we mould a wide variety of compounds, both varying hardnesses and rubber types. Typical types include Milathane, Natural, EPDM, Nitrile, Neoprene and SBR (commonly called synthetic natural rubber).

Can I mount rubber in tension?

- It can be done, but we do not recommend it and would class this as a potential safety issue. The rubber compounds we use are designed to work in compression and shear, even our suspended mounts will use rubber in compression (if they are rubber-based).

  When rubber is used in tension, the material is generally designed for the job, and it has different properties. We could make elastic bands, but we would use a different rubber compound.

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What happens if I go over the Max Recommended Load?

- The specification of an AV mount is not an exact science. However, there are factors to consider:
    - If the supported load is a little over the max recommended load the mount will be stiffer and absorb less vibration.
    - Heavy overloads risk collapse of the mount due to rubber tearing and stress relaxation.
- AVMR tends to take a more conservative view on max recommended loading of a bobbin mount than competitors. This both helps ensure that the product lasts and normally offers improved performance.
- Our recommended max loadings are just that, recommendations, based on nearly 40 years in the industry. Some applications will be fine if lightly overloaded, but the mounts should be more frequently monitored.
- Contact us if you have specific questions.

Do you only bond to Steel?

- No. Some of our products are not bonded, other products that we regularly manufacture are bonded to stainless steel, aluminium and brass. We also bond rubber to rubber, which is fairly unusual and not required very often.

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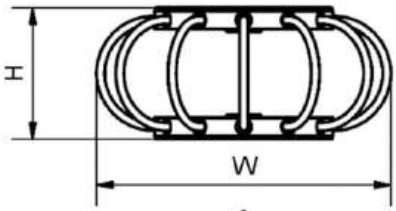
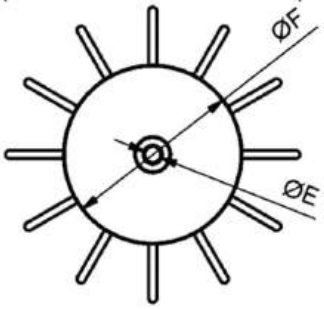
Wire Rope Mounts

High Frequency Radial Wire Rope Mounts

Highly effective wire rope mounts are used for shock and vibration applications and have the following key features:

- Multi-directional & compact
- Highly reliable and long life with very low aging
- Non-magnetic
- Low transmissibility at resonance (lower than 3)
- Temperature range: -40°C to 80°C
- Naturally high damping rates (compared to elastomers)
- Uniform lateral (shear) properties in each direction





Typically used on speakers, lab instruments, cameras, vehicles (incl. drones), fragile equipment.

Materials:

- Stainless steel (316) cables and inserts
- Aluminium discs
- CR (Neoprene) pads

Product	Static Loads (daN)		Stiffness	Deflection at load		Isolation at max load		Dimensions (mm)				Product
	Min	Max	(N/mm)*	Min	Max	25Hz	50 Hz	F (Dia)	H	W	E (Dia)	Weight (Kg)
V-AVAUHF-20	0.25	1.8	6.6	0.1	2.2	75%	90%+	54.5	40	79	M6	0.07
V-AVAUHF-25	1	3.6	13	0.2	2.4	75%	90%+					0.08
V-AVAUHF-30	3	6.7	38	0.2	1.2	50%	90%	74.5	40	94	M8	0.15
V-AVAUHF-40	6	19	96	0.3	2.8	75%	90%+	74.5	40	100	M8	0.19
* Note: Axial Vibration stiffness is measured with peak sinusoidal input of 1mm (+/-20% tolerance)												

These mounts are typically used on higher frequency applications, as seen by the low deflections when loads are low.

Notes:

1. The suggested loads are for axial (compressive) loading.
2. Results generated in ideal conditions may not be representative of those given in other applications or throughout the product's lifetime. Therefore, customers should conduct their own tests.
3. As with all passive AV mounts, a risk of resonance exists at low frequencies and low loads.
    a. 0.8mm deflection is required to start attenuating 25Hz
    b. 0.2mm deflection is required to start attenuating 50Hz

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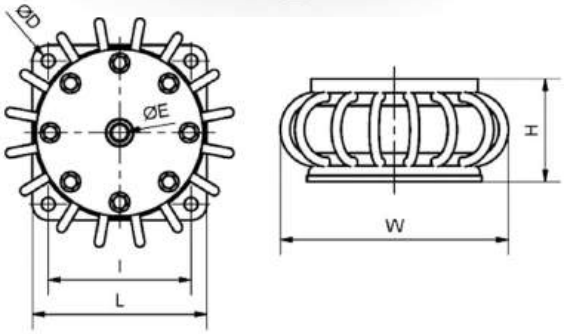
Radial Wire Rope Mounts – please ask for selection advice.

Highly effective shock & vibration mounts, key features include:

- Conforms to the strictest military standard requirements for performance and resistance to environmental agents.
- Optimised to satisfy MIL-STD-901 D
- Vibration: Natural frequency of 15 – 20Hz
- Shock: Response frequency of 11 – 14 Hz
- Multi-directional, compact and non-magnetic
- Highly reliable and long life with very low aging (for military applications normally replaced after major shock events)
- Low transmissibility at resonance (lower than 3)
- Temperature range: -100°C to 260°C
- Naturally high damping rates (compared to elastomers)
- Uniform lateral (shear) properties in each direction



Materials:

- Stainless steel (316) cables and inserts (*some models use 304)
- Aluminium discs (6061-T6) with SURTEC 650

Product	Dimensions (mm)						Product Weight (Kg)
	H	W	L	I	D (Dia)	E (Dia)	
V-AVAU-65-33 (703)	33	65	55	42	6.5	M6	0.12
V-AVAU-70-33 (8S 703)*	33	70	54	42	6.5	M6	0.25
V-AVAU-78-37 (703)*	37	78	60	48	6.5	M8	0.29
V-AVAU-74-41 (704)*	41	74	60	48	6.5	M8	0.34
V-AVAU-77-41 (705)*	41	77	60	48	6.5	M8	0.4
V-AVAU-92-43 (703)	43	92	70	58	6.5	M8	0.23
V-AVAU-93-45 (704)	45	93	70	58	6.5	M8	0.27
V-AVAU-95-46 (705)	46	95	70	58	6.5	M8	0.32
V-AVAU-102-50 (703)**	50	102	77	62	6.5	M8	0.25
V-AVAU-98-48 (704)**	48	98	77	62	6.5	M8	0.29
V-AVAU-99-49 (705)**	49	99	77	62	6.5	M8	0.32
V-AVAU-99-49 (706)**	49	99	77	62	6.5	M8	0.32
V-AVAU-118-54 (704)**	54	118	91	75	6.5	M10	0.4
V-AVAU-121-54 (705)**	54	121	91	75	6.5	M10	0.45
V-AVAU-119-56 (706)**	56	119	91	75	6.5	M10	0.49
V-AVAU-121-63 (707)**	63	121	91	75	6.5	M10	0.63
V-AVAU-143-65 (706)**	65	143	110	90	8.5	M12	0.82
V-AVAU-145-70 (707)**	70	145	110	90	8.5	M12	0.98
V-AVAU-146-70 (708)**	70	146	110	90	8.5	M12	1.2
V-AVAU-170-75 (708)**	75	170	125	105	10.5	M14	1.4
V-AVAU-169-84 (7010)**	84	169	125	105	10.5	M14	1.7

* Stainless steel 304 used instead of 316

** Also available with a through hole rather than a thread (dimension E). Please contact us if this is required.

The numbers in brackets are important as they specify the wire rope used.

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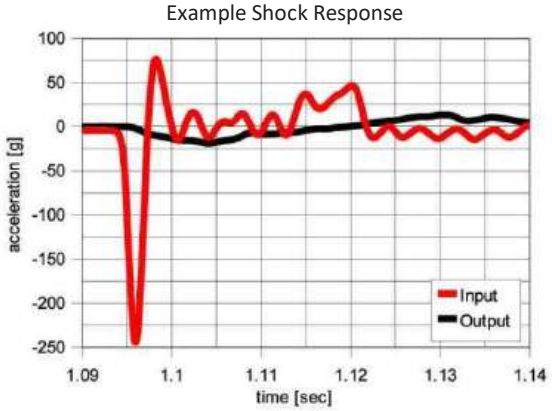
Radial Wire Rope Mounts (cont'd)

Example Shock Response



In this example shock response graph (right), a significant difference can be seen between the input and the relatively smooth output of the shock.

- The Input is the shock loaded externally on the system.
- The output is the experience of the protected equipment.

Model selection is for reference only, please contact us with any enquiries if required.

These tables are valid for mounting in shear (wall mounting) or compression (base mounting) or both. The loads are per mount and assume shock loading in line with the weight of the isolated equipment (vertical).

Shocks with instantaneous variation of velocity:

- Less than, or equal to 1.5m/s. Broadly speaking, this is considered a commercial grade of shock. For example:
  - 30g x 11ms triangular pulse
  - 40g x 6ms semi-sinusoidal pulse
- 2.0m/s. Broadly speaking, this is considered a heavy commercial grade of shock or light military grade. For example:
  - 40g x 11ms triangular pulse
  - 60g x 6ms semi-sinusoidal pulse
  - 30g x 11ms semi-sinusoidal pulse
- 3.0m/s. Broadly speaking, this is considered heavy military grade. For example:
  - 60g x 11ms triangular pulse
  - 100g x 6ms triangular pulse
  - 50g x 11ms semi-sinusoidal pulse

1.5 m/s Input	Load (Kg)	
Suggested Product	Min	Max
V-AVAU-93-45 (704)	1	5
V-AVAU-98-48 (704)	5	15
V-AVAU-99-49 (705)	15	30
V-AVAU-99-49 (706)	30	50
V-AVAU-121-63 (707)	50	65
V-AVAU-145-70 (707)	65	80
V-AVAU-146-70 (708)	80	100

2.0 m/s Input	Load (Kg)	
Suggested Product	Min	Max
V-AVAU-92-43 (703)	1	3
V-AVAU-98-48 (704)	3	6
V-AVAU-99-49 (705)	6	11
V-AVAU-119-56 (706)	11	18
V-AVAU-121-63 (707)	18	23
V-AVAU-143-65 (706)	23	28
V-AVAU-145-70 (707)	28	38
V-AVAU-146-70 (708)	38	55
V-AVAU-170-75 (708)	55	80
V-AVAU-169-84 (7010)	80	100

3.0 m/s Input	Load (Kg)	
Suggested Product	Min	Max
V-AVAU-118-54 (704)	1	3
V-AVAU-121-54 (705)	3	6
V-AVAU-119-56 (706)	6	9
V-AVAU-121-63 (707)	9	15
V-AVAU-143-65 (706)	15	19
V-AVAU-145-70 (707)	19	25
V-AVAU-146-70 (708)	25	32
V-AVAU-170-75 (708)	32	50
V-AVAU-169-84 (7010)	50	75

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Twin System Radial Wire Rope Mounts – ask for selection advice.

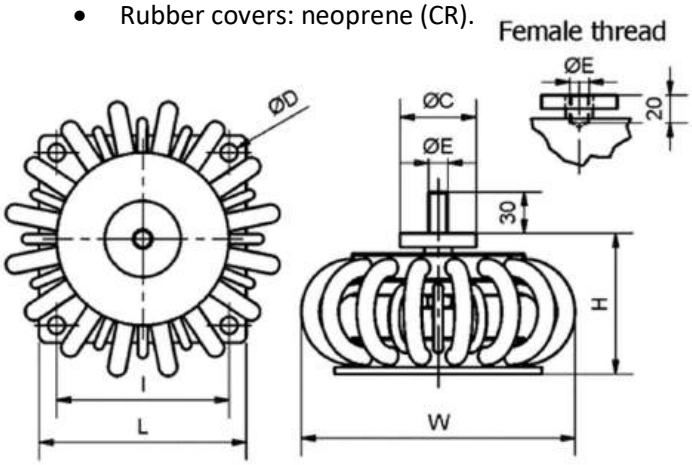
Highly effective shock & vibration mounts, key features include:

- Twin systems with one designed to focus on vibration while the larger system focusses on shock management.
- Static load is carried by the inner wire rope array which also manages vibration requirements (in compression)
- Larger outer wire rope array for shock management.
- Designed for MIL-STD 901 D requirements.
- Vibration: Natural frequency of ~ 8 Hz
  - Hull vibrations typically start above 10 Hz; these mounts offer near complete protection in the marine sector.
- Shock: Response frequency of 14 Hz
  - Shock deflections of 30-34mm
- Customised versions can be made for the land sector.
- Multi-directional, compact, and non-magnetic
- Male and Female mounting thread options.
- Highly reliable & long life with low aging (military applications normally replace after major shock events)
- Low transmissibility at resonance (lower than 3)
- Temperature range: -40°C to 120°C
- Naturally high damping rates (compared to elastomers)
- Most models are available in a version designed for use as a stabiliser mount.

Materials:

- Cables: Stainless steel (316)
- Base and retaining discs: Stainless steel (304)
- Screws and inserts: Stainless steel
- Rubber covers: neoprene (CR).

The loads given below are against suggested isolators resulting from MIL-STD 901 D shock tests. The mounts were positioned as base isolators (underneath the load) with vertical (compressive) shock loading.



Product	Load (Kg)		Dimensions (mm)							Product Weight
	Min	Max	H	W	L	I	C (Dia)	D (Dia)	E (Dia)	
V-AVAUD-170-90	14	19	90	170	125	105	50	10.5	M12	2.5
V-AVAUD-170-92	19	26	92							2.8
V-AVAUD-170-95	26	37	95							3
V-AVAUD-200-99	37	50	99	200	150	125	55	12.5	M14	4.4
V-AVAUD-200-100	50	65	100							4.4
V-AVAUD-200-101	65	81	101							4.5
V-AVAUD-200-102	81	100	102							4.6
Note: By default these items have a male thread on the top. Add "-F" at the end for the female thread variant.										

Please contact us to validate product selections, or to optimise a solution

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Helical Coil Wire Rope Mounts (Cavoflex)

These mounts are a development of the original helical coil mounts developed in the USA in the 1950s. Originally designed for Military use, these are now much more widespread in their application and are still used by NATO and other Defence organisations.

Cavoflex are commonly used for both shock and vibration management, and excel in both requirements.

Our standard range covers wire diameters from 1.5 to 32mm, however bespoke options can be made.

Standard products have been heavily tested to generate performance data. Due to the non-linear nature of the product performance, actual vibration and shock results are much more reliable than theoretical models.

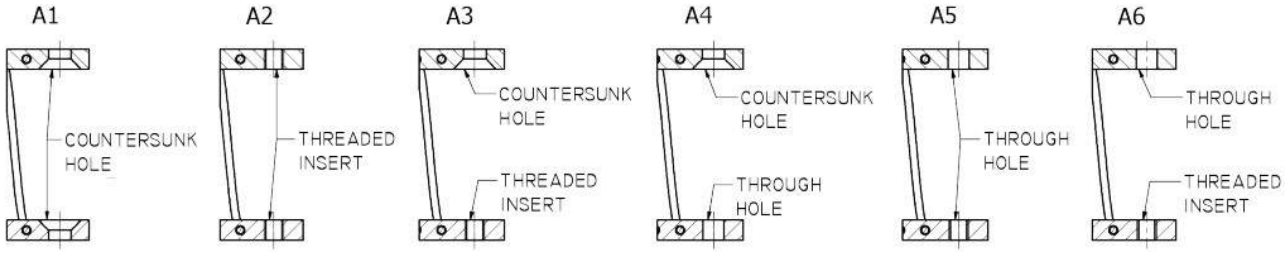
Key features across this range include:

- Multi-direction anti-vibration and anti-shock
- Exceptional reliability, long life, and low aging
- High damping; transmissibility at resonance is lower than 3.
- Non magnetic and corrosion resistant
- Temperature range of -100°C to +260°C
- Mounts are typically offered with 8 or 10 wire rope loops, however fewer loops are available. If only 4 loops are used, shorter mounting bars are also used.

Materials:

- Cable: Stainless steel (316)
- Bars: Aluminium Alloy (6000) with SURTEC 650 surface treatment.
    - Stainless steel is optional
- Screws and inserts: Stainless steel

Helical Coil Wire Rope Mounts – Mounting options



All products must be specified with fixtures which are added to the end of the product number (e.g. "-A4"):

- A1: Countersunk holes on both sides.
- A2: Threaded inserts on both sides.
- A3: Countersunk holes on one side, threaded inserts on the other.
- A4: Countersunk holes on one side, through-holes on the other.
- A5: Through-holes on both sides.
- A6: Through-holes on one side, threaded inserts on the other.

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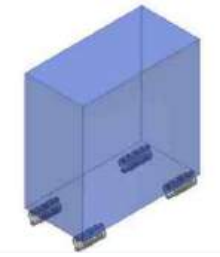
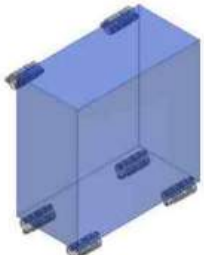
Helical Coil Wire Rope Mounts – Basic model selection

We have given the default Cavoflex models for certain simple scenarios on this page. Model selection is for guidance only, please contact us with any enquiries or alternative scenarios, if required.

These mounts should be loaded in compression either with or without stabilising mounts, as per the diagrams below. These assume that shock or vibration loads are in line with the weight of the isolated equipment (vertical).



Base mounting



Base mounting with stabilisers

Cavoflex for Shock Management			
Load per mount (Kg)		Suggested Mount*	
Min	Max	2.0 m/s	3.0 m/s
0.5	1	V-H-15-40	V-H-25-46
1	2	V-H-25-43	V-H-30-52
2	3	V-H-30-52	V-H-40-64
3	5	V-H-40-53	V-H-50-80
5	7	V-H-50-80	V-H-60-96
7	10	V-H-60-90	V-H-70-108
10	15	V-H-70-90	V-H-80-109
15	21	V-H-80-92	V-H-100-108-4S
21	28	V-H-100-105-4S	V-H-100-108-6S
28	37	V-H-100-105-6S	V-H-100-108
37	49	V-H-100-105	V-H-130-133-4S
49	66	V-H-130-105-4S	V-H-130-133-6S
66	87	V-H-130-105-6S	V-H-130-133
87	110	V-H-130-105	V-H-160-135-6S
110	150	V-H-160-120-4S	V-H-160-135
150	190	V-H-160-120-6S	V-H-190-160-6S
190	240	V-H-160-120	V-H-190-160
240	320	V-H-190-145-6S	V-H-220-178-6S
320	430	V-H-190-145	V-H-220-178
430	570	V-H-220-165-6S	-
570	760	V-H-220-165	-
* suggested Cavoflex mount for given input shock (m/s)			

Cavoflex for Vibration Management		
Load per mount (Kg)		Suggested
Min	Max	Mount*
1	2	V-H-15-38
2	4	V-H-25-43
4	8	V-H-40-61
8	15	V-H-50-80
15	22	V-H-60-96
22	35	V-H-70-90
35	60	V-H-80-92
60	90	V-H-100-108-6S
90	130	V-H-100-108
130	170	V-H-130-133-6S
170	220	V-H-130-133
220	280	V-H-160-135-6S
280	370	V-H-160-135
370	500	V-H-190-145-6S
500	650	V-H-190-145
650	800	V-H-220-165-6S
800	1000	V-H-220-165
1000	1250	V-H-290-241-6S
1250	1550	V-H-290-241
* suggested mounts for forcing frequencies over 1,400 RPM (23.3 Hz)		

Shocks with instantaneous variation of velocity:

- 2.0m/s: heavy commercial grade shock or standard military grade. For example:
  - 40g x 11ms triangular pulse
  - 60g x 6ms semi-sinusoidal pulse
  - 30g x 11ms semi-sinusoidal pulse
- 3.0m/s: heavy military grade. For example:
  - 60g x 11ms triangular pulse
  - 100g x 6ms triangular pulse
  - 50g x 11ms semi-sinusoidal pulse

For more information on each model, please see the following pages.

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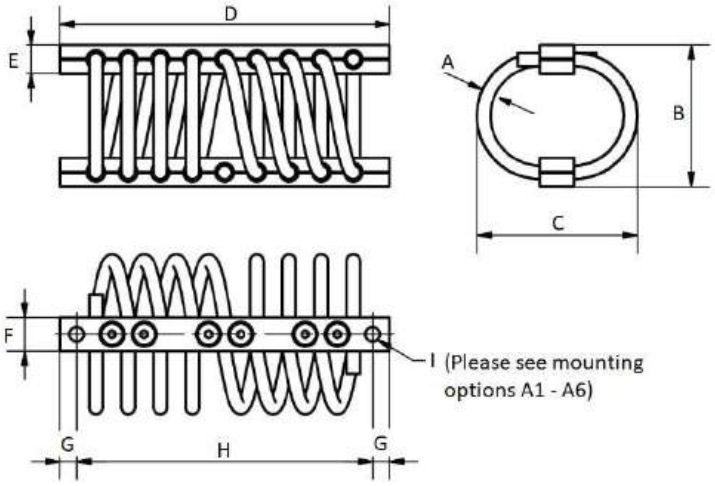
Helical Coil Wire Rope Mounts (Cavoflex) – 1.5-8.0mm Ø wire

We have intentionally not given load and deflection data here as we recommend asking for advice when selecting these mounts.

Note: The drawing is a schematic designed to give key information on the design. Minor details (e.g. screws holding the bars together) might not be relevant or precise to the selected product.



Further products are on the next page.

Product	Dimensions (mm)									Product Weight (Kg)
	A (Dia)	B	C	D	E	F	G	H	I (Dia)	
V-H-15-25	1.5	18	25	80	4	10	5.85	68.3	M4/ 4.2Ø	0.021
V-H-15-28		20	28							0.021
V-H-15-30		25	30							0.022
V-H-15-33		28	33							0.023
V-H-15-35		30	35							0.024
V-H-15-38		33	38							0.025
V-H-15-40		35	40							0.026
V-H-15-43		38	43							0.026
V-H-25-28	2.5	23	28	112	5	12	6	100	M5/ 5.25Ø	0.06
V-H-25-30		25	30							0.06
V-H-25-33		28	33							0.06
V-H-25-38		33	38							0.07
V-H-25-41		36	41							0.07
V-H-25-43		38	43							0.07
V-H-25-46		40	46							0.07
V-H-25-49		44	49							0.08
V-H-30-41	3.0	33	41	127	8.3	15	6.35	114.3	M6/ 6.5Ø	0.11
V-H-30-43		36	43							0.11
V-H-30-46		38	46							0.12
V-H-30-48		41	48							0.12
V-H-30-52		44	52							0.13
V-H-30-62		52	62							0.13
V-H-30-72		54	72							0.14
V-H-30-86		72	86							0.15

Remember to add the mounting option (e.g "-A4") to the end of the part number!

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Helical Coil Wire Rope Mounts (Cavoflex) – 1.5-8.0mm Ø wire (continued)

We have intentionally not given load and deflection data here as we strongly recommend asking for advice when selecting these mounts.

Note: The drawing is a schematic designed to give key information on the design. Minor details (e.g. screws holding the bars together) might not be relevant or precise to the selected product.

Product	Dimensions (mm)									Product Weight (Kg)
	A (Dia)	B	C	D	E	F	G	H	I (Dia)	
V-H-40-43	4.0	34	43	127	8.4	15	6.35	114.3	M6/ 6.5Ø	0.14
V-H-40-45		37	45							0.15
V-H-40-48		39	48							0.16
V-H-40-50		42	50							0.16
V-H-40-53		45	53							0.17
V-H-40-61		51	61							0.18
V-H-40-64		54	64							0.19
V-H-50-43	5.0	38	43	127	10.5	15	6.35	114.3	M6/ 6.5Ø	0.22
V-H-50-46		41	46							0.22
V-H-50-58		51	58							0.26
V-H-50-63		52	63							0.27
V-H-50-80		57	80							0.29
V-H-50-107		81	107							0.33
V-H-60-57	6.0	48	57	146	12.6	15	7.5	131	M6/ 6.5Ø	0.31
V-H-60-64		54	64							0.32
V-H-60-72		59	72							0.35
V-H-60-81		63	81							0.38
V-H-60-90		63	90							0.39
V-H-60-96		67	96							0.41
V-H-60-109		82	109							0.47
V-H-70-63	7.0	54	63	146	16.6	15	7.5	131	M6/ 6.5Ø	0.45
V-H-70-71		59	71							0.49
V-H-70-80		63	80							0.53
V-H-70-89		63	89							0.55
V-H-70-90		70	90							0.58
V-H-70-108		82	108							0.63
V-H-80-64	8.0	54	64	146	16.6	15	7.5	131	M6/ 6.5Ø	0.53
V-H-80-72		59	72							0.58
V-H-80-81		63	81							0.63
V-H-80-90		65	90							0.66
V-H-80-92		70	92							0.69
V-H-80-109		82	109							0.80

Remember to add the mounting option (e.g "-A4") to the end of the part number!

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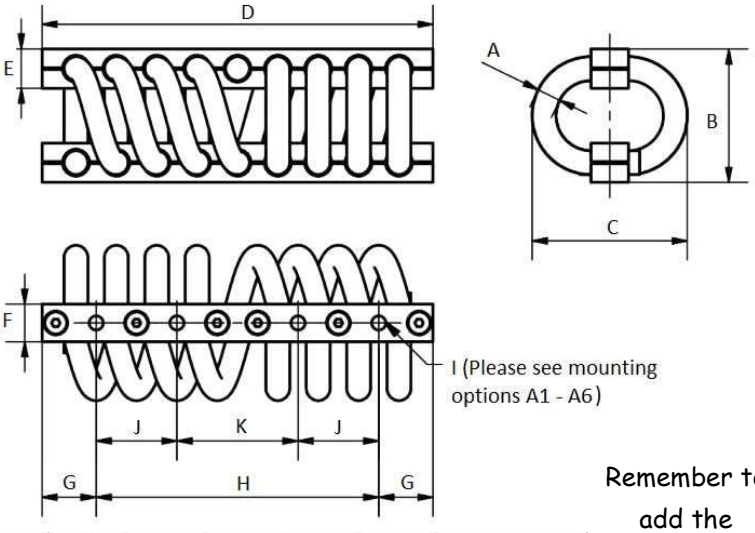
Helical Coil Wire Rope Mounts (Cavoflex) – 10-32mm Ø wire

We have intentionally not given load and deflection data here as we strongly recommend asking for advice when selecting these mounts.

Note: The drawing is a schematic designed to give key information on the design. Minor details (e.g. screws holding the bars together) might not be relevant or precise to the selected product.



Remember to add the mounting option (e.g "-A4") to the end of the part number!

Product	Dimensions (mm)											Product Weight (Kg)
	A (Dia)	B	C	D	E	F	G	H	I (Dia)	J	K	
V-H-100-80	10.0	68	80	217	16.9	25	30.6	155.8	M8/ 9 Ø	44.5	66.8	1.1
V-H-100-84		71	84									1.2
V-H-100-90		74	90									1.2
V-H-100-105		76	105									1.3
V-H-100-108		89	108									1.4
V-H-100-121		105	121									1.5
V-H-100-140		108	140									1.6
V-H-100-143		124	143									1.7
V-H-100-153		135	153									1.9
V-H-130-92	13.0	76	92	217	21	25	30.65	155.7	M8/ 9 Ø	44.5	66.7	2
V-H-130-102		83	102									2.2
V-H-130-105		89	105									2.2
V-H-130-121		95	121									2.5
V-H-130-133		108	133									2.7
V-H-130-143		124	143									2.8
V-H-130-156		137	156									3
V-H-130-180		155	180									3.5
V-H-130-186		166	186									3.7
V-H-160-102	16.0	89	102	268	25	25	38.45	191.1	M10/ 11 Ø	54.6	81.9	3
V-H-160-112		96	112									3.2
V-H-160-120		100	120									3.4
V-H-160-135		109	135									3.7
V-H-160-152		119	152									4
V-H-160-165		127	165									4.3
V-H-160-178		135	178									4.5
V-H-160-185		146	185									4.8

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Helical Coil Wire Rope Mounts (Cavoflex) – 10-32mm Ø wire (continued)

We have intentionally not given load and deflection data here as we strongly recommend asking for advice when selecting these mounts.

Note: The drawing is a schematic designed to give key information on the design. Minor details (e.g. screws holding the bars together) might not be relevant or precise to the selected product.

Product	Dimensions (mm)											Product Weight (Kg)
	A (Dia)	B	C	D	E	F	G	H	I (Dia)	J	K	
V-H-190-125	19.0	104	125	320	31.5	30	44.5	231	M10/ 11 Ø	66	99	4.9
V-H-190-135		110	135									5.2
V-H-190-145		117	145									5.5
V-H-190-160		125	160									5.8
V-H-190-175		135	175									6.3
V-H-190-185		145	185									6.8
V-H-190-200		160	200									7.3
V-H-190-215		175	215									7.9
V-H-220-140	22.0	133	140	368	41.6	40	50.65	266.7	M12/ 13 Ø	76.2	114.3	8.6
V-H-220-165		152	165									9.7
V-H-220-178		159	178									10.2
V-H-220-210		190	210									11.8
V-H-220-235		216	235									13.1
V-H-290-216	29.0	178	216	523	52.5	50	72.5	378	M18/ 19 Ø	108	162	21
V-H-290-241		216	241									24
V-H-290-260		235	260									25
V-H-320-210	32.0	178	210	523	52.5	50	72.5	378	M18/ 19 Ø	108	162	23
V-H-320-248		216	248									27
V-H-320-270		235	270									29

Remember to add the mounting option
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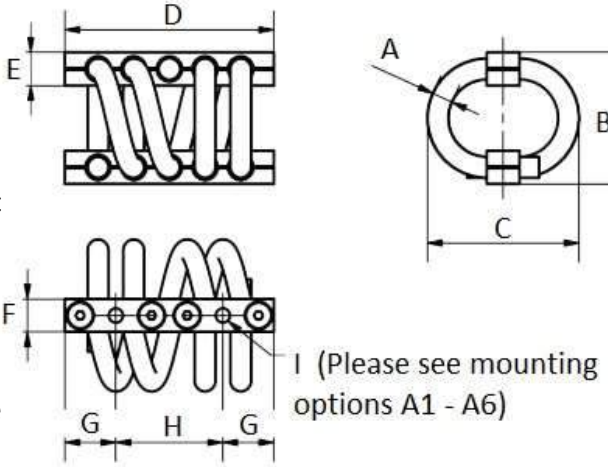
Helical Coil Wire Rope Mounts (Cavoflex) – 4S (4 loop) versions

We have intentionally not given load and deflection data here as we strongly recommend asking for advice when selecting these mounts (unless using the selection tables).

Note, '-6S' version dimensions use the full-size product but with fewer loops.

Note: The drawing is a schematic designed to give key information on the design. Minor details (e.g. screws holding the bars together) might not be relevant or precise to the selected product.



Product	Dimensions (mm)									Product Weight
	A (Dia)	B	C	D	E	F	G	H	I (Dia)	
V-H-100-80-4S	10.0	68	80	131	17	25	32	66.6	M8/ 9 Ø	0.7
V-H-100-84-4S		71	84							0.7
V-H-100-90-4S		74	90							0.7
V-H-100-105-4S		76	105							0.75
V-H-100-108-4S		89	108							0.8
V-H-100-121-4S		105	121							0.9
V-H-100-140-4S		108	140							1
V-H-100-143-4S		124	143							1
V-H-100-153-4S		134	153							1.1
V-H-130-92-4S	13.0	76	92	131	21	25	32	66.6	M8/ 9 Ø	0.9
V-H-130-102-4S		83	102							1
V-H-130-105-4S		89	105							1
V-H-130-121-4S		95	121							1.1
V-H-130-133-4S		108	133							1.2
V-H-130-143-4S		124	143							1.4
V-H-130-156-4S		137	156							1.5
V-H-130-180-4S		155	180							1.7
V-H-160-102-4S	16.0	89	102	160	25	25	39.1	81.9	M10/ 11 Ø	1.5
V-H-160-112-4S		96	112							1.6
V-H-160-120-4S		100	120							1.7
V-H-160-135-4S		109	135							1.9
V-H-160-152-4S		119	152							2
V-H-160-165-4S		127	165							2.2
V-H-160-178-4S		135	178							2.3
V-H-160-185-4S		146	185							2.4

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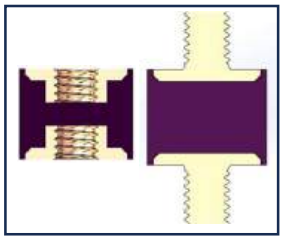
Bobbin Mounts - Introduction

What is a Bobbin Mount?

A male-male bobbin

- A low-cost way of reducing the structural transmission of vibration.
- Bobbins are the most common anti-vibration mount due to their effectiveness and low price point. The two threads are bonded to a flexible rubber element.
- High tolerance to lateral loads, often used in shear (load should be reduced by 5/6th to achieve similar isolation levels to those quoted for compression)
- Typical uses: pumps, heat pumps, air conditioning units, generators, motors, ducting.
- Note: The reduced rubber height in female-female (FF) thread configurations will typically increase stiffness (see cross-section images, right).



Cross section of a typical FF and MM bobbin

How should Bobbin Mounts be Installed & Maintained?

- Ensure the base of the mount is installed on a smooth, flat surface.
- We do not recommend loading bobbin mounts in tension. Even pure shear can result in some tension; however, this is a well-trodden path. A simple bracket (see image to the right) can be used to turn a tensile load into a compressive one.
- We recommend annual inspection of these products. Replace if the rubber is perishing or if any metal elements are damaged.

Can I mix and match Bobbin mounts for one installation?

- Absolutely. The aim is to have a uniform deflection across the vibrating product which will give a uniform natural frequency of the supported structure.
- When we design a support structure, we mix different types (versions) of the same mount to achieve this. In heat pumps this is often an important requirement as the center of mass is heavily offset.

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What are the different shapes for?

Cylindrical Bobbins

- The basic bobbin, this is the starter point for most bobbin requirements.
- Uniform shear properties.
- Lower deflection levels and therefore less absorption/ attenuation.
- Lower cost tooling.
- Generally, a lower cost product as lower cost production techniques are easier to use.

Waisted Bobbins

- Greater deflection than a cylindrical bobbin therefore improved absorption, especially with lower forcing frequencies.
- Greater surface area than a cylindrical bobbin therefore better heat control within the rubber.
- Uniform shear deflection properties.

Round Low Frequency (RLF) Bobbins

- High levels of deflection for the space used, the rubber is worked in shear even when loaded in compression.
- High surface area allows excellent heat generation control.
- Very tight levels of material control are required as loose controls are amplify the tolerance on the product's spring rate.
- Non uniform shear properties.

If you cannot see quite what you are after, contact us. The details are above.

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AVMR's Premium Bobbin Mount Range

What makes these bobbin mounts 'Premium'?

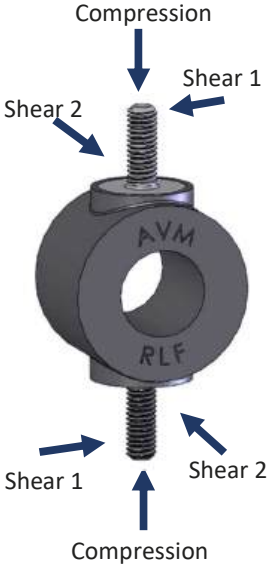
- In short, control of the rubber compound.
  - Some products on the market have a +/-60% tolerance on their nominal spring rates
  - Good quality products have +/- 20%
  - AVMR typically have +/- 15% (up to 20% on some compounds)
- Our premium range is manufactured by AVMR in the UK and we are used to making bespoke variants in low or high volume.
- **Note:** We have a considerable **Defence range** of these products. However, they are very rarely required. if required please contact us.

RLF Premium Bobbin Series

- This lightweight round low frequency bobbin mount is commonly used in small pumps, centrifuges, motors and HVAC applications. It is popular in a wide range of industries.
- Due to its shape, the RLF bobbin offers much higher levels of deflection in compression than typical cylindrical or waisted bobbin mounts.
- Due to the RLF's shape, it has different deflection characteristics in each shear direction.

Materials:

- Rubber: Our default version of this product uses a highly effective natural rubber material. Variants: EPDM, Nitrile and Neoprene.
- Metals: Our default product uses sherardize (zinc) plated mild steel however stainless steel is often requested.



Dimensions	Rubber width (dia)	Rubber height	Male thread	Female thread
Bob-RLF	35mm	38mm	M6 x 16mm	M6 x 5mm

RLF Bobbin loading and deflection data		Recommended loading (Kg) with deflection at max load						Vibration Absorption at max load	
		Compression		Shear 1		Shear 2			
Part Number	Colour code	Min	Max (6mm)	Min	Max (10mm)	Min	Max (10mm)	25 Hz	50 Hz
Bob-RLF/MM/2	Orange	1	4	0.5	1.5	0.5	2	90%	95%
Bob-RLF/MM/3	Green	3	6	1	3	2	4		
Bob-RLF/MM/4	Yellow	5	10	2.5	4	3	5		
Bob-RLF/MM/5	Red	9	17	3	6	4	8		

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10-08 Premium Bobbin Series

- This lightweight cylinder bobbin mount is commonly used in small pumps, motors and HVAC applications. It is popular in the medical industry.
- A bespoke variant of this product is used in Aerospace for shock and vibration absorption applications.

Materials:

- Rubber: Our default version of this product uses a highly effective natural rubber material. Variants: EPDM, Nitrile and Neoprene.
- Metals: Our default product uses Brass due to key customer requirements; however mild or stainless steel can also be used.

Other options:

- We can manufacture this with an M3 thread and do for some customers.

10-08 Bobbin Series		Rubber Dimensions (mm)		Thread	Thread Length		Recommended loading (Kg)		Deflection at Max load	Vibration Absorption at max load	
Part Number	Colour code	Diameter	Height		Male	Female	Min	Max		25 Hz	50 Hz
Bob-10-08/MM/1	Blue	10	8	M4	10	3	0.5	2	1.0	30%	85%
Bob-10-08/MM/2	Orange						1.5	3			
Bob-10-08/MM/3	Green						2.5	6			
Bob-10-08/MM/4	Yellow						5	9			
Bob-10-08/MM/5	Red						8	12			

Note: for Male-Female or Female-Female thread configurations, replace the "MM" in the part number with "MF" or "FF"

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11-11 Premium Bobbin Series

- This lightweight cylinder bobbin mount is commonly used in small pumps, motors and HVAC applications.

Materials:

- Rubber: Our default version of this product uses a highly effective natural rubber material.
- Metals: Our default product uses sherardize (zinc) plated mild steel, options are available

11-11 Bobbin Series		Rubber Dimensions (mm)		Thread	Thread Length		Recommended loading (Kg)		Deflection at Max load	Vibration Absorption at max load	
Part Number	Colour code	Diameter	Height		Male	Female	Min	Max		25 Hz	50 Hz
Bob-11-11/MM/1	Blue	11	11	M4	10	4	1	3	1.4	60%	90%
Bob-11-11/MM/2	Orange						3	4			
Bob-11-11/MM/3	Green						4	7			
Bob-11-11/MM/4	Yellow						6	10			
Bob-11-11/MM/5	Red						10	15			

Note: for Male-Female or Female-Female thread configurations, replace the "MM" in the part number with "MF" or "FF"

15-15 Premium Bobbin Series

- This lightweight waisted bobbin mount is commonly used in small pumps, motors and HVAC applications.

Materials:

- Rubber: Our default version of this product uses a highly effective natural rubber material.
- Metals: Our default product uses sherardize (zinc) plated mild steel, options are available.

15-15 Bobbin Series		Rubber Dimensions (mm)		Thread	Thread Length		Recommended loading (Kg)		Deflection at Max load	Vibration Absorption at max load	
Part Number	Colour code	Diameter (max)	Height		Male	Female	Min	Max		25 Hz	50 Hz
Bob-15-15/MM/1	Blue	15	15	M5	13	5	3	5	1.9	70%	90%
Bob-15-15/MM/2	Orange						4	6			
Bob-15-15/MM/3	Green						5	9			
Bob-15-15/MM/4	Yellow						8	14			
Bob-15-15/MM/5	Red						13	20			

Note: for Male-Female or Female-Female thread configurations, replace the "MM" in the part number with "MF" or "FF"

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16-16 Premium Bobbin Series

- This cylinder bobbin mount is popular with supercar companies but commonly used on pumps, motors and HVAC applications.
- The heads to the studs are hexagonal and designed for a 16mm spanner

Materials:

- Rubber: Our default version of this product uses a highly effective natural rubber material.
- Metals: Our default product uses black (zinc) plated mild steel, options are available

16-16 Bobbin Series		Rubber Dimensions (mm)		Thread	Thread Length (mm)		Recommended loading (Kg)		Deflection at Max load (mm)	Vibration Absorption at max load	
Part Number	Colour code	Diameter (max)	Height		Male	Female	Min	Max		25 Hz	50 Hz
Bob-16-16/MM/1	Blue	16 (also 16mm across flats of head)	16	M6	13	5	4	8	2.0	75%	90%
Bob-16-16/MM/2	Orange						5	10			
Bob-16-16/MM/3	Green						7	13			
Bob-16-16/MM/4	Yellow						11	22			
Bob-16-16/MM/5	Red						15	30			

Note: for Male-Female or Female-Female thread configurations, replace the "MM" in the part number with "MF" or "FF"

20-22 Premium Bobbin Series

- This waisted bobbin is commonly used on pumps, motors and HVAC applications with a greater vibration management challenge. The design makes it particularly effective.

Materials:

- Rubber: Our default version of this product uses a highly effective natural rubber material.
- Metals: Our default product uses black (zinc) plated mild steel, options are available

20-22 Bobbin Series		Rubber Dimensions (mm)		Thread	Thread Length (mm)		Recommended loading (Kg)		Deflection at Max load (mm)	Vibration Absorption at max load	
Part Number	Colour code	Diameter (max)	Height		Male	Female	Min	Max		25 Hz	50 Hz
Bob-20-22/MM/1	Blue	20	22	M6	16	5	4	7	2.7	80%	95%
Bob-20-22/MM/2	Orange						6	11			
Bob-20-22/MM/3	Green						7	14			
Bob-20-22/MM/4	Yellow						10	19			
Bob-20-22/MM/5	Red						13	25			

Note: for Male-Female or Female-Female thread configurations, replace the "MM" in the part number with "MF" or "FF"

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22-16 Premium Bobbin Series

- This cylinder bobbin mount is commonly used on pumps, motors and HVAC systems.
- It is particularly sturdy but does, therefore, give slightly reduced vibration absorption. We therefore recommend higher minimum loads for this product.

Materials:

- Rubber: Our default version of this product uses a highly effective natural rubber.
- Metals: Our default product uses sherardize (zinc) plated mild steel, options are

22-16 Bobbin Series		Rubber Dimensions (mm)		Thread	Thread Length (mm)		Recommended loading (Kg)		Deflection at Max load (mm)	Vibration Absorption at max load	
Part Number	Colour code	Diameter (max)	Height		Male	Female	Min	Max		25 Hz	50 Hz
Bob-22-16/MM/1	Blue	22	16	M6	16	5	6	11	2.0	75%	90%
Bob-22-16/MM/2	Orange						10	14			
Bob-22-16/MM/3	Green						12	19			
Bob-22-16/MM/4	Yellow						15	30			
Bob-22-16/MM/5	Red						25	40			

Note: for Male-Female or Female-Female thread configurations, replace the "MM" in the part number with "MF" or "FF"

26-20 Premium Bobbin Series

- This waisted bobbin mount is commonly used on pumps, motors and HVAC systems.
- By default, this item is supplied with an M8 thread unless otherwise specified.

Materials:

- Rubber: Our default version of this product uses a highly effective natural rubber.
- Metals: Our default product uses sherardize (zinc) plated mild steel, options are available

26-20 Bobbin Series		Rubber Dimensions (mm)		Thread	Thread Length (mm)		Recommended loading (Kg)		Deflection at Max load (mm)	Vibration Absorption at max load	
Part Number	Colour code	Diameter (max)	Height		Male	Female	Min	Max		25 Hz	50 Hz
Bob-26-20/MM/1	Blue	26	20	M6 or M8	20	8	10	16	2.5	80%	95%
Bob-26-20/MM/2	Orange						15	22			
Bob-26-20/MM/3	Green						20	32			
Bob-26-20/MM/4	Yellow						30	47			
Bob-26-20/MM/5	Red						45	56			

Note: for Male-Female or Female-Female thread configurations, replace the "MM" in the part number with "MF" or "FF"

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32-25 Premium Bobbin Series

- This waisted bobbin mount is commonly used on excavators, pumps, motors and HVAC systems.
- Load limits are similar to the 26-20 Premium series, vibration absorption is improved.

Materials:

- Rubber: Our default version of this product uses a highly effective natural rubber.
- Metals: Our default product uses sherardize (zinc) plated mild steel, options are available

32-25 Bobbin Series		Rubber Dimensions (mm)		Thread	Thread Length (mm)		Recommended loading (Kg)		Deflection at Max load (mm)	Vibration Absorption at max load	
Part Number	Colour code	Diameter (max)	Height		Male	Female	Min	Max		25 Hz	50 Hz
Bob-32-25/MM/1	Blue	32	25	M8	20	8	8	16	3.0	80%	95%
Bob-32-25/MM/2	Orange						11	22			
Bob-32-25/MM/3	Green						16	32			
Bob-32-25/MM/4	Yellow						24	47			
Bob-32-25/MM/5	Red						35	70			

Note: for Male-Female or Female-Female thread configurations, replace the "MM" in the part number with "MF" or "FF"

35-40 Premium Bobbin Series

- This tall waisted bobbin mount is commonly used on pumps, motors and HVAC systems.

Materials:

- Rubber: Our default version of this product uses a highly effective natural rubber.
- Metals: Our default product uses sherardize (zinc) plated mild steel, options are available

35-40 Bobbin Series		Rubber Dimensions (mm)		Thread	Thread Length (mm)		Recommended loading (Kg)		Deflection at Max load (mm)	Vibration Absorption at max load	
Part Number	Colour code	Diameter (max)	Height		Male	Female	Min	Max		25 Hz	50 Hz
Bob-35-40/MM/1	Blue	35	40	M10	25	9	11	22	5.0	90%	95%
Bob-35-40/MM/2	Orange						14	28			
Bob-35-40/MM/3	Green						21	42			
Bob-35-40/MM/4	Yellow						31	62			
Bob-35-40/MM/5	Red						55	110			

Note: for Male-Female or Female-Female thread configurations, replace the "MM" in the part number with "MF" or "FF"

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55-35 Premium Bobbin Series

- This waisted bobbin mount is commonly used on pumps, motors, HVAC systems and industrial machinery like excavators and rollers.

Materials:

- Rubber: Our default version of this product uses a highly effective natural rubber.
- Metals: Our default product uses sherardize (zinc) plated mild steel, options are available

55-35 Bobbin Series		Rubber Dimensions (mm)		Thread	Thread Length (mm)		Recommended loading (Kg)		Deflection at Max load (mm)	Vibration Absorption at max load	
Part Number	Colour code	Diameter (max)	Height		Male	Female	Min	Max		25 Hz	50 Hz
Bob-55-35/MM/1	Blue	55	35	M10	25	10	50	90	4.3	85%	95%
Bob-55-35/MM/2	Orange						80	130			
Bob-55-35/MM/3	Green						120	160			
Bob-55-35/MM/4	Yellow						150	210			
Bob-55-35/MM/5	Red						200	320			

Note: for Male-Female or Female-Female thread configurations, replace the "MM" in the part number with "MF" or "FF"

75-35 Premium Bobbin Series

- This heavy duty waisted bobbin mount is commonly used on pumps, motors, HVAC systems and industrial machinery like excavators and rollers.
- Whist this product is waisted, it is only a light waist.

Materials:

- Rubber: Our default version of this product uses a highly effective natural rubber.
- Metals: Our default product uses sherardize (zinc) plated mild steel, options are

75-35 Bobbin Series		Rubber Dimensions (mm)		Thread	Thread Length (mm)		Recommended loading (Kg)		Deflection at Max load (mm)	Vibration Absorption at max load	
Part Number	Colour code	Diameter (max)	Height		Male	Female	Min	Max		25 Hz	50 Hz
Bob-75-35/MM/1	Blue	75	35	M12	25	13	120	190	4.3	85%	95%
Bob-75-35/MM/2	Orange						180	240			
Bob-75-35/MM/3	Green						220	340			
Bob-75-35/MM/4	Yellow						320	490			
Bob-75-35/MM/5	Red						450	650			

Note: for Male-Female or Female-Female thread configurations, replace the "MM" in the part number with "MF" or "FF"

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80-50 Premium Bobbin Series

- This heavy duty waisted bobbin mount is commonly used on pumps, motors, HVAC systems and industrial machinery like excavators and rollers.
- This product has identical load limits to the 75-35 series, however it offers considerably improved vibration absorption due to its heavily defined waist line.

Materials:

- Rubber: Our default version of this product uses a highly effective natural rubber.
- Metals: Our default product uses sherardize (zinc) plated mild steel, options are available

80-50 Bobbin Series		Rubber Dimensions (mm)		Thread	Thread Length (mm)		Recommended loading (Kg)		Deflection at Max load (mm)	Vibration Absorption at max load	
Part Number	Colour code	Diameter (max)	Height		Male	Female	Min	Max		25 Hz	50 Hz
Bob-80-50/MM/1	Blue	80	50	M12	25	13	120	150	7.0	90%	95%
Bob-80-50/MM/2	Orange						150	290			
Bob-80-50/MM/3	Green						220	425			
Bob-80-50/MM/4	Yellow						350	550			
Bob-80-50/MM/5	Red						450	725			

Note: for Male-Female or Female-Female thread configurations, replace the "MM" in the part number with "MF" or "FF"

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Standard Bobbins

AVMR's Standard Quality Bobbin Mount Range

What makes these bobbin mounts 'Standard'?

- In short, control of the rubber compound. When it comes to spring rates:
  - Some products on the market have a +/-60% tolerance
  - Good quality products have +/- 20% tolerance
  - These products typically have +/- 40% tolerance
- Due to these wide tolerances, we do not quote absorption levels for these products
- The quality of these products is good if you are after a 'low cost' option and do not need to be precise or consistent regarding absorption levels.
- Our standard range is manufactured by a partner organisation. AVMR have audited the manufacturing processes and conduct some basic quality control measures on these parts.
- Bespoke options for these are limited to high volumes.
- These parts only come in 50 ShA natural rubber, which is a good grade for these generic mounts.

Overview of this 'Standard' range

Bob-E-MM range – Cylindrical bobbin with Male threads at each end

Bob-E-MF range Cylindrical bobbin with a Male and a Female thread

Bob-E-FF range Cylindrical bobbin with Female threads at each

Bob-E-HD range Waisted bobbins with thread options

Bob-E-HD-SS range Waisted bobbins with stainless-steel Female and Male threads

Bob-E-MM-SS range Cylindrical bobbins with stainless-steel Male threads

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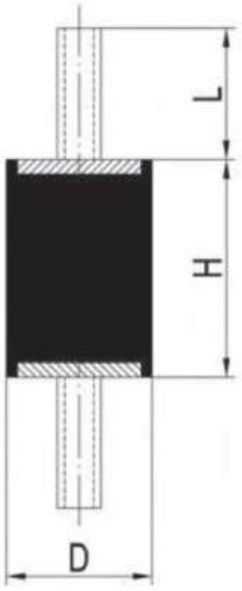
Standard Bobbins

Bob-E-MM range – Cylindrical bobbin with Male threads at each end

AVMR Name	Dia (mm) D	Height (mm) H	Thread	Thread Length (mm) L	Deflection at ideal load (mm)	Ideal load (Kgs)
BOB-E-10-10-MM-M4	10	10	M4	10	2	10
BOB-E-10-15-MM-M4	10	15	M4	10	3	8
BOB-E-13-10-MM-M5	13	10	M5	12	1.5	12
BOB-E-13-15-MM-M5	13	15	M5	12	3	10
BOB-E-13-20-MM-M5	13	20	M5	12	3.5	8
BOB-E-16-8-MM-M4	16	8	M4	10	1.5	15
BOB-E-16-8-MM-M5	16	8	M5	12	1.5	15
BOB-E-16-10-MM-M4	16	10	M4	10	1.5	20
BOB-E-16-10-MM-M5	16	10	M5	12	1.5	20
BOB-E-16-15-MM-M4	16	15	M4	10	3	20
BOB-E-16-15-MM-M5	16	15	M5	12	3	20
BOB-E-16-20-MM-M4	16	20	M4	10	4	20
BOB-E-16-20-MM-M5	16	20	M5	12	4	20
BOB-E-16-25-MM-M4	16	25	M4	10	5	15
BOB-E-16-25-MM-M5	16	25	M5	12	5	15
BOB-E-20-10-MM-M6	20	10	M6	13	2	30
BOB-E-20-15-MM-M6	20	15	M6	13	3	25
BOB-E-20-20-MM-M6	20	20	M6	18	4	25
BOB-E-20-25-MM-M6	20	25	M6	18	5	25
BOB-E-20-30-MM-M6	20	30	M6	18	7	25
BOB-E-25-10-MM-M6	25	10	M6	16	1.5	50
BOB-E-25-10-MM-M8	25	10	M8	20	1.5	50
BOB-E-25-15-MM-M6	25	15	M6	16	3	50
BOB-E-25-15-MM-M8	25	15	M8	20	3	50
BOB-E-25-20-MM-M6	25	20	M6	16	4	50
BOB-E-25-20-MM-M8	25	20	M8	20	4	50
BOB-E-25-22-MM-M6	25	22	M6	16	4	45
BOB-E-25-22-MM-M8	25	22	M8	20	4	45
BOB-E-25-25-MM-M6	25	25	M6	16	5	40
BOB-E-25-25-MM-M8	25	25	M8	20	5	40
BOB-E-25-30-MM-M6	25	30	M6	16	6	35
BOB-E-25-30-MM-M8	25	30	M8	20	6	35
BOB-E-25-40-MM-M6	25	40	M6	16	10	50
BOB-E-25-40-MM-M8	25	40	M8	20	10	50
BOB-E-30-10-MM-M8	30	10	M8	20	2	90
BOB-E-30-15-MM-M8	30	15	M8	20	3	90
BOB-E-30-20-MM-M8	30	20	M8	20	4	90
BOB-E-30-22-MM-M8	30	22	M8	20	4	90
BOB-E-30-25-MM-M8	30	25	M8	20	5	85
BOB-E-30-30-MM-M8	30	30	M8	20	6	80



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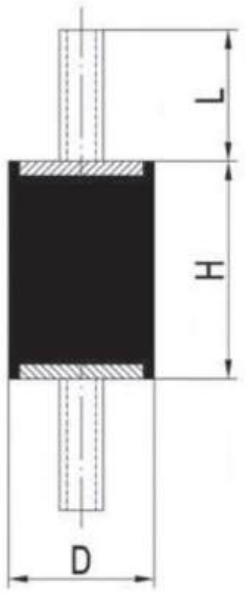
AVMR Anti Vibration Methods

Bob-E-MM range – Cylindrical bobbin with Male threads at each end (continued)

AVMR Name	Dia (mm) D	Height (mm) H	Thread	Thread Length (mm) L	Deflection at ideal load (mm)	Ideal load (Kgs)
BOB-E-30-40-MM-M8	30	40	M8	20	8	60
BOB-E-35-35-MM-M8	35	35	M8	20	8	90
BOB-E-40-20-MM-M8	40	20	M8	20	4	160
BOB-E-40-20-MM-M10	40	20	M10	25	4	160
BOB-E-40-25-MM-M8	40	25	M8	20	6	155
BOB-E-40-25-MM-M10	40	25	M10	25	6	155
BOB-E-40-28-MM-M8	40	28	M8	20	6	155
BOB-E-40-28-MM-M10	40	28	M10	25	6	155
BOB-E-40-30-MM-M8	40	30	M8	20	8	150
BOB-E-40-30-MM-M10	40	30	M10	25	8	150
BOB-E-40-35-MM-M8	40	35	M8	20	8	120
BOB-E-40-35-MM-M10	40	35	M10	25	8	120
BOB-E-40-40-MM-M8	40	40	M8	20	10	120
BOB-E-40-40-MM-M10	40	40	M10	25	10	120
BOB-E-40-45-MM-M8	40	45	M8	20	12	110
BOB-E-40-45-MM-M10	40	45	M10	25	12	110
BOB-E-50-20-MM-M10	50	20	M10	25	4	250
BOB-E-50-25-MM-M10	50	25	M10	25	5.5	250
BOB-E-50-30-MM-M10	50	30	M10	25	8	250
BOB-E-50-35-MM-M10	50	35	M10	25	9	230
BOB-E-50-40-MM-M10	50	40	M10	25	10	220
BOB-E-50-45-MM-M10	50	45	M10	25	11	210
BOB-E-50-50-MM-M10	50	50	M10	25	12	200
BOB-E-50-55-MM-M10	50	55	M10	25	13	200
BOB-E-60-25-MM-M10	60	25	M10	30	5	400
BOB-E-60-35-MM-M10	60	35	M10	30	7	350
BOB-E-60-45-MM-M10	60	45	M10	30	10	300
BOB-E-60-60-MM-M10	60	60	M10	30	12	250
BOB-E-70-35-MM-M10	70	35	M10	30	7	450
BOB-E-70-50-MM-M10	70	50	M10	30	10	350
BOB-E-70-70-MM-M10	70	70	M10	30	13	300
BOB-E-75-25-MM-M12	75	25	M12	35	5	650
BOB-E-75-40-MM-M12	75	40	M12	35	9	500
BOB-E-75-45-MM-M12	75	45	M12	35	10	500
BOB-E-75-55-MM-M12	75	55	M12	35	13	450
BOB-E-80-30-MM-M14	80	30	M14	35	5.5	900
BOB-E-80-40-MM-M14	80	40	M14	35	9	600
BOB-E-80-50-MM-M14	80	50	M14	35	10	750
BOB-E-80-70-MM-M14	80	70	M14	35	15	550
BOB-E-95-40-MM-M16	95	40	M16	45	8	1200



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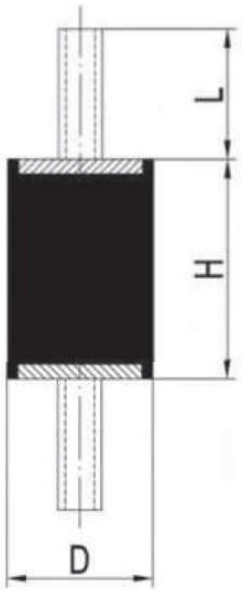
Bob-E-MM range – Cylindrical bobbin with Male threads at each end (continued)

AVMR Name	Dia (mm) D	Height (mm) H	Thread	Thread Length (mm) L	Deflection at ideal load (mm)	Ideal load (Kgs)
BOB-E-95-55-MM-M16	95	55	M16	45	11	1000
BOB-E-95-60-MM-M16	95	60	M16	45	12	800
BOB-E-95-75-MM-M16	95	75	M16	45	13	700
BOB-E-100-40-MM-M16	100	40	M16	45	8	1200
BOB-E-100-60-MM-M16	100	60	M16	45	15	1100
BOB-E-100-75-MM-M16	100	75	M16	45	17	1000
BOB-E-120-50-MM-M16	120	50	M16	45	9	1500
BOB-E-120-75-MM-M16	120	75	M16	45	13	1200
BOB-E-120-100-MM-M16	120	100	M16	45	16	1000
BOB-E-130-40-MM-M16	130	40	M16	45	6	1900
BOB-E-130-50-MM-M16	130	50	M16	45	9	1600
BOB-E-130-75-MM-M16	130	75	M16	45	13	1450
BOB-E-130-100-MM-M16	130	100	M16	45	16	1200
BOB-E-150-50-MM-M16	150	50	M16	45	9	1800
BOB-E-150-50-MM-M20	150	50	M20	50	9	1800
BOB-E-150-60-MM-M16	150	60	M16	45	14	2200
BOB-E-150-60-MM-M20	150	60	M20	50	14	2200
BOB-E-150-75-MM-M16	150	75	M16	45	16	2000
BOB-E-150-75-MM-M20	150	75	M20	50	16	2000
BOB-E-150-100-MM-M16	150	100	M16	45	16	1400
BOB-E-150-100-MM-M20	150	100	M20	50	16	1400
BOB-E-150-120-MM-M16	150	120	M16	45	16	1300
BOB-E-150-120-MM-M20	150	120	M20	50	16	1300
BOB-E-150-140-MM-M16	150	140	M16	45	16	1200
BOB-E-150-140-MM-M20	150	140	M20	50	16	1200



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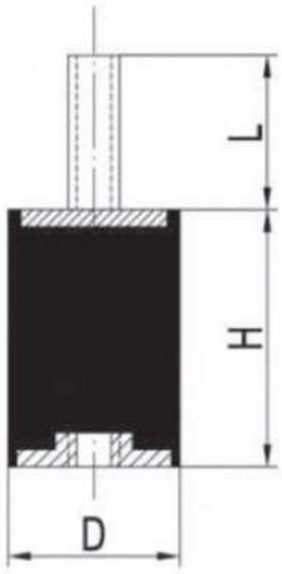
AVMR Anti Vibration Methods

Standard Bobbins

Bob-E-MF range - Cylindrical bobbin with a Male and a Female thread

AVMR Name	Dia (mm) D	Height (mm) H	Thread	Thread Length (mm) L	Deflection at ideal load (mm)	Ideal load (Kgs)
BOB-E-10-10-MF-M4	10	10	M4	10	2	10
BOB-E-10-15-MF-M4	10	15	M4	10	3	8
BOB-E-13-10-MF-M5	13	10	M5	12	1.5	12
BOB-E-13-15-MF-M5	13	15	M5	12	3	10
BOB-E-13-20-MF-M5	13	20	M5	12	3.5	8
BOB-E-16-8-MF-M4	16	8	M4	10	1.5	15
BOB-E-16-8-MF-M5	16	8	M5	12	1.5	15
BOB-E-16-10-MF-M4	16	10	M4	10	1.5	20
BOB-E-16-10-MF-M5	16	10	M5	12	1.5	20
BOB-E-16-15-MF-M4	16	15	M4	10	3	20
BOB-E-16-15-MF-M5	16	15	M5	12	3	20
BOB-E-16-20-MF-M4	16	20	M4	10	4	20
BOB-E-16-20-MF-M5	16	20	M5	12	4	20
BOB-E-16-25-MF-M4	16	25	M4	10	5	15
BOB-E-16-25-MF-M5	16	25	M5	12	5	15
BOB-E-20-10-MF-M6	20	10	M6	13	2	30
BOB-E-20-15-MF-M6	20	15	M6	13	3	25
BOB-E-20-20-MF-M6	20	20	M6	18	4	25
BOB-E-20-25-MF-M6	20	25	M6	18	5	25
BOB-E-20-30-MF-M6	20	30	M6	18	7	25
BOB-E-25-10-MF-M6	25	10	M6	18	1.5	50
BOB-E-25-10-MF-M8	25	10	M8	20	1.5	50
BOB-E-25-15-MF-M6	25	15	M6	18	3	50
BOB-E-25-15-MF-M8	25	15	M8	20	3	50
BOB-E-25-20-MF-M6	25	20	M6	18	4	50
BOB-E-25-20-MF-M8	25	20	M8	20	4	50
BOB-E-25-22-MF-M6	25	22	M6	18	4	45
BOB-E-25-22-MF-M8	25	22	M8	20	4	45
BOB-E-25-25-MF-M6	25	25	M6	18	5	40
BOB-E-25-25-MF-M8	25	25	M8	20	5	40
BOB-E-25-30-MF-M6	25	30	M6	18	6	35
BOB-E-25-30-MF-M8	25	30	M8	20	6	35
BOB-E-25-40-MF-M6	25	40	M6	18	10	50
BOB-E-25-40-MF-M8	25	40	M8	20	10	50
BOB-E-30-15-MF-M8	30	15	M8	20	3	90
BOB-E-30-20-MF-M8	30	20	M8	20	4	90
BOB-E-30-22-MF-M8	30	22	M8	20	4	90
BOB-E-30-25-MF-M8	30	25	M8	20	5	85
BOB-E-30-30-MF-M8	30	30	M8	20	6	80



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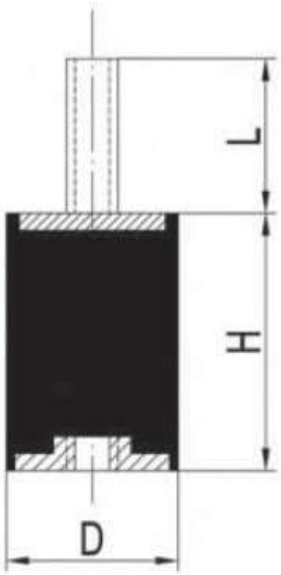
Bob-E-MF range - Cylindrical bobbin with a Male and a Female thread - continued

AVMR Name	Dia (mm) D	Height (mm) H	Thread	Thread Length (mm) L	Deflection at ideal load (mm)	Ideal load (Kgs)
BOB-E-30-40-MF-M8	30	40	M8	20	8	60
BOB-E-35-35-MF-M8	35	35	M8	20	8	90
BOB-E-40-20-MF-M8	40	20	M8	20	4	160
BOB-E-40-20-MF-M10	40	20	M10	25	4	160
BOB-E-40-25-MF-M8	40	25	M8	20	6	155
BOB-E-40-25-MF-M10	40	25	M10	25	6	155
BOB-E-40-28-MF-M8	40	28	M8	20	6	155
BOB-E-40-28-MF-M10	40	28	M10	25	6	155
BOB-E-40-30-MF-M8	40	30	M8	20	8	150
BOB-E-40-30-MF-M10	40	30	M10	25	8	150
BOB-E-40-35-MF-M8	40	35	M8	20	8	120
BOB-E-40-35-MF-M10	40	35	M10	25	8	120
BOB-E-40-40-MF-M8	40	40	M8	20	10	120
BOB-E-40-40-MF-M10	40	40	M10	25	10	120
BOB-E-40-45-MF-M8	40	45	M8	20	12	110
BOB-E-40-45-MF-M10	40	45	M10	25	12	110
BOB-E-50-20-MF-M10	50	20	M10	25	4	250
BOB-E-50-25-MF-M10	50	25	M10	25	5.5	250
BOB-E-50-30-MF-M10	50	30	M10	25	8	250
BOB-E-50-35-MF-M10	50	35	M10	25	9	230
BOB-E-50-40-MF-M10	50	40	M10	25	10	220
BOB-E-50-45-MF-M10	50	45	M10	25	11	210
BOB-E-50-50-MF-M10	50	50	M10	25	12	200
BOB-E-50-55-MF-M10	50	55	M10	25	13	200
BOB-E-60-25-MF-M10	60	25	M10	30	5	400
BOB-E-60-35-MF-M10	60	35	M10	30	7	350
BOB-E-60-45-MF-M10	60	45	M10	30	10	300
BOB-E-60-60-MF-M10	60	60	M10	30	12	250
BOB-E-70-35-MF-M10	70	35	M10	30	7	450
BOB-E-70-50-MF-M10	70	50	M10	30	10	350
BOB-E-70-70-MF-M10	70	70	M10	30	13	300
BOB-E-75-25-MF-M12	75	25	M12	35	5	650
BOB-E-75-40-MF-M12	75	40	M12	35	9	500
BOB-E-75-45-MF-M12	75	45	M12	35	10	500
BOB-E-75-55-MF-M12	75	55	M12	35	13	450
BOB-E-80-30-MF-M14	80	30	M14	35	5.5	900
BOB-E-80-40-MF-M14	80	40	M14	35	9	600
BOB-E-80-50-MF-M14	80	50	M14	35	10	750
BOB-E-80-70-MF-M14	80	70	M14	35	15	550



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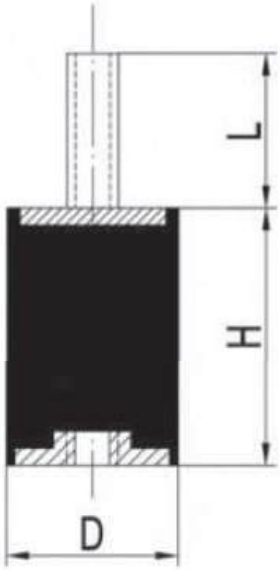
Bob-E-MF range - Cylindrical bobbin with a Male and a Female thread - continued

AVMR Name	Dia (mm) D	Height (mm) H	Thread	Thread Length (mm) L	Deflection at ideal load (mm)	Ideal load (Kgs)
BOB-E-95-40-MF-M16	95	40	M16	45	8	1200
BOB-E-95-55-MF-M16	95	55	M16	45	11	1000
BOB-E-95-60-MF-M16	95	60	M16	45	12	800
BOB-E-95-75-MF-M16	95	75	M16	45	13	700
BOB-E-100-40-MF-M16	100	40	M16	45	8	1200
BOB-E-100-60-MF-M16	100	60	M16	45	15	1100
BOB-E-100-75-MF-M16	100	75	M16	45	17	1000
BOB-E-120-50-MF-M16	120	50	M16	45	9	1500
BOB-E-120-75-MF-M16	120	75	M16	45	13	1200
BOB-E-120-100-MF-M16	120	100	M16	45	16	1000
BOB-E-130-40-MF-M16	130	40	M16	45	6	1900
BOB-E-130-50-MF-M16	130	50	M16	45	9	1600
BOB-E-130-75-MF-M16	130	75	M16	45	13	1450
BOB-E-130-100-MF-M16	130	100	M16	45	16	1200
BOB-E-150-50-MF-M16	150	50	M16	45	9	1800
BOB-E-150-50-MF-M20	150	50	M20	50	9	1800
BOB-E-150-60-MF-M16	150	60	M16	45	14	2200
BOB-E-150-60-MF-M20	150	60	M20	50	14	2200
BOB-E-150-75-MF-M16	150	75	M16	45	16	2000
BOB-E-150-75-MF-M20	150	75	M20	50	16	2000
BOB-E-150-100-MF-M16	150	100	M16	45	16	1400
BOB-E-150-100-MF-M20	150	100	M20	50	16	1400
BOB-E-150-120-MF-M16	150	120	M16	45	16	1300
BOB-E-150-120-MF-M20	150	120	M20	50	16	1300
BOB-E-150-140-MF-M16	150	140	M16	45	16	1200
BOB-E-150-140-MF-M20	150	140	M20	50	16	1200



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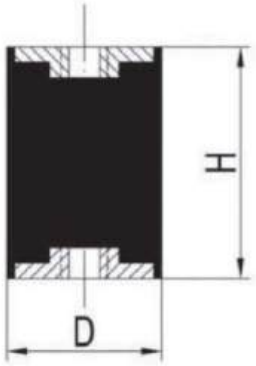
AVMR Anti Vibration Methods

Standard Bobbins

Bob-E-FF range - Cylindrical bobbin with Female threads at each end

AVMR Name	Dia (mm) D	Height (mm) H	Thread	Deflection at ideal load (mm)	Ideal load (Kgs)
BOB-E-10-10-FF-M4	10	10	M4	2	10
BOB-E-10-15-FF-M4	10	15	M4	3	8
BOB-E-13-15-FF-M5	13	15	M5	3	10
BOB-E-13-20-FF-M5	13	20	M5	3.5	8
BOB-E-16-15-FF-M4	16	15	M4	3	20
BOB-E-16-15-FF-M5	16	15	M5	3	20
BOB-E-16-20-FF-M4	16	20	M4	4	20
BOB-E-16-20-FF-M5	16	20	M5	4	20
BOB-E-16-25-FF-M4	16	25	M4	5	15
BOB-E-16-25-FF-M5	16	25	M5	5	15
BOB-E-20-15-FF-M6	20	15	M6	3	25
BOB-E-20-20-FF-M6	20	20	M6	4	25
BOB-E-20-25-FF-M6	20	25	M6	5	25
BOB-E-20-30-FF-M6	20	30	M6	7	25
BOB-E-25-15-FF-M6	25	15	M6	3	50
BOB-E-25-15-FF-M8	25	15	M8	3	50
BOB-E-25-20-FF-M6	25	20	M6	4	50
BOB-E-25-20-FF-M8	25	20	M8	4	50
BOB-E-25-22-FF-M6	25	22	M6	4	45
BOB-E-25-22-FF-M8	25	22	M8	4	45
BOB-E-25-25-FF-M6	25	25	M6	5	40
BOB-E-25-25-FF-M8	25	25	M8	5	40
BOB-E-25-30-FF-M6	25	30	M6	6	35
BOB-E-25-30-FF-M8	25	30	M8	6	35
BOB-E-25-40-FF-M6	25	40	M6	10	50
BOB-E-25-40-FF-M8	25	40	M8	10	50
BOB-E-30-15-FF-M8	30	15	M8	1.5	60
BOB-E-30-20-FF-M8	30	20	M8	4	90
BOB-E-30-22-FF-M8	30	22	M8	4	90
BOB-E-30-25-FF-M8	30	25	M8	5	85
BOB-E-30-30-FF-M8	30	30	M8	6	80
BOB-E-30-40-FF-M8	30	40	M8	8	60
BOB-E-35-35-FF-M8	35	35	M8	8	90
BOB-E-40-20-FF-M8	40	20	M8	4	160
BOB-E-40-20-FF-M10	40	20	M10	4	160
BOB-E-40-25-FF-M8	40	25	M8	6	155
BOB-E-40-25-FF-M10	40	25	M10	6	155



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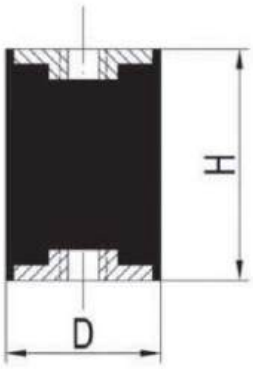
Bob-E-FF range - Cylindrical bobbin with Female threads at each end - continued

AVMR Name	Dia (mm) D	Height (mm) H	Thread	Deflection at ideal load (mm)	Ideal load (Kgs)
BOB-E-40-28-FF-M8	40	28	M8	6	155
BOB-E-40-28-FF-M10	40	28	M10	6	155
BOB-E-40-30-FF-M8	40	30	M8	8	150
BOB-E-40-30-FF-M10	40	30	M10	8	150
BOB-E-40-35-FF-M8	40	35	M8	8	120
BOB-E-40-35-FF-M10	40	35	M10	8	120
BOB-E-40-40-FF-M8	40	40	M8	10	120
BOB-E-40-40-FF-M10	40	40	M10	10	120
BOB-E-40-45-FF-M8	40	45	M8	12	110
BOB-E-40-45-FF-M10	40	45	M10	12	110
BOB-E-50-20-FF-M10	50	20	M10	4	250
BOB-E-50-25-FF-M10	50	25	M10	5.5	250
BOB-E-50-30-FF-M10	50	30	M10	8	250
BOB-E-50-35-FF-M10	50	35	M10	9	230
BOB-E-50-40-FF-M10	50	40	M10	10	220
BOB-E-50-45-FF-M10	50	45	M10	11	210
BOB-E-50-50-FF-M10	50	50	M10	12	200
BOB-E-50-55-FF-M10	50	55	M10	13	200
BOB-E-60-25-FF-M10	60	25	M10	5	400
BOB-E-60-35-FF-M10	60	35	M10	7	350
BOB-E-60-45-FF-M10	60	45	M10	10	300
BOB-E-60-60-FF-M10	60	60	M10	12	250
BOB-E-70-35-FF-M10	70	35	M10	7	450
BOB-E-70-50-FF-M10	70	50	M10	10	350
BOB-E-70-70-FF-M10	70	70	M10	13	300
BOB-E-75-25-FF-M12	75	25	M12	5	650
BOB-E-75-40-FF-M12	75	40	M12	9	500
BOB-E-75-45-FF-M12	75	45	M12	10	500
BOB-E-75-55-FF-M12	75	55	M12	13	450
BOB-E-80-30-FF-M14	80	30	M14	5.5	900
BOB-E-80-40-FF-M14	80	40	M14	9	600
BOB-E-80-50-FF-M14	80	50	M14	10	750
BOB-E-80-70-FF-M14	80	70	M14	15	550
BOB-E-95-40-FF-M16	95	40	M16	8	1200
BOB-E-95-55-FF-M16	95	55	M16	11	1000



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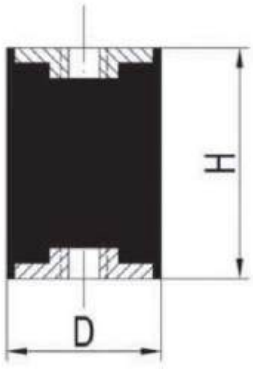
Bob-E-FF range - Cylindrical bobbin with Female threads at each end - continued

AVMR Name	Dia (mm) D	Height (mm) H	Thread	Deflection at ideal load (mm)	Ideal load (Kgs)
BOB-E-95-60-FF-M16	95	60	M16	12	800
BOB-E-95-75-FF-M16	95	75	M16	13	700
BOB-E-100-40-FF-M16	100	40	M16	8	1200
BOB-E-100-60-FF-M16	100	60	M16	15	1100
BOB-E-100-75-FF-M16	100	75	M16	17	1000
BOB-E-120-50-FF-M16	120	50	M16	9	1500
BOB-E-120-75-FF-M16	120	75	M16	13	1200
BOB-E-120-100-FF-M16	120	100	M16	16	1000
BOB-E-130-40-FF-M16	130	40	M16	6	1900
BOB-E-130-50-FF-M16	130	50	M16	9	1600
BOB-E-130-75-FF-M16	130	75	M16	13	1450
BOB-E-130-100-FF-M16	130	100	M16	16	1200
BOB-E-150-50-FF-M16	150	50	M16	9	1800
BOB-E-150-50-FF-M20	150	50	M20	9	1800
BOB-E-150-60-FF-M16	150	60	M16	14	2200
BOB-E-150-60-FF-M20	150	60	M20	14	2200
BOB-E-150-75-FF-M16	150	75	M16	16	2000
BOB-E-150-75-FF-M20	150	75	M20	16	2000
BOB-E-150-100-FF-M16	150	100	M16	16	1400
BOB-E-150-100-FF-M20	150	100	M20	16	1400
BOB-E-150-120-FF-M16	150	120	M16	16	1300
BOB-E-150-120-FF-M20	150	120	M20	16	1300
BOB-E-150-140-FF-M16	150	140	M16	16	1200
BOB-E-150-140-FF-M20	150	140	M20	16	1200



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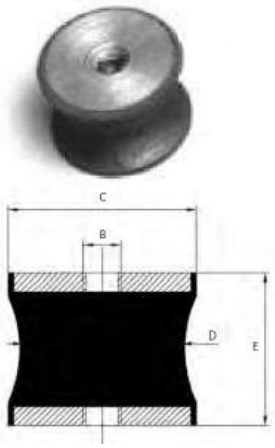
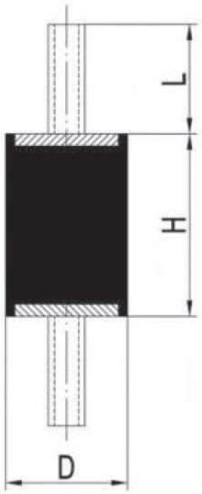
Bob-E-FF-SS-HD range – Waisted bobbins with Stainless Steel Female threads at each end

AVMR Name	Dia (mm) C	Dia (mm) D	Height (mm) E	Thread (B)	Deflection at ideal	Ideal Load (Kgs)
Bob-E-60-36-FF-M10-SS-HD	60	37	36	M10	5	90
Bob-E-60-60-FF-M10-SS-HD	60	51	60	M10	6	150
Bob-E-70-56-FF-M12-SS-HD	70	50	56	M12	6	220
Bob-E-90-77-FF-M12-SS-HD	90	79	77	M12	7	500
Bob-E-108-85-FF-M16-SS-HD	108	95	85	M16	10	800
Bob-E-130-96-FF-M16-SS-HD	130	115	96	M16	13	1400



Bob-E-MM-SS-HD range – Cylindrical bobbins with Stainless Steel Male threads at each end

AVMR Name	Dia (mm) D	Height (mm) H	Thread	Thread length	Deflection at ideal	Ideal Load (Kgs)
Bob-E-20-20-MM-M6-SS	20	20	M6	18	4	25
Bob-E-20-25-MM-M6-SS	20	25	M6	18	5	25
Bob-E-25-25-MM-M8-SS	25	25	M8	18	5	40
Bob-E-25-30-MM-M8-SS	25	30	M8	18	6	35
Bob-E-30-30-MM-M8-SS	30	30	M8	18	6	80
Bob-E-30-40-MM-M8-SS	30	40	M8	18	8	60
Bob-E-35-35-MM-M8-SS	35	35	M8	18	8	90
Bob-E-40-30-MM-M10-SS	40	30	M10	27	8	150
Bob-E-40-40-MM-M10-SS	40	40	M10	27	10	120
Bob-E-50-30-MM-M10-SS	50	30	M10	27	8	250
Bob-E-50-40-MM-M10-SS	50	40	M10	27	10	220
Bob-E-50-50-MM-M10-SS	50	50	M10	27	12	200
Bob-E-60-45-MM-M10-SS	60	45	M10	27	10	300
Bob-E-60-60-MM-M10-SS	60	60	M10	27	12	250



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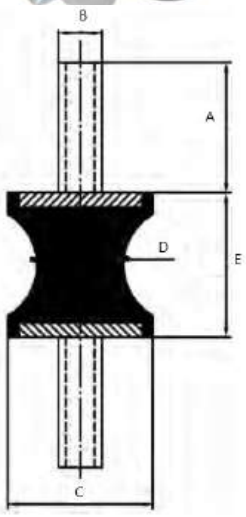
AVMR Anti Vibration Methods

Standard Bobbins

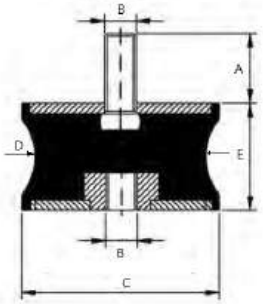
Bob-E-MM-HD range – Waisted bobbins with Male threads at each end

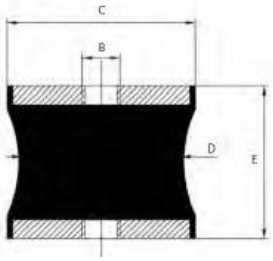
AVMR Name	Diameter (mm) C	Diameter D	Height (E)	Thread (B)	Thread length (A)	Deflection	Load
Bob-E-20-20-MM-M6-HD	20	12	20	M6	18	2.5	15
Bob-E-30-25-MM-M8-HD	30	24	25	M8	20	4	40
Bob-E-40-28-MM-M10-HD	40	22	28	M10	25	5	50
Bob-E-57-44-MM-M8-HD	57	25	44	M8	20	5	60
Bob-E-60-36-MM-M10-HD	60	37	36	M10	30	5	90
Bob-E-60-43-MM-M10-HD	60	35	43	M10	30	4	70
Bob-E-60-44-MM-M8-HD	60	35	44	M8	20	9	70
Bob-E-60-60-MM-M10-HD	60	51	60	M10	30	6	150
Bob-E-70-56-MM-M12-HD	70	50	56	M12	35	6	220
Bob-E-80-63-MM-M14-HD	80	70	63	M14	35	8	400
Bob-E-90-77-MM-M16-HD	90	79	77	M16	45	7	500
Bob-E-95-76-MM-M16-HD	95	80	76	M16	45	9.5	400
Bob-E-108-85-MM-M16-HD	108	95	85	M16	45	10	800
Bob-E-130-96-MM-M16-HD	130	115	96	M16	45	13	1400



Bob-E-FF-HD range – Waisted bobbins with Female threads at each end (also available as MF – male-female ends)

AVMR Name	Diameter (mm) C	Diameter D	Height (E)	Thread (B)	Deflection	Load
Bob-E-20-20-FF-M6-HD	20	12	20	M6	2.5	15
Bob-E-30-25-FF-M8-HD	30	24	25	M8	4	40
Bob-E-40-28-FF-M10-HD	40	22	28	M10	5	60
Bob-E-60-36-FF-M10-HD	60	37	36	M10	5	90
Bob-E-60-43-FF-M10-HD	60	35	43	M10	4	70
Bob-E-60-60-FF-M10-HD	60	51	60	M10	6	150
Bob-E-70-56-FF-M12-HD	70	50	56	M12	6	220
Bob-E-80-65-FF-M12-HD	80	70	65	M12	8	400
Bob-E-90-50-FF-M12-HD	90	80	50	M12	4	800
Bob-E-90-77-FF-M12-HD	90	79	77	M12	7	500
Bob-E-95-76-FF-M16-HD	95	80	76	M16	9.5	400
Bob-E-108-85-FF-M16-HD	108	95	85	M16	10	800
Bob-E-130-96-FF-M16-HD	130	119	96	M16	13	1400





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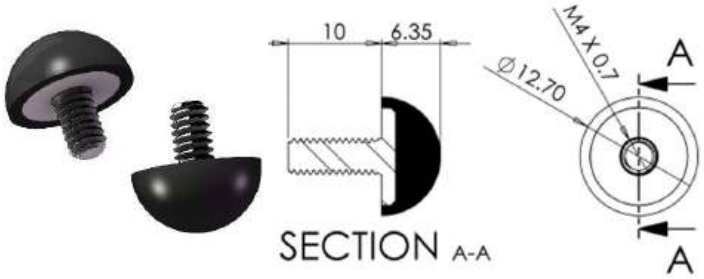
AVMR's Premium Bump Stop and Buffer Range

Note: We have a **Defence Range** of these products, however they are rarely required. If you require these, please contact us.

Hemi Bump

These small bump stops are designed to absorb energy progressively, and to fit into the smallest of locations. They are popular across many industries including aerospace.

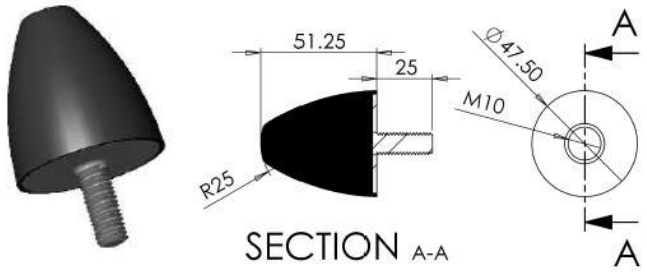


Dimensions in mm

Product	Rubber
BS-Hemi/1	Softest
BS-Hemi/2	↑
BS-Hemi/3	Normal
BS-Hemi/4	↓
BS-Hemi/5	Firmest

Bullet shaped Bump Stop

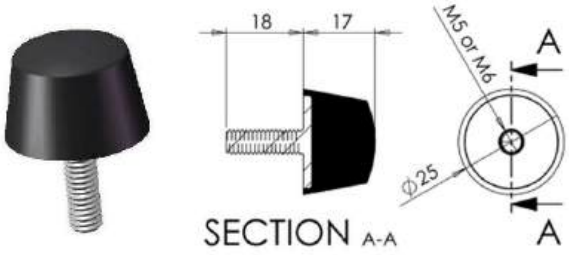
Like the Hemi Bump, bullet shaped bump stops offer a progressive absorption of energy. This means that for light impacts the response is lower, and increases with the energy in the impact.



Product	Rubber
BS-48-54/1	Softest
BS-48-54/2	↑
BS-48-54/3	Normal
BS-48-54/4	↓
BS-48-54/5	Firmest

Semi-Bullet Bump Stop

As the name suggests, this bump stops offers a hybrid shape which initially absorbs energy at a low rate, but then increases more rapidly than a bullet shaped bump stop.

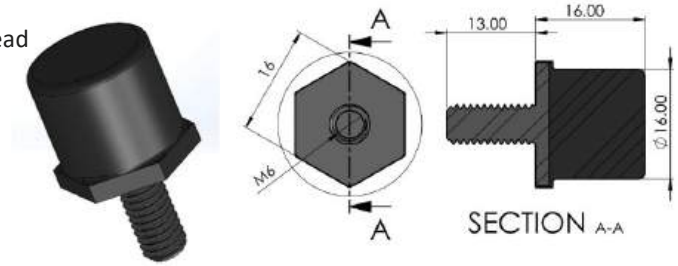


Product	Thread	Rubber
BS-25-17/1	-M5 or -M6	Softest
BS-25-17/2	-M5 or -M6	↑
BS-25-17/3	-M5 or -M6	Normal
BS-25-17/4	-M5 or -M6	↓
BS-25-17/5	-M5 or -M6	Firmest

Note: M5 version has 13mm long thread

Cylinder Bump Stop

These purpose-built M6 cylinder bump stops have a hexagonal head on the stud. The benefit of the hexagonal head is the ease of tightening them into place. Purpose built bump stops come with rounded edges to help improve their lifespan. Longer/different threads can be requested.



Product	Rubber
BS-16-16/1	Softest
BS-16-16/2	↑
BS-16-16/3	Normal
BS-16-16/4	↓
BS-16-16/5	Firmest

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Premium Bump Stops (bobbin-based)

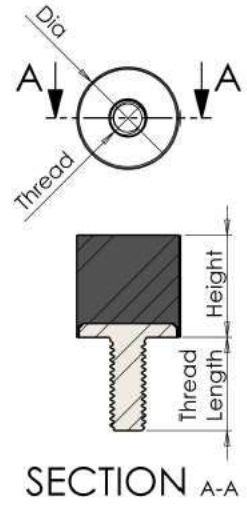
Bump stops which are bobbin-based are typically lower cost than purpose-built bump stops. By default, these bump stops are manufactured in a 50° ShA rubber hardness, if you require a higher or lower load, contact us.
Note: Max loads quoted assume a static load.

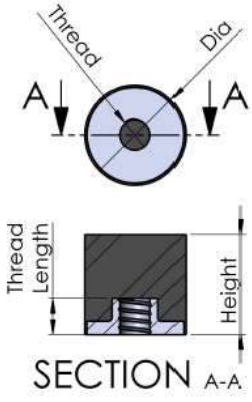
Cylinder bobbin – the standard (example shown with male and female threads)

Waisted bobbin – larger impact area to spread force over a larger area and a waist to slow impact over a greater distance.

Cylinder-Hex – Some of the benefits of the waisted bobbin, but with a hexagonal stud head for a 16mm spanner.

Bobbin style	Shape	Thread Type	Dia	Height	Thread length	Thread	Max Load (Kgs)
BS-08-08-M	Cylinder	Male	8	8	6	M3	8
BS-10-10-M	Cylinder	Male	10	10	10	M4	10
BS-11-11-M	Cylinder	Male	11	11	10	M4	11
BS-15-15-M	Waisted	Male	15	15	13	M5	18
BS-16-16-M	Cylinder - Hex	Male	16	16	13	M6	20
BS-20-22-M	Waisted	Male	20	22	16	M6	23
BS-22-16-M	Cylinder	Male	22	16	16	M6	25
BS-26-20-M	Waisted	Male	26	20	20	M8	45
BS-32-25-M	Waisted	Male	32	25	20	M8	85
BS-35-40-M	Waisted	Male	35	40	25	M10	85
BS-55-35-M	Waisted	Male	55	35	25	M10	250
BS-75-35-M	Waisted	Male	75	35	37	M12	480
BS-80-50-M	Waisted	Male	80	50	37	M12	700
BS-08-08-F	Cylinder	Female	8	8	3	M3	7
BS-10-10-F	Cylinder	Female	10	10	3	M4	9
BS-11-11-F	Cylinder	Female	11	11	4	M4	10
BS-15-15-F	Waisted	Female	15	15	4.5	M5	17
BS-16-16-F	Cylinder - Hex	Female	16	16	6	M6	18
BS-20-22-F	Waisted	Female	20	22	4.8	M6	21
BS-22-16-F	Cylinder	Female	22	16	4.8	M6	23
BS-26-20-F	Waisted	Female	26	20	8	M8	42
BS-32-25-F	Waisted	Female	32	25	8	M8	80
BS-35-40-F	Waisted	Female	35	40	8.5	M10	80
BS-55-35-F	Waisted	Female	55	35	10	M10	250
BS-75-35-F	Waisted	Female	75	35	10	M12	460
BS-80-50-F	Waisted	Female	80	50	10	M12	670





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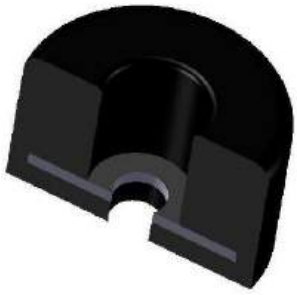
AVMR Anti Vibration Methods

Premium Buffer Range

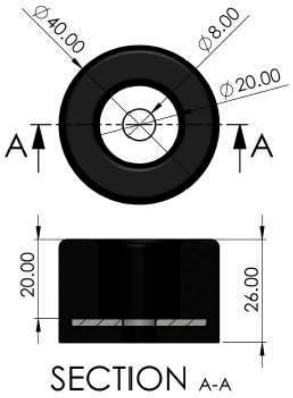
Buffers are essentially bump stops or machine feet, but with a different fixture method – typically via a bolt. We offer these in regularly required load ratings, however more options are available. If you require something a little different, e.g. food grade rubber, please contact us.
Note: The max loads quoted are static and assume the rubber is compressed evenly.

Premium Buffers

These purpose-built buffers are a new AVMR product based on customer requirements. They are simple to use, and easily fixed into place via a single bolt or screw.



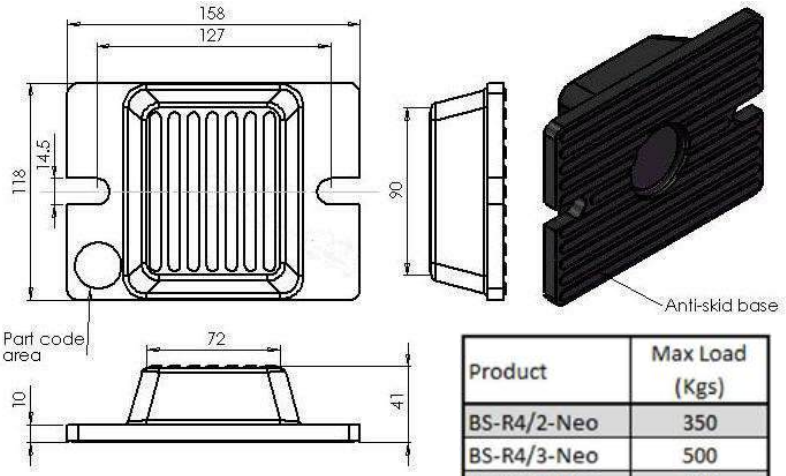
Product	Max Load (Kgs)
BS-40-26/1	50
BS-40-26/2	70
BS-40-26/3	90
BS-40-26/4	110
BS-40-26/5	150



Premium R4 Buffers

These purpose-built buffers have a fully encapsulated metal base plate, by default the rubber is Neoprene. This makes them highly resistant to oils (not fuels) and self-extinguishing if in a fire.

If the focus is weather resistance rather than oil resistance we can use EPDM as an option.

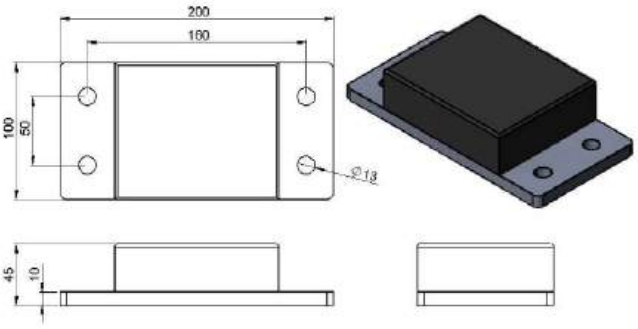


Product	Max Load (Kgs)
BS-R4/2-Neo	350
BS-R4/3-Neo	500
BS-R4/4-Neo	800
BS-R4/5-Neo	1100

Premium Buffers – Heavy duty pad

These purpose-built heavy duty buffers were initially designed to protect a specific marine application, however they are also used in mining, as feet and as a back up to existing shock management systems.

By default, we manufacture these items using a stainless steel 316 plate, but alternatives are available. Please contact us for further information.



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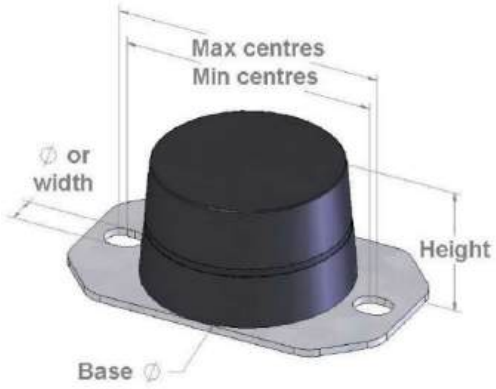
AVMR Anti Vibration Methods

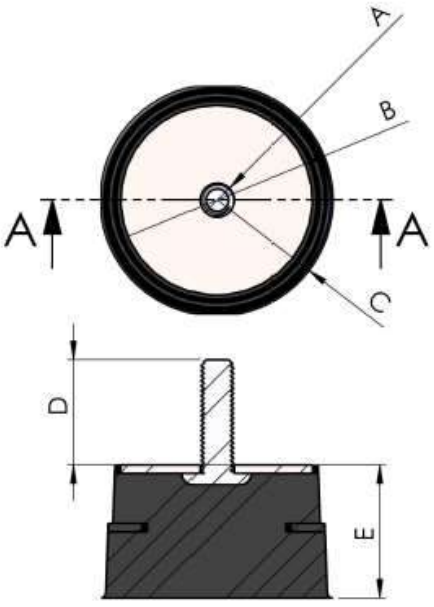
Premium Buffers (Pedestal-based)

Buffers (Pedestal style)	Base Width / Diameter	Height	Slot Width	Min Centres	Max Centres	Max Load (Kgs)
BS-80-50-NTP/1	80	50	12.2	100	106	100
BS-80-50-NTP/2						150
BS-80-50-NTP/3						190
BS-80-50-NTP/4						225
BS-80-50-NTP/5						325
BS-100-80-NTP/1	100	80	17	140	150	120
BS-100-80-NTP/2						160
BS-100-80-NTP/3						250
BS-100-80-NTP/4						425
BS-100-80-NTP/5						620
BS-150-80-NTP/1	150	80	20	190	209	500
BS-150-80-NTP/2						600
BS-150-80-NTP/3						1175
BS-150-80-NTP/4						1300
BS-150-80-NTP/5						1500



Premium Buffers (Bobbin-based)

Buffers (Bobbins-style)	A x D	B (Dia)	C (Dia)	E	Max Load (Kgs)
BS-80-50-NBP/1	M12 x 37	70	80	50	100
BS-80-50-NBP/2					150
BS-80-50-NBP/3					190
BS-80-50-NBP/4					225
BS-80-50-NBP/5					325
BS-100-80-NBP/1	M20 x 37	100	110	80	120
BS-100-80-NBP/2					160
BS-100-80-NBP/3					250
BS-100-80-NBP/4					425
BS-100-80-NBP/5					620
BS-150-80-NBP/1	M20 x 37	150	170	80	500
BS-150-80-NBP/2					600
BS-150-80-NBP/3					1175
BS-150-80-NBP/4					1300
BS-150-80-NBP/5					1500



SECTION A-A

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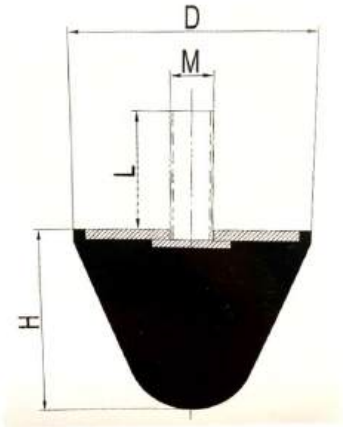
AVMR's Standard Bump Stop and Buffer Range

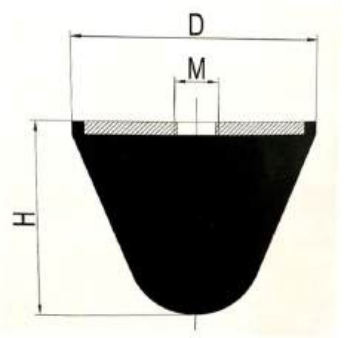
Standard Bump Stops (bullet-shaped) – Male thread

Bullet shaped mounts have a rounded end, snub-nosed are a similar shape but with a flat end (dimension H gives the rubber height in both cases).
These bump stops are only available in a firm and basic compound.



Product	Shape	Dia (D)	Height (H)	Thread (M x L)	Max Load (Kgs)
BS-E-20-20-M-Bull	Bullet	20	20	M6 x 18	70
BS-E-25-20-M-Bull	Bullet	25	20	M8 x 20	100
BS-E-30-30-M-M6-Bull	Bullet	30	30	M6 x 17	150
BS-E-30-30-M-M8-Bull	Bullet	30	30	M8 x 20	150
BS-E-50-48-M-M8-Bull	Bullet	50	48	M8 x 20	380
BS-E-50-48-M-M10-Bull	Bullet	50	48	M10 x 25	380
BS-E-50-58-M-Bull	Bullet	50	58	M8 x 20	400
BS-E-50-64-M-Bull	Bullet	50	64	M8 x 35	370
BS-E-60-40-M-Bull	Bullet	60	40	M14 x 62	550
BS-E-70-60-M-Bull	Bullet	70	60	M12 x 35	550
BS-E-84-52-M-Bull	Snub-nosed	84	52	M12 x 35	1500
BS-E-90-75-M-Bull	Bullet	90	75	M16 x 45	1100
BS-E-95-82-M-Bull	Bullet	95	82	M16 x 45	1100
BS-E-120-75-M-Bull	Snub-nosed	120	75	M16 x 45	3000
BS-E-220-82-M-Bull	Snub-nosed	220	82	M24 x 80	15000

Standard Bump Stops (bullet-shaped) – Female thread



Product	Shape	Dia (D)	Height (H)	Thread (M)	Max Load (Kgs)
BS-E-20-20-F-Bull	Bullet	20	20	M6	70
BS-E-25-20-F-Bull	Bullet	25	20	M8	100
BS-E-30-30-F-Bull	Bullet	30	30	M6	150
BS-E-30-30-F-Bull	Bullet	30	30	M8	150
BS-E-50-48-F-Bull	Bullet	50	48	M10	380
BS-E-70-60-F-Bull	Bullet	70	60	M12	550
BS-E-84-52-F-Bull	Snub-nosed	84	52	M12	1500
BS-E-90-74-F-Bull	Bullet	90	74	M16	1100
BS-E-95-82-F-Bull	Bullet	95	82	M16	1100
BS-E-120-75-F-Bull	Snub-nosed	120	75	M16	3000
BS-E-220-137-F-Bull	Snub-nosed	220	137	M24	15000

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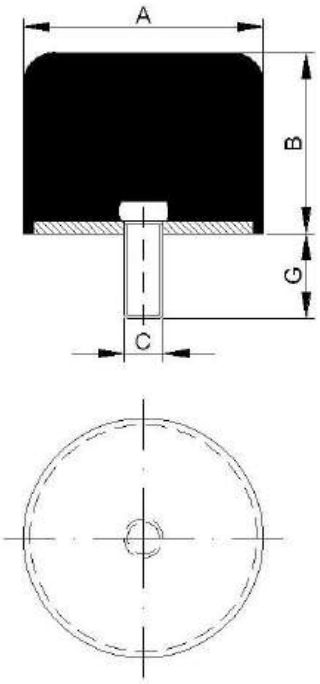
Standard Bump Stops (domed head) – Male thread

These purpose-built domed bump stops offer very low levels of progression on the rebound, but their design does remove the potential for impact with a corner of rubber.

The are, unfortunately, only available with a male thread.



Product	Dia (A)	Height (B)	Thread x Length (C x G)	Max Load (Kgs)
BS-E-40-32-Dome	40	32	M8 x 30	425
BS-E-50-40-Dome	50	40	M10 x 25	635
BS-E-63-50-Dome	63	50	M10 x 25	975
BS-E-80-63-Dome	80	63	M12 x 25	1,625
BS-E-100-80-Dome	100	80	M12 x 27	2,450
BS-E-125-100-Dome	125	100	M16 x 45	3,900
BS-E-150-125-Dome	150	125	M16 x 45	7,500
BS-E-200-160-Dome	200	160	M20 x 49	9,550
BS-E-250-200-Dome	250	200	M20 x 49	15,250
BS-E-315-250-Dome	315	250	M24 x 60	24,350

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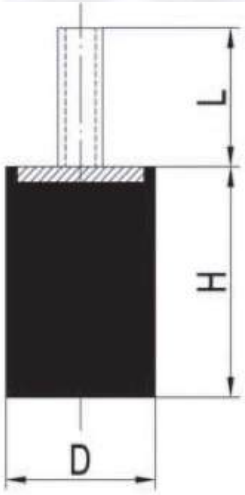
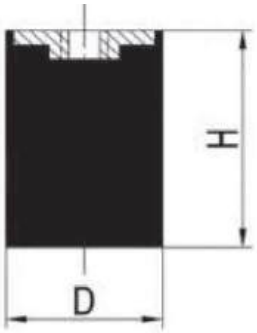
Standard Bump Stops (bobbin-based) – Male & Female threads

Product (male thread)	Product (female thread)	Dia (D)	Height (H)	Thread	Thread Lenth (L - male only)	Max Load (Kgs)
BS-E-10-10-M-M4	BS-E-10-10-F-M4	10	10	M4	10	10
BS-E-10-15-M-M4	BS-E-10-15-F-M4	10	15	M4	10	8
BS-E-13-10-M-M5	BS-E-13-10-F-M5	13	10	M5	12	12
BS-E-13-15-M-M5	BS-E-13-15-F-M5	13	15	M5	12	10
BS-E-13-20-M-M5	BS-E-13-20-F-M5	13	20	M5	12	8
BS-E-16-8-M-M4	BS-E-16-8-F-M4	16	8	M4	10	15
BS-E-16-8-M-M5	BS-E-16-8-F-M5	16	8	M5	12	15
BS-E-16-10-M-M4	BS-E-16-10-F-M4	16	10	M4	10	20
BS-E-16-10-M-M5	BS-E-16-10-F-M5	16	10	M5	12	20
BS-E-16-15-M-M4	BS-E-16-15-F-M4	16	15	M4	10	20
BS-E-16-15-M-M5	BS-E-16-15-F-M5	16	15	M5	12	20
BS-E-16-20-M-M4	BS-E-16-20-F-M4	16	20	M4	10	20
BS-E-16-20-M-M5	BS-E-16-20-F-M5	16	20	M5	12	20
BS-E-16-25-M-M4	BS-E-16-25-F-M4	16	25	M4	10	15
BS-E-16-25-M-M5	BS-E-16-25-F-M5	16	25	M5	12	15
BS-E-20-10-M-M6	BS-E-20-10-F-M6	20	10	M6	13	30
BS-E-20-15-M-M6	BS-E-20-15-F-M6	20	15	M6	13	25
BS-E-20-20-M-M6	BS-E-20-20-F-M6	20	20	M6	18	25
BS-E-20-25-M-M6	BS-E-20-25-F-M6	20	25	M6	18	25
BS-E-20-30-M-M6	BS-E-20-30-F-M6	20	30	M6	18	25
BS-E-25-10-M-M6	BS-E-25-10-F-M6	25	10	M6	16	50
BS-E-25-10-M-M8	BS-E-25-10-F-M8	25	10	M8	20	50
BS-E-25-15-M-M6	BS-E-25-15-F-M6	25	15	M6	16	50
BS-E-25-15-M-M8	BS-E-25-15-F-M8	25	15	M8	20	50
BS-E-25-20-M-M6	BS-E-25-20-F-M6	25	20	M6	16	50
BS-E-25-20-M-M8	BS-E-25-20-F-M8	25	20	M8	20	50
BS-E-25-22-M-M6	BS-E-25-22-F-M6	25	22	M6	16	45
BS-E-25-22-M-M8	BS-E-25-22-F-M8	25	22	M8	20	45
BS-E-25-25-M-M6	BS-E-25-25-F-M6	25	25	M6	16	40
BS-E-25-25-M-M8	BS-E-25-25-F-M8	25	25	M8	20	40
BS-E-25-30-M-M6	BS-E-25-30-F-M6	25	30	M6	16	35
BS-E-25-30-M-M8	BS-E-25-30-F-M8	25	30	M8	20	35
BS-E-25-40-M-M6	BS-E-25-40-F-M6	25	40	M6	16	50
BS-E-25-40-M-M8	BS-E-25-40-F-M8	25	40	M8	20	50





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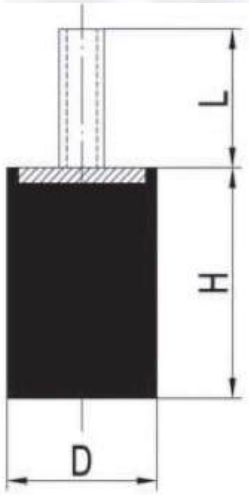
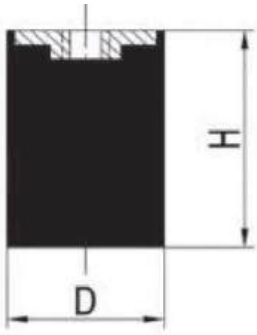
AVMR Anti Vibration Methods

Standard Bump Stops (bobbin-based) – Male & Female threads (continued)

Product (male thread)	Product (female thread)	Dia (D)	Height (H)	Thread	Thread Lenth (L - male only)	Max Load (Kgs)
BS-E-30-10-M-M8	BS-E-30-10-F-M8	30	10	M8	20	90
BS-E-30-15-M-M8	BS-E-30-15-M-M8	30	15	M8	20	90
BS-E-30-20-M-M8	BS-E-30-20-F-M8	30	20	M8	20	90
BS-E-30-22-M-M8	BS-E-30-22-F-M8	30	22	M8	20	90
BS-E-30-25-M-M8	BS-E-30-25-F-M8	30	25	M8	20	85
BS-E-30-30-M-M8	BS-E-30-30-F-M8	30	30	M8	20	80
BS-E-30-40-M-M8	BS-E-30-40-F-M8	30	40	M8	20	60
BS-E-35-35-M-M8	BS-E-35-35-F-M8	35	35	M8	20	90
BS-E-40-20-M-M8	BS-E-40-20-F-M8	40	20	M8	20	160
BS-E-40-20-M-M10	BS-E-40-20-F-M10	40	20	M10	25	160
BS-E-40-25-M-M8	BS-E-40-25-F-M8	40	25	M8	20	155
BS-E-40-25-M-M10	BS-E-40-25-F-M10	40	25	M10	25	155
BS-E-40-28-M-M8	BS-E-40-28-F-M8	40	28	M8	20	155
BS-E-40-28-M-M10	BS-E-40-28-F-M10	40	28	M10	25	155
BS-E-40-30-M-M8	BS-E-40-30-F-M8	40	30	M8	20	150
BS-E-40-30-M-M10	BS-E-40-30-F-M10	40	30	M10	25	150
BS-E-40-35-M-M8	BS-E-40-35-F-M8	40	35	M8	20	120
BS-E-40-35-M-M10	BS-E-40-35-F-M10	40	35	M10	25	120
BS-E-40-40-M-M8	BS-E-40-40-F-M8	40	40	M8	20	120
BS-E-40-40-M-M10	BS-E-40-40-F-M10	40	40	M10	25	120
BS-E-40-45-M-M8	BS-E-40-45-F-M8	40	45	M8	20	110
BS-E-40-45-M-M10	BS-E-40-45-F-M10	40	45	M10	25	110
BS-E-50-20-M-M10	BS-E-50-20-F-M10	50	20	M10	25	250
BS-E-50-25-M-M10	BS-E-50-25-F-M10	50	25	M10	25	250
BS-E-50-30-M-M10	BS-E-50-30-F-M10	50	30	M10	25	250
BS-E-50-35-M-M10	BS-E-50-35-F-M10	50	35	M10	25	230
BS-E-50-40-M-M10	BS-E-50-40-F-M10	50	40	M10	25	220
BS-E-50-45-M-M10	BS-E-50-45-F-M10	50	45	M10	25	210
BS-E-50-50-M-M10	BS-E-50-50-F-M10	50	50	M10	25	200
BS-E-50-55-M-M10	BS-E-50-55-F-M10	50	55	M10	25	200
BS-E-60-25-M-M10	BS-E-60-25-F-M10	60	25	M10	25	400
BS-E-60-35-M-M10	BS-E-60-35-F-M10	60	35	M10	25	350
BS-E-60-45-M-M10	BS-E-60-45-F-M10	60	45	M10	25	300
BS-E-60-60-M-M10	BS-E-60-60-F-M10	60	60	M10	25	250
BS-E-70-35-M-M10	BS-E-70-35-F-M10	70	35	M10	25	450
BS-E-70-50-M-M10	BS-E-70-50-F-M10	70	50	M10	25	350
BS-E-70-70-M-M10	BS-E-70-70-F-M10	70	70	M10	25	300





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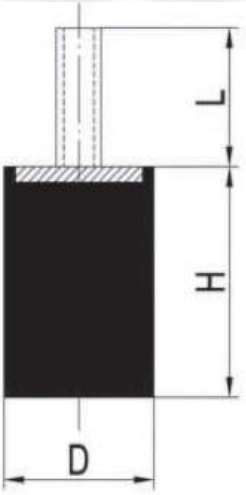
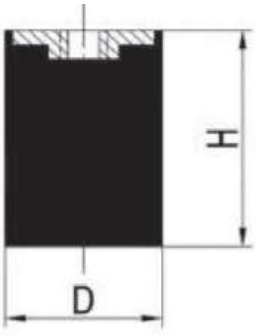
AVMR Anti Vibration Methods

Standard Bump Stops (bobbin-based) – Male & Female threads

Product (male thread)	Product (female thread)	Dia (D)	Height (H)	Thread	Thread Lenth (L - male only)	Max Load (Kgs)
BS-E-75-25-M-M12	BS-E-75-25-F-M12	75	25	M12	35	650
BS-E-75-40-M-M12	BS-E-75-40-F-M12	75	40	M12	35	500
BS-E-75-45-M-M12	BS-E-75-45-F-M12	75	45	M12	35	500
BS-E-75-55-M-M12	BS-E-75-55-F-M12	75	55	M12	35	450
BS-E-80-30-M-M14	BS-E-80-30-F-M14	80	30	M14	35	900
BS-E-80-40-M-M14	BS-E-80-40-F-M14	80	40	M14	35	600
BS-E-80-50-M-M14	BS-E-80-50-F-M14	80	50	M14	35	750
BS-E-80-70-M-M14	BS-E-80-70-F-M14	80	70	M14	35	550
BS-E-95-40-M-M16	BS-E-95-40-F-M16	95	40	M16	45	1200
BS-E-95-55-M-M16	BS-E-95-55-F-M16	95	55	M16	45	1000
BS-E-95-60-M-M16	BS-E-95-60-F-M16	95	60	M16	45	800
BS-E-95-75-M-M16	BS-E-95-75-F-M16	95	75	M16	45	700
BS-E-100-40-M-M16	BS-E-100-40-F-M16	100	40	M16	45	1200
BS-E-100-60-M-M16	BS-E-100-60-F-M16	100	60	M16	45	1100
BS-E-100-75-M-M16	BS-E-100-75-F-M16	100	75	M16	45	1000
BS-E-120-50-M-M16	BS-E-120-50-F-M16	120	50	M16	45	1500
BS-E-120-75-M-M16	BS-E-120-75-F-M16	120	75	M16	45	1200
BS-E-120-100-M-M16	BS-E-120-100-F-M16	120	100	M16	45	1000
BS-E-130-40-M-M16	BS-E-130-40-F-M16	130	40	M16	45	1900
BS-E-130-50-M-M16	BS-E-130-50-F-M16	130	50	M16	45	1600
BS-E-130-75-M-M16	BS-E-130-75-F-M16	130	75	M16	45	1450
BS-E-130-100-M-M16	BS-E-130-100-F-M16	130	100	M16	45	1200
BS-E-150-50-M-M16	BS-E-150-50-F-M16	150	50	M16	45	1800
BS-E-150-50-M-M20	BS-E-150-50-F-M20	150	50	M20	50	1800
BS-E-150-60-M-M16	BS-E-150-60-F-M16	150	60	M16	45	2200
BS-E-150-60-M-M20	BS-E-150-60-F-M20	150	60	M20	50	2200
BS-E-150-75-M-M16	BS-E-150-75-F-M16	150	75	M16	45	2000
BS-E-150-75-M-M20	BS-E-150-75-F-M20	150	75	M20	50	2000
BS-E-150-100-M-M16	BS-E-150-100-F-M16	150	100	M16	45	1400
BS-E-150-100-M-M20	BS-E-150-100-F-M20	150	100	M20	50	1400
BS-E-150-120-M-M16	BS-E-150-120-F-M16	150	120	M16	45	1300
BS-E-150-120-M-M20	BS-E-150-120-F-M20	150	120	M20	50	1300
BS-E-150-140-M-M16	BS-E-150-140-F-M16	150	140	M16	45	1200
BS-E-150-140-M-M20	BS-E-150-140-F-M20	150	140	M20	50	1200
BS-E-200-100-M-M20	BS-E-200-100-F-M20	200	100	M20	50	2500





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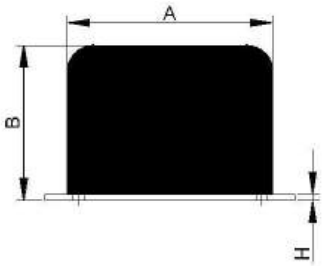
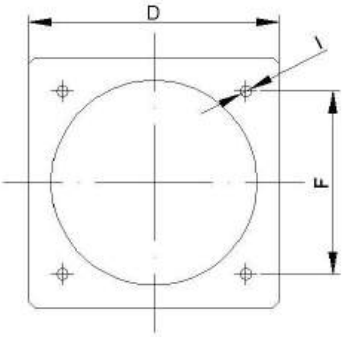
Standard Buffers (domed head)

These purpose-built domed buffers offer very low levels of progression, but their design does remove the potential for impact with a corner of rubber.

As can be seen from the table, they also come in heavy duty sizes.





Product	Dia (A)	Height (B)	Plate length (D)	Hole Dia (I)	Hole centres (F)	Max Load (Kgs)
BS-E-40-32-Plate	40	32	50	5.5	40	425
BS-E-50-40-Plate	50	40	63	6.5	50	635
BS-E-63-50-Plate	63	50	80	6.5	63	975
BS-E-80-63-Plate	80	63	100	9	80	1,625
BS-E-100-80-Plate	100	80	125	9	100	2,450
BS-E-125-100-Plate	125	100	150	11	125	3,900
BS-E-150-125-Plate	150	125	200	11	150	7,500
BS-E-200-160-Plate	200	160	250	13	200	9,550
BS-E-250-200-Plate	250	200	315	13	250	15,250
BS-E-315-250-Plate	315	250	400	15	315	24,350

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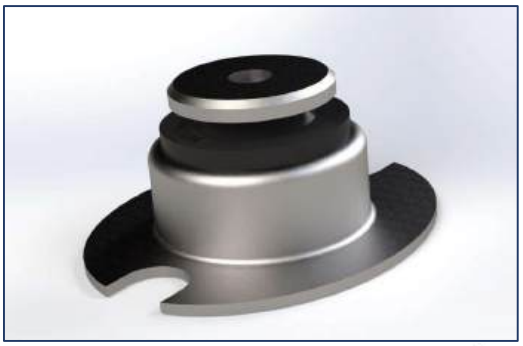
AVMR's Premium Pedestal Mount Range – Lightweight Applications

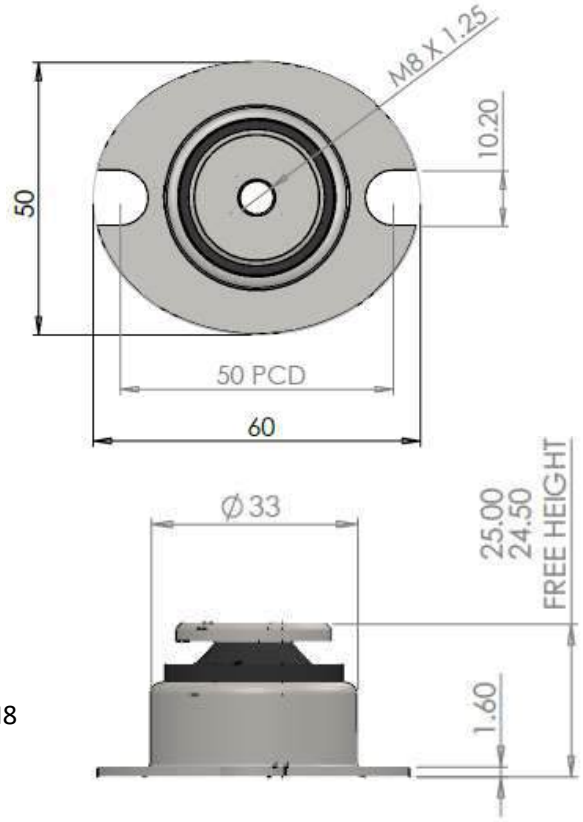
High Deflection Pedestal Mount – 25 Series



- High strength mild steel body
- Failsafe structure
- Easily recycled metal elements of product
- Highly effective vibration absorption due to high deflection rubber element
- High tolerance to lateral loads, can be used in shear.
- Typical uses: heat pumps, air conditioning units, generators, motors ducting
- Manufactured in the UK by AVMR

Compression Data

High Deflection Pedestal Mount – 25 Series				
	Recommended Load (kg)		Absorption at max load	
	Min	Max	25 Hz	50 Hz
Type 2	5	10	75%	95%
Type 3	10	18	75%	95%
Type 4	15	25	75%	95%
Type 5	20	35	75%	95%
Type 6	25	40	65%	90%



Dimensions in mm

Installation and Maintenance Instructions:

- Ensure the base of the mount is installed on a smooth, flat surface.
- The base is designed to be secured using M10 bolt.
- The vibrating load is designed to be secured using a single M8 thread.
- The female M8 thread will accept up to 11mm into the mount.
- We recommend annual inspection of these products. Replace if the rubber is perishing or if any metal elements are damaged.

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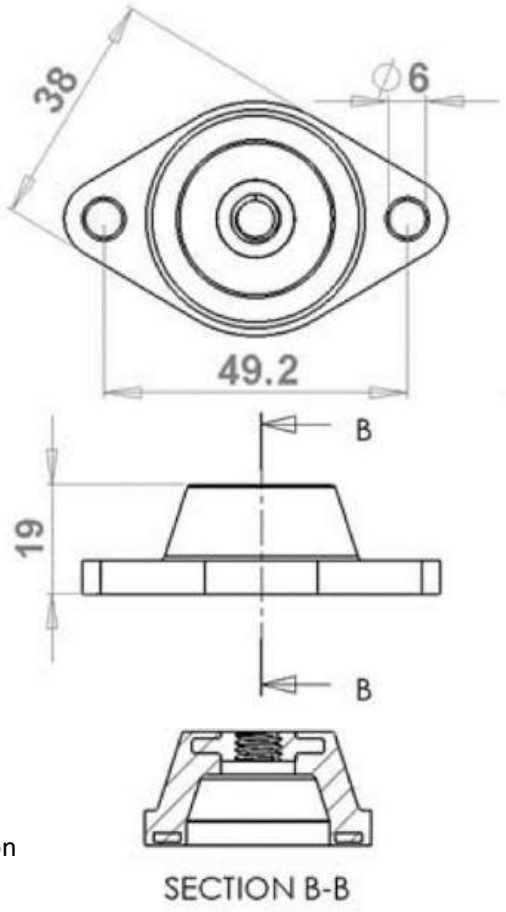
High Deflection Pedestal Mount – PM Series

- Very high deflection and lightweight mount
- Highly effective vibration absorption due to high deflection rubber element.
- High tolerance to lateral loads, can be used in shear.
- Typical uses: heat pumps, air conditioning units, generators, motors, ducting, pumps.
- If using this on Unistrut or an uneven surface, please contact us for an important additional requirement.
- Manufactured in the UK by AVMR

Compression Data

High Deflection Pedestal Mount – PM Series				
	Recommended Load (kg)		Absorption at max load	
	Min	Max	25 Hz	50 Hz
Type 1	5	15	85%	95% +
Type 2	10	20	85%	95% +
Type 3	17	30	85%	95% +
Type 4	18	40	85%	95% +
Type 5	32	60	85%	95% +



Installation and Maintenance Instructions:

- Ensure the base of the mount is installed on a smooth, flat surface.
- The base is designed to be secured using M6 bolt.
- The vibrating load is designed to be secured using a single M8 thread.
- The M8 thread should not be more than 10mm long to prevent the end of the thread fouling the ground.
- Ensure that the M8 penny washer (supplied) is placed directly on the top surface to 'work' the mount evenly.
- We recommend annual inspection of this products. Replace if the rubber is perishing or if any metal elements are damaged.

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AVMR's Premium Pedestal Mount Range – Medium to Heavy Duty

Overview

- Solid rubber with integrally bonded mounting plates.
- Effective vibration absorption control due to tight tolerance and rubber compound quality used.
- High tolerance to lateral loads, can be used in shear (divide given compression loads by 6 for use in shear)
- Typical uses: heat pumps, air conditioning units, generators, engines, motors, pumps, machine tools
- Alternative rubber and metal substrates available as options.
- Alternative options can be used together where different loads are present. This can help reduce natural frequency variation.
- Spring rate tolerances:
  - Typical industry rates: +/-20%
  - **AVMR's premium mounts: +/-15%**
  - Commodity grade products: +/- 60%
- Manufactured in the UK by AVMR

Materials and options:

- Rubber: Natural Rubber (Polyisoprene). Common options include: EPDM, Nitrile (NBR) and Neoprene (CR)
  - Note: We would recommend alternative rubber compounds are tested for precise deflection data.
- Metals: Mild Steel. Common options include Stainless Steel, Aluminum, although other options are available.
- Plating: Sherardize or Green coat typically used. Options (incl. unplated) are available and can be discussed.

Installation and Maintenance Instructions:

- Ensure the base of the mount is installed on a smooth, flat surface.
- Integrated substrates should be 80%+ covered by the load.
- We recommend annual inspection of this products. Replace if the rubber is perishing or if any metal elements are damaged.
- All compression to the mount should be through the plates, not through the threads. Any height adjustment should use shims or plates on the bonded plate.
- The base plate can be tack welded into place or placed on an anti-skid mat as an alternative to bolting into place.

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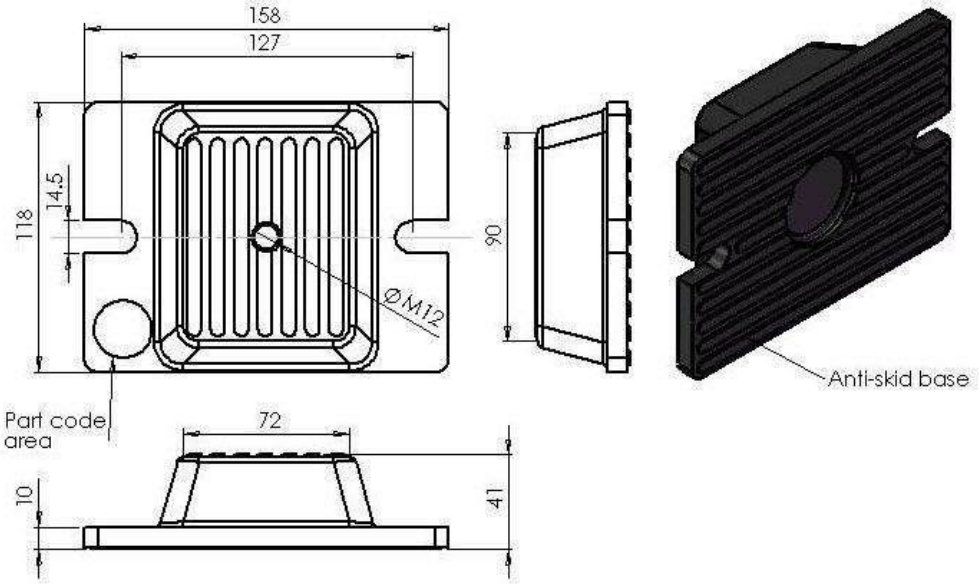
Premium Pedestal Mount – R4 mounts

These encapsulated mounts are designed to work in harsher environments. Therefore, these products in highly weatherproof and hydrocarbon resistant compounds.

Standard products have an M12 thread and EPDM. Variants include:

- M20 thread
- Nitrile rather than the standard Neoprene rubber compound. This offers addition hydrocarbon resistance.
- Alternate compounds can manage loads of up to 1500kg.



R4 Mounts				
	Recommended Load (kg)		Absorption at max load	
	Min	Max	25 Hz	50 Hz
Type 3	200	500	85% +	95% +
Type 4	500	800	85% +	95% +
Type 5	800	1100	85% +	95% +

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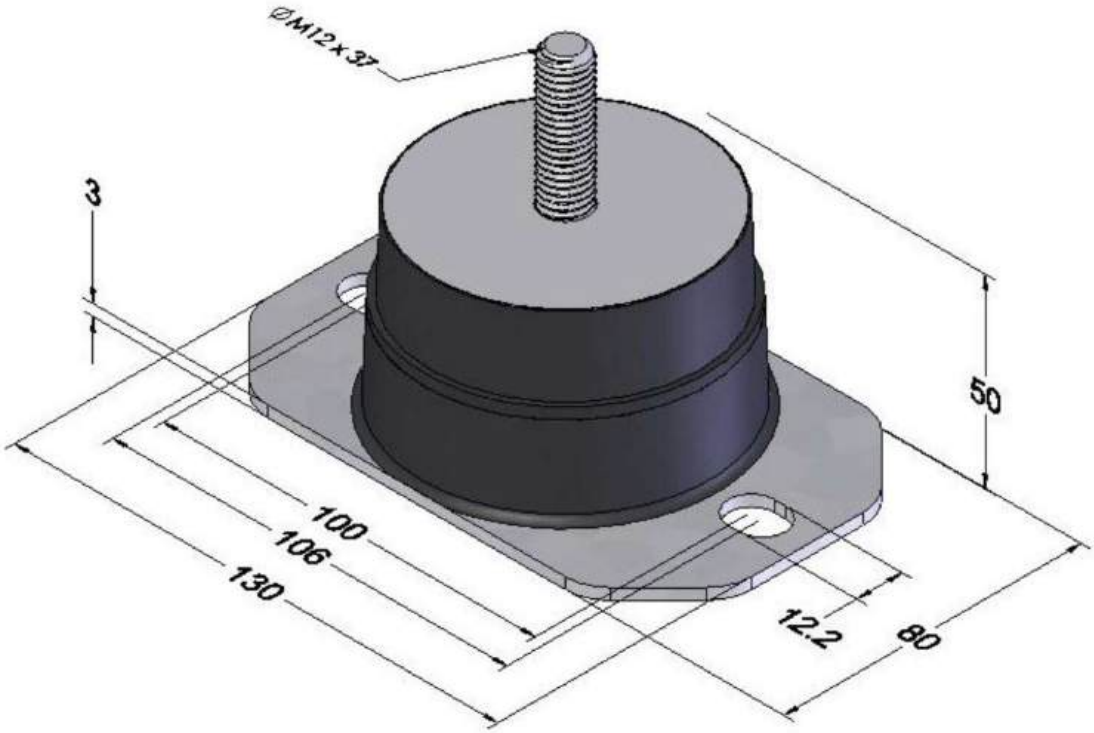
AVMR Anti Vibration Methods

Premium Pedestal Mount – 8050 range

8050 Variants:

- 8050 SP: As pictured with a male M12 thread (M12 x 1.75).
- 8050 FP: With a female M12 thread instead of the male M12 thread.
- This range is stocked with M12 male thread but alternative threads can be manufactured



8050 Pedestal Mount - Compression data				
	Recommended Load (kg)		Absorption at max load	
	Min	Max	25 Hz	50 Hz
Type 2	50	100	85%	95% +
Type 4	75	150	85%	95% +
Type 6	120	225	85%	95% +
Type 8	160	325	85%	95% +
Type 10	250	500	85%	95% +
Type 12	300	600	85%	95% +

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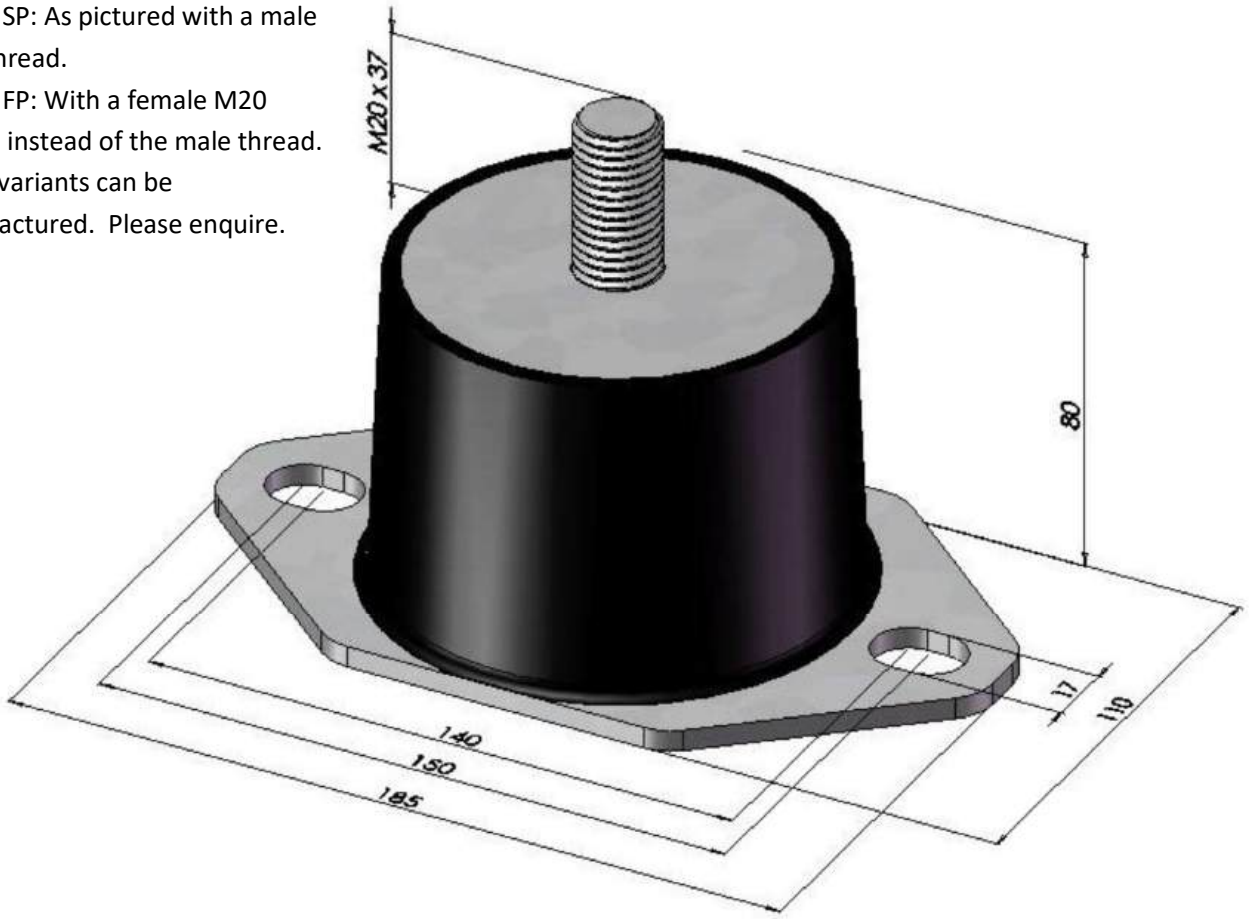
Premium Pedestal Mount – 10080 range

10080 Variants:

- 10080 SP: As pictured with a male M20 thread.
- 10080 FP: With a female M20 thread instead of the male thread.
- Other variants can be manufactured. Please enquire.



10080 Pedestal Mount - Compression data				
	Recommended Load (kg)		Absorption at max load	
	Min	Max	25 Hz	50 Hz
Type 2	90	175	90% +	95% +
Type 3	140	275	90% +	95% +
Type 4	240	475	90% +	95% +
Type 5	340	650	90% +	95% +

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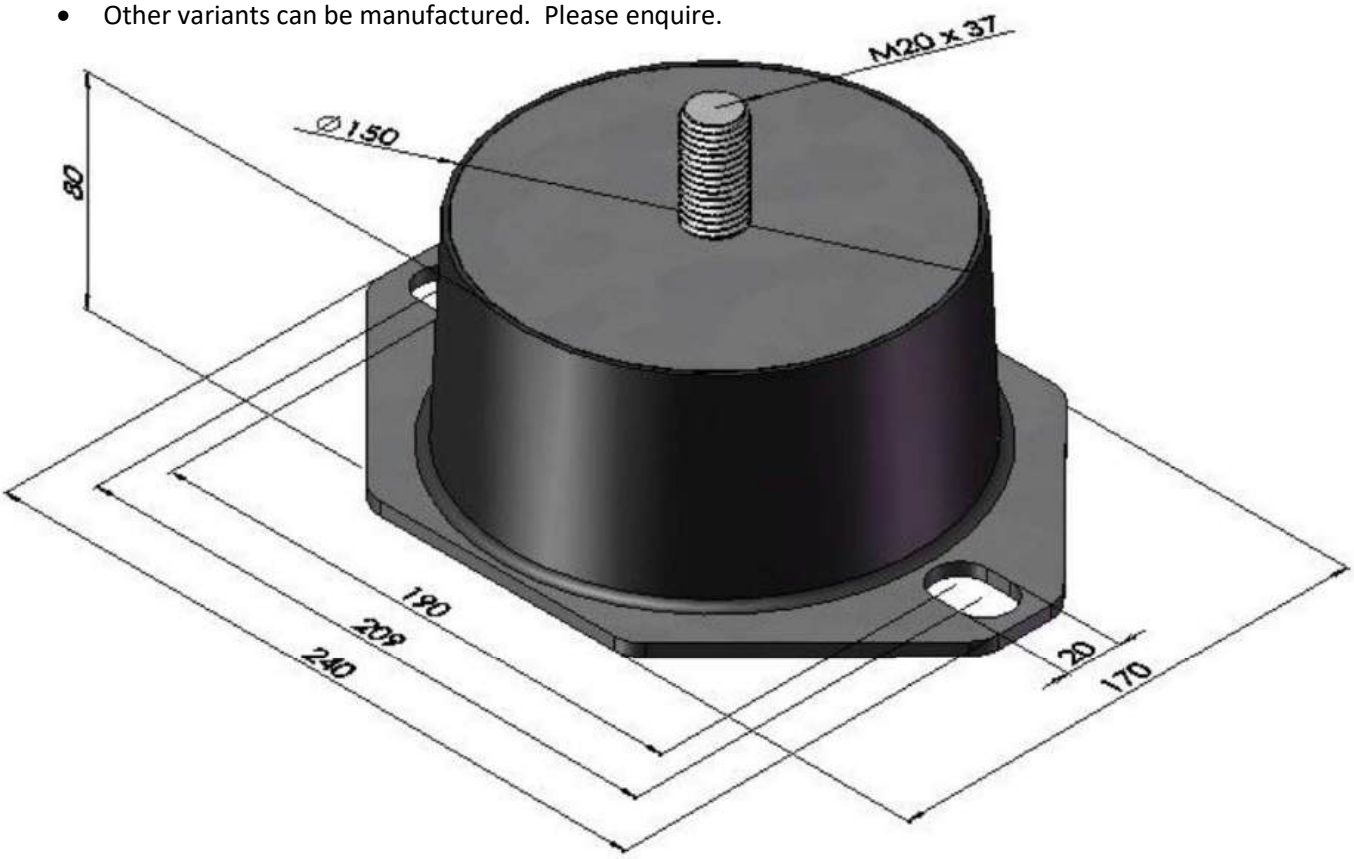
Premium Pedestal Mount – 15080 range

15080 Variants:

- 15080 SP: As pictured with a male M20 thread.
- 15080 FP: With a female M20 thread instead of the male thread.
- Other variants can be manufactured. Please enquire.



15080 Pedestal Mount - Compression data				
	Recommended Load (kg)		Absorption at max load	
	Min	Max	25 Hz	50 Hz
Type 2	350	650	90% +	95% +
Type 3	650	1250	90% +	95% +
Type 4	700	1400	90% +	95% +
Type 5	900	1650	90% +	95% +

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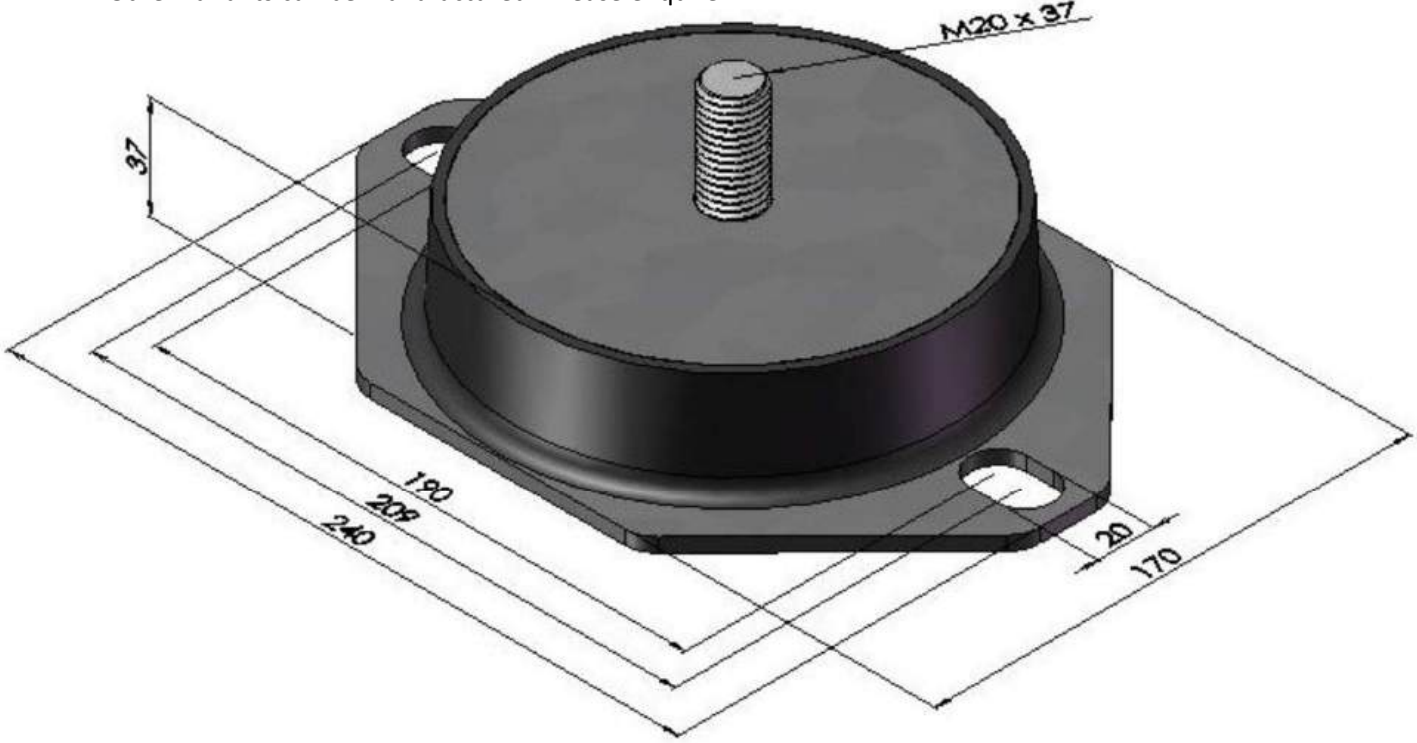
Premium Pedestal Mount – 15040 range

15040 Variants:

- 15040 SP: As pictured with a male M20 thread.
- There is no female version of this product due to the lack of height.
- Other variants can be manufactured. Please enquire.



15040 Pedestal Mount - Compression data				
	Recommended Load (kg)		Absorption at max load	
	Min	Max	25 Hz	50 Hz
Type 2	350	650	85% +	95% +
Type 3	650	1250	85% +	95% +
Type 4	700	1400	85% +	95% +
Type 5	900	1700	85% +	95% +

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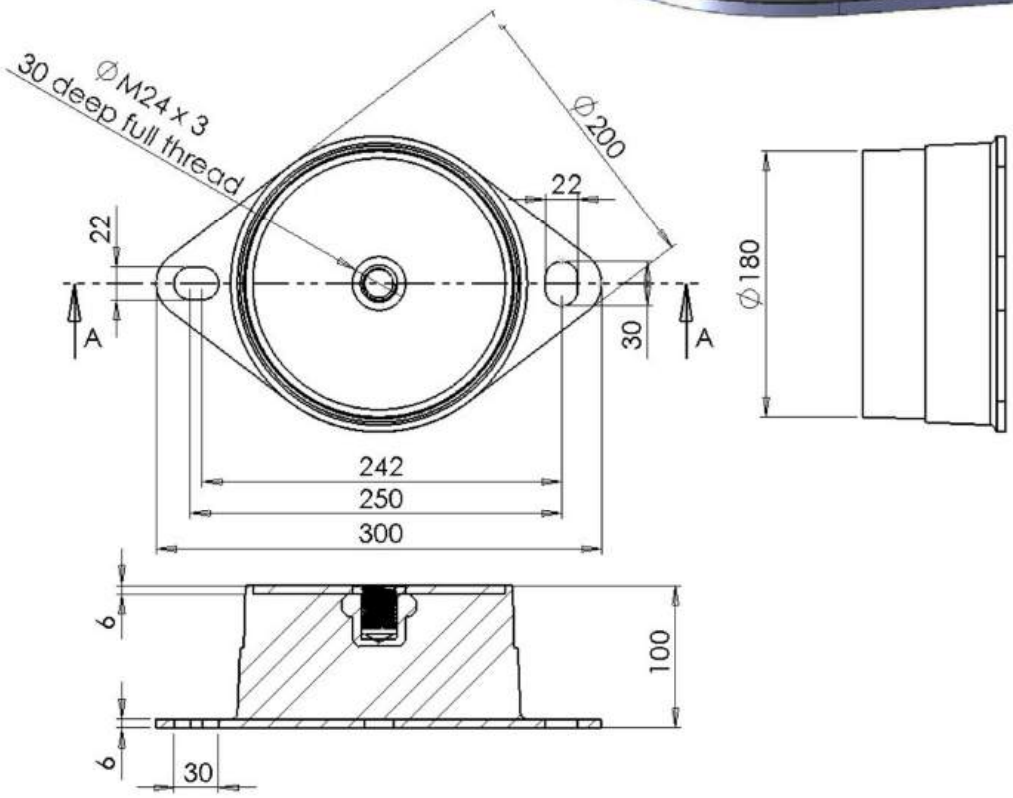
Premium Pedestal Mount – 180100 range

We can manufacture a wider variety of load ratings for this mount however, to date only the below have been required by our current markets.

180100 Variants:

- Other variants can be manufactured. Please enquire.



180100 Pedestal Mount - Compression data				
	Recommended Load (kg)		Absorption at max load	
	Min	Max	25 Hz	50 Hz
Type 3	1000	1750	95% +	95% +
Type 4	1100	2100	95% +	95% +
Type 5	1300	2500	95% +	95% +
Type 10	2500	5000	95% +	95% +

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Defence Pedestal Mounts – Lightweight

AAD Lightweight Defence Grade Pedestal Mounts

The AAD Lightweight Pedestal mount is the baby of the AA mount family (the rest of the family are on the next page). Therefore, it shares the same benefits, including:

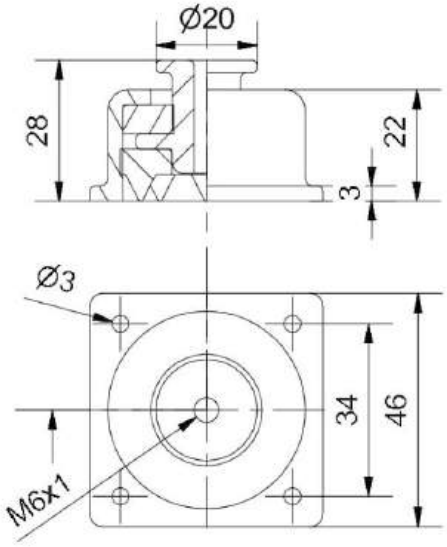
- It is inherently failsafe in its design (excl. fire and shock events) due to the Aluminium casing
- It does not rely on bonding, so rubber parts are easily replaced if required.
- Lightweight loads: 1 – 10kg
- Designed for use in compression, but can work in tension and tolerate some lateral movement.

Due to the small size of these mounts, deflection levels are relatively low meaning that they are best suited to higher frequency applications. Feel free to drop us a line regarding product selection.

Product	Load Range (daN)		Deflection	
	Min	Max	Min	Max
Ped-V-AAD-AS	1	5	0.1	0.9
Ped-V-AAD-N	5	10	0.6	1.4
Deflection in mm and given at Min/Max loads				

Dimensions in mm

1 daN = 0.981 kg on the earth's surface



Materials:

- The rubber is an elastomer
- The metal elements are aluminium, which can be galvanised to meet MIL-STD-202 method 101.

Typical uses:

- Instrumentation
- Electrical appliances
- Electronics
- Small high frequency pumps

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Defence Pedestal Mounts

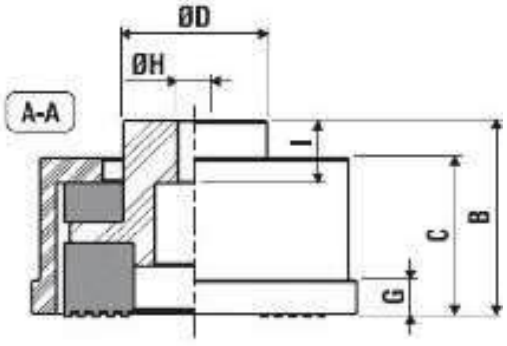
AA Defence Grade Pedestal Mounts

The AA mount is a highly capable and failsafe vibration mount.

Whilst it is designed and tested in compression, it offers some capabilities in tension and can tolerate some shear force, although these are small compared to its capabilities in compression.

Key benefits of this mount include:

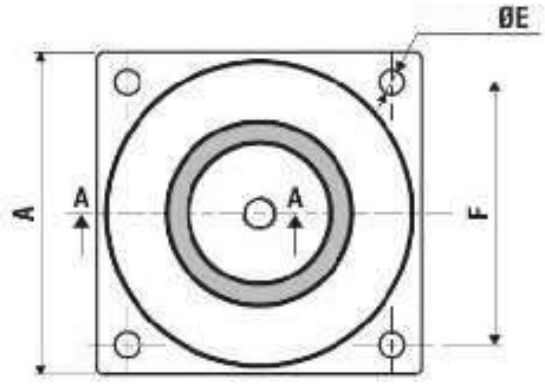
- The wide range of sizes available range from 10kg to 9,000Kg of static load.
- It is inherently failsafe in its design (excl. fire and shock events) due to the Aluminium casing
- It does not rely on bonding, so rubber parts are easily replaced if required.



If required, this mount is available with a galvanic treatment which makes it compliant with MIL-STD-202 method 1.

Typical uses include:

- Engines
- Pumps
- Air Conditioning units
- Fans
- Generators
- Centrifuges
- Electrical appliances



For a list of the products, dimensions for the technical drawing, along with static deflection data, please see the next page.

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AA Defence Grade Pedestal Mounts (continued)

Dimensions in mm

1 daN = 0.981 kg on the earth's surface

Product	Load Range (daN)		Deflection		A	B	C	D (Dia)	E (Dia)	F	G	H	I
	Min	Max	Min	Max									
Ped-V-AA-20-AS	10	15	0.6	1.1	46	28	22	20	3	34	3	M6	22
Ped-V-AA-20-N	20	30	1.2	2.3									
Ped-V-AA-20-R	30	50	1.3	2.7									
Ped-V-AA-30-AS	15	25	0.6	1.0	54	36	27	23	5.5	42	5.5	M8	16
Ped-V-AA-30-N	30	50	0.6	1.1									
Ped-V-AA-30-R	50	100	0.3	0.6									
Ped-V-AA-50-AS	25	50	1.0	2.0	65	48	35	30	6	52	8	M10	20
Ped-V-AA-50-N	50	100	1.0	2.4									
Ped-V-AA-50-R	100	200	1.0	2.5									
Ped-V-AA-100-AS	50	100	0.9	2.5	80	54	44	26	6.5	67	10	M12	25
Ped-V-AA-100-N	100	200	0.7	2.5									
Ped-V-AA-100-R	200	300	0.9	1.6									
Ped-V-AA-200-AS	100	150	1.5	2.8	108	72	56	39	8.5	90	10	M12	25
Ped-V-AA-200-N	200	300	1.7	3.1									
Ped-V-AA-200-R	300	400	1.1	1.6									
Ped-V-AA-300-AS	150	200	1.7	2.2	136	81	65	60	10.5	109	14	M14	25
Ped-V-AA-300-N	300	400	2.2	2.7									
Ped-V-AA-300-R	400	600	1.7	2.8									
Ped-V-AA-400-AS	200	300	2.5	3.7	155	93	75	65	12.5	125	14	M14	25
Ped-V-AA-400-N	400	600	3.0	4.7									
Ped-V-AA-400-R	600	800	2.7	3.5									
Ped-V-AA-600-AS	300	400	4.3	5.5	175	95	74	70	15.5	140	15	M16	27
Ped-V-AA-600-N	600	800	4.7	6.2									
Ped-V-AA-600-R	800	1000	3.4	4.2									
Ped-V-AA-800-AS	400	500	3.7	5.0	185	118	94	75	16.5	150	16	M18	40
Ped-V-AA-800-N	800	1000	6.5	8.2									
Ped-V-AA-800-R	1000	1500	3.8	6.5									
Ped-V-AA-1000-AS	500	750	5.5	9.0	205	148	116	100	17.5	164	20	M20	36
Ped-V-AA-1000-N	1000	1500	7.5	13.0									
Ped-V-AA-1000-R	1500	2000	5.7	8.0									
Ped-V-AA-1500-AS	750	1000	6.0	8.2	220	148	121	80	17.5	182	20	M20	55
Ped-V-AA-1500-N	1500	2000	8.5	11.5									
Ped-V-AA-1500-R	2000	4000	7.0	10.0									
Ped-V-AA-2000-AS	1000	2000	8.0	13.0	255	162	139	106	22	204	21	M36	115
Ped-V-AA-2000-N	2000	4000	12.0	17.0									
Ped-V-AA-2000-R	4000	6000	12.5	16.0									
Ped-V-AA-4000-AS	2000	4000	-	-	310	157	130	128	27	255	22	M42	59
Ped-V-AA-4000-N	4000	6000	-	-									
Ped-V-AA-4000-R	6000	9000	-	-									

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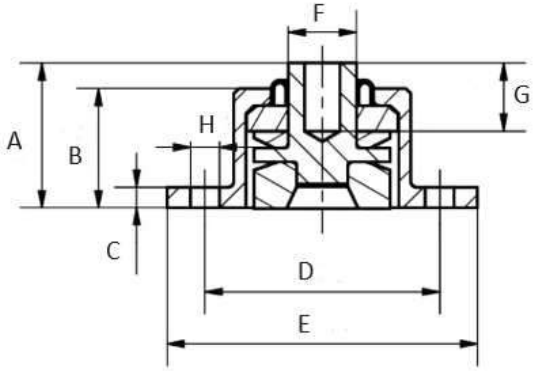
MM Defence Grade Pedestal Mounts

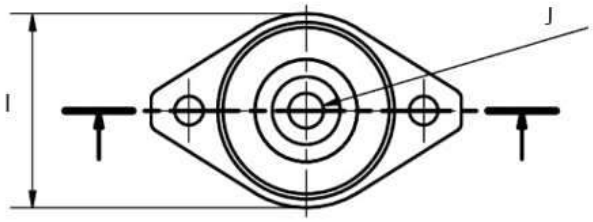
Like the MMC mount (the next product) the MM mount is a particularly impressive support and used by the Italian Navy.

This MM mount is an anti-shock and anti-vibration mount, designed to work in compression, but it does have capabilities in tension too, and can tolerate lateral vibrations too.

Key points:

- Tested according to MIL-STD-810/D with shock loads up to 40g x 11 milliseconds, 3 shocks per direction. No evidence of failure was present after tests.
- Sheltered rubber helps protect it from environmental degradation.
- Failsafe design (excl. fire)
- Materials:
  - Stainless Steel (316)
  - Nitrile elastomer
- Many civilian and defence applications including Engines, Pumps, Fans





NATO stock numbers:

- Ped-V-MM30: 5340 15 142 2375
- Ped-V-MM-50: 5340 15 142 2376
- Ped-V-MM-100: 5340 15 142 2377
- Ped-V-MM-200: 5340 15 142 2378

Product - Large Size	Load Range (daN)		Deflection (mm)		Natural Frequency (Hz)		Static Stiffness (daN/mm)		Dynamic Resonance (Hz)		Dynamic Stiffness (daN/mm)		A	B	C	D	E	F (Dia)	G	H (Dia)	I	J
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max										
Ped-V-MM-30	30	50	4.0	5.0	8.0	7.0	7.5	10	10	9	12	16	40	33	5	72	92	18	18	8.2	55	M10 x 1.5
Ped-V-MM-50	50	100	3.5	5.5	8.5	6.5	14	18	9	7	16	20	50	42	6	94	122	20	25	10.5	77	M12 x 1.75
Ped-V-MM-100	100	200	4.6	6.5	7.5	6.0	22	30	8	6	25	29	75	60	10	120	156	25	30	15	95	M16 x 2
Ped-V-MM-200	200	350	5.0	7.5	7.0	5.5	40	47	7	6	40	51	85	70	12	138	183	40	40	17	114	M24 x 3

For radial loads, divide compressive load by 2.

Dimensions in mm

1 daN = 0.981 kg on the earth's surface

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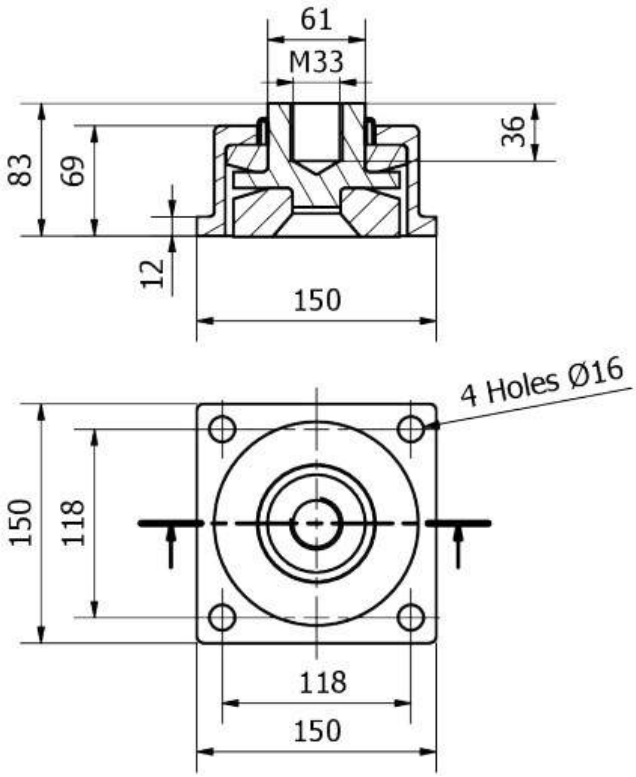
MM Defence Grade Pedestal Mounts - Continued

This is the largest of the MM range of shock mounts, the MM-350.



Product	Load Range (daN)		Deflection (mm)		Natural Frequency (Hz)		Static Stiffness (daN/mm)		Dynamic Resonance (Hz)		Dynamic Stiffness (daN/mm)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Ped-V-MM-350	350	600	6.5	8.0	6	5.5	54	75	7	6	69	85

Dimensions in mm

1 daN = 0.981 kg on the earth's surface

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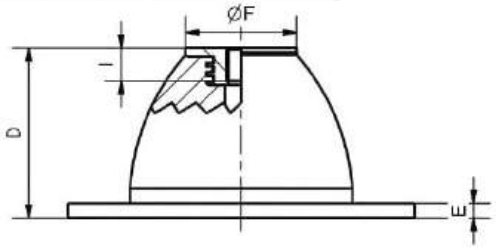
MMC Defence Grade Pedestal Mounts

The MMC Pedestal mount is a very high-performance support, designed for use in compression, and tested by numerous independent houses:

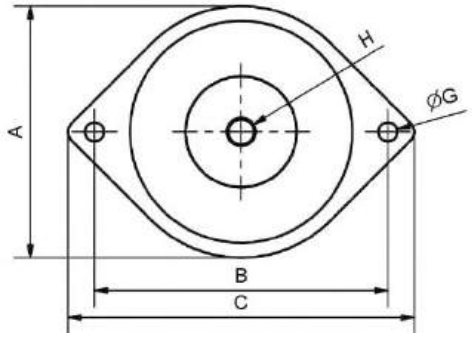
- Vibration fatigue tested to MIL-STD-167-1 (Passed).
- Shock tested to MIL-S-901-D (Annex G), similar to STI-MM-305 (Passed).
- Structural Noise Isolation Test conducted at Italian Ship Research Centre (Passed).
- Compression and Quasi-Static tensile test by dynamometer.

Product	Size	Load Range (daN)		Deflection (mm)		Natural Frequency		Static Stiffness (daN/mm)
		Min	Max	Min	Max	Min	Max	
Ped-V-MMC-S-30	Small	15	30	3.5	6.5	9	6.5	5
Ped-V-MMC-S-50		30	50	4	6.5	8	6	8
Ped-V-MMC-S-80		50	80	3.5	6.5	7.5	6	11
Ped-V-MMC-M-100	Medium	50	100	5.5	10.5	7	5	9.5
Ped-V-MMC-M-160		100	160	5.5	10	6.5	5	17
Ped-V-MMC-M-230		160	230	5	9	7	5.5	28
Ped-V-MMC-M-320		230	320	6	10	6.5	5	35

This product has been specifically designed as an anti-vibration and anti-shock mount for Naval use, although can be used in a wide variety of applications.



Whilst this mount is only sold with a female thread, a threaded bar can be used to convert it to a male thread.



Materials:

- The standard rubber used in Natural (-40°C/+80°C), however NBR is available, on request, for oil exposure.
- The metals are Stainless Steel (304) and completely non-magnetic.

Isolation:

- In compression, this mount offers high attenuation levels and starts isolating from around 10Hz.

Size	A	B	C	D	E	F (Dia)	G (Dia)	H	I	Weight (Kg)
Small	135	160	184	78	8	55	13	M12	15	1.1
Medium	170	195	234	115	10	75	13	M20	20	2.4
Dimensions in mm										

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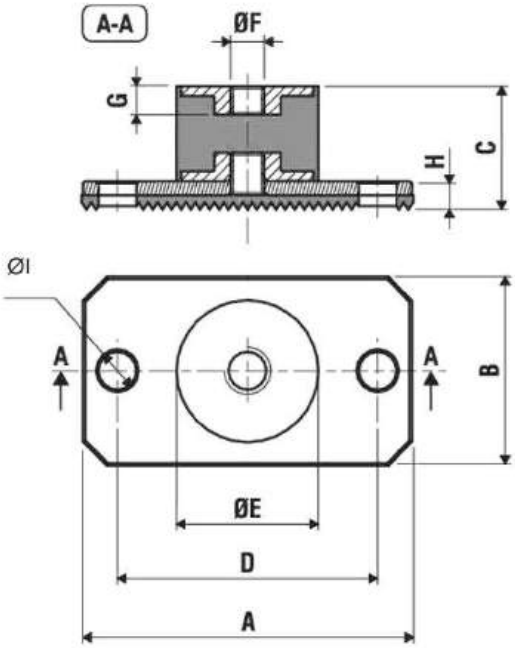
GSA Defence Grade Pedestal Mounts

The GSA mount is an anti-vibration pedestal mount, designed to be used in compression or shear. Due to its design, deflection in compression is not high, so the mount is best suited to higher frequencies.



Other points of interest for this mount include:

- Loads of 10 – 1,000 kg in compression
- Incorporation of anti-skid rubber sheeting on its base, allowing it to be used as a foot rather than pedestal, if required.
- Materials:
  - Natural Rubber
  - Zinc plated steel
- Typically used on:
  - Compressors
  - Pumps
  - Air conditioning
  - Machine tools
  - Engines
  - Electrical appliances
- Can be converted to a male thread by fixing a threaded bar into place.

Dimensions in mm

1 daN = 0.981 kg on the earth's surface

Product	Load Range (daN)		A	B	C	D	E (Dia)	F (Dia)	G	H	I (Dia)
	Min	Max									
Ped-V-GSA-1-AS	10	25	50	25	26	38	20	M6	6	6	6
Ped-V-GSA-1-N	20	30									
Ped-V-GSA-2-AS	25	50	70	40	26	56	30	M8	6	6	8
Ped-V-GSA-2-N	50	80									
Ped-V-GSA-3-AS	50	100	85	50	35	70	40	M8	10	6	8
Ped-V-GSA-3-N	100	150									
Ped-V-GSA-4-AS	100	150	110	60	35	90	50	M10	10	6	10
Ped-V-GSA-4-N	150	275									
Ped-V-GSA-5-AS	150	350	140	80	56	120	75	M12	13	6	12
Ped-V-GSA-5-N	350	465									
Ped-V-GSA-6-AS	350	600	200	100	58	160	100	M16	16	6	16
Ped-V-GSA-6-N	465	1000									

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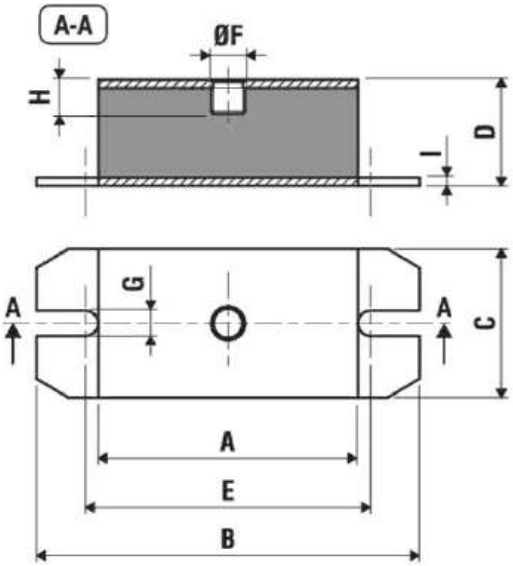
Flexobloc Defence Grade Pedestal Mounts – Medium Size

Medium

The Flexobloc mount is an anti-vibration pedestal mount, designed to be used in compression or shear.

Key points of interest for this mount include:

- Loads of 50 – 1,000 kg in compression
- Relatively low profile
- Materials:
  - Polyisoprene
  - Zinc plated steel
- Typically used on:
  - Compressors
  - Pumps
  - Air conditioning
  - Fans
  - Machine tools
  - Engines
  - Electrical appliances
- Can be converted to a male thread by fixing a threaded bar into place.



Product - Medium Size	Load Range (daN)		Deflection		A	B	C	D	E	F	G (Dia)	H	I
	Min	Max	Min	Max									
Ped-V-FX-0-50	50	100	1.7	3.2	85	135	35	40	110	M10	10	12	3
Ped-V-FX-0-60	100	150	2.2	3.3									
Ped-V-FX-0-70	150	200	1.8	2.3									
Ped-V-FX-1-50	200	300	3.0	4.5	120	178	70	50	135	M14	12	15	4
Ped-V-FX-1-60	300	400	2.8	3.8									
Ped-V-FX-1-70	400	500	3.2	4.0									
Ped-V-FX-2-50	500	600	5.6	6.7	120	178	70	50	135	M14	12	18	4
Ped-V-FX-2-60	600	800	5.1	6.7									
Ped-V-FX-2-70	800	1000	4.2	5.2									

Dimensions in mm

1 daN = 0.981 kg on the earth's surface

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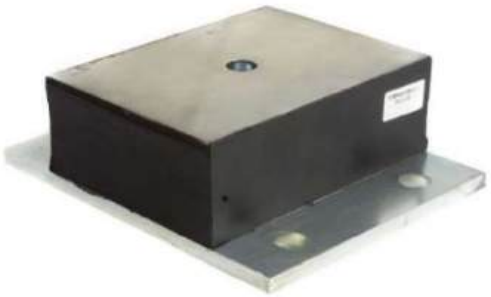
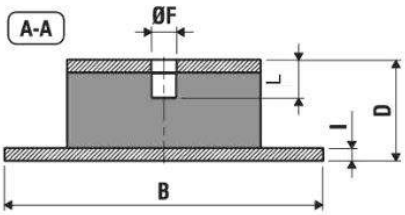
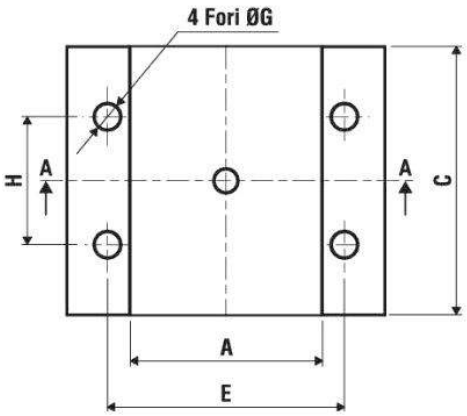
Flexobloc Defence Grade Pedestal Mounts – Heavy Duty



Large





This Heavy Duty Flexobloc mount part of the same Flexobloc product on the previous page.

Although it has a slightly different design to the medium size product, it has the same materials and typical uses.

Key differentiating points compared to the medium mount include:

- Loads of 50 – 1,000 kg in compression
- 4 x locating holes rather than two slots.

Product - Large Size	Load Range (daN)		Deflection		A	B	C	D	E	F	G (Dia)	H	I	L (Dia)
	Min	Max	Min	Max										
Ped-V-FX-3-50	1000	2000	3.2	6.7	150	250	200	76	200	M18	20	116	10	27
Ped-V-FX-3-60	2000	3000	4.7	7.2										
Ped-V-FX-3-70	3000	4000	6.0	8.2										
Ped-V-FX-4-50	4000	5000	6.2	7.5	250	350	200	80	300	M24	20	120	10	28
Ped-V-FX-4-60	5000	7000	4.8	6.7										
Ped-V-FX-4-70	7000	9000	5.5	6.7										

Dimensions in mm

1 daN = 0.981 kg on the earth's surface

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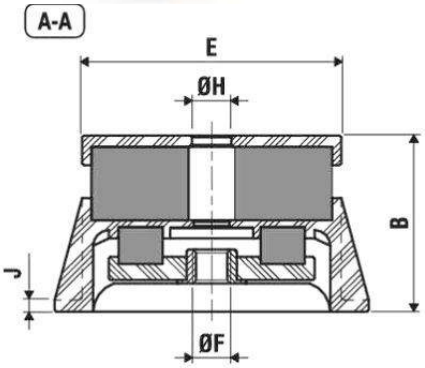
TSZ Defence Grade Pedestal Mounts – Heavy Duty

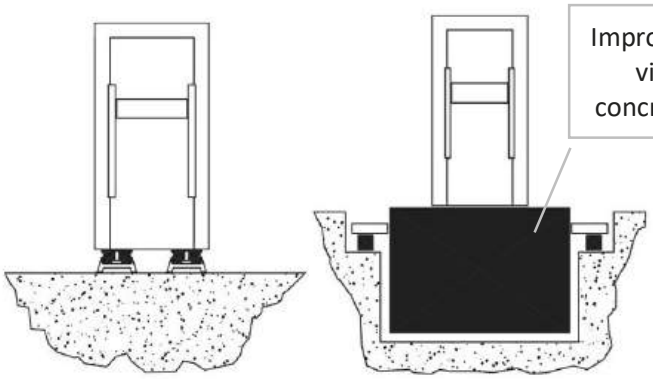
This Heavy-Duty TSZ pedestal mount, designed to be used in compression.

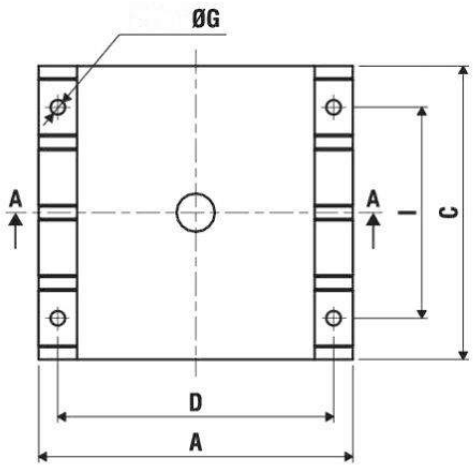
Key points of interest for this mount include:

- Loads of 2,000 – 35,000 daN in compression
- Failsafe design – theoretical destruction of the rubber does not result in detachment of the load.
- Rubber is shielded from a level of environmental attack by the structure of the mount.
- Materials: Polyisoprene & Aluminium or painted steel
- Typical uses include Power hammers, Crushers, Large Compressors & Pumps
- Can be converted to a male thread by fixing a threaded bar into place.



Installation typically through standard loading or floating plinth:





Product	Load Range (daN)		Deflection		A	B	C	D	E	F	G (Dia)	H (Dia)	I	J
	Min	Max	Min	Max										
Ped-V-TSZ-4000-AS	2,000	5,000	3.5	6.0	330	150	232	280	232	M24	18	27	140	15
Ped-V-TSZ-4000-N	5,000	8,000	4.4	6.0										
Ped-V-TSZ-7000-AS	4,000	7,000	6.5	9.5	332	190	337	304	262	M36	20	38	235	15
Ped-V-TSZ-7000-N	7,000	10,000	8.5	11.0										
Ped-V-TSZ-10000-AS	8,000	12,000	6.5	9.0	430	235	435	435	340	M42	22	46	310	20
Ped-V-TSZ-10000-N	12,000	20,000	7.5	11.5										
Ped-V-TSZ-10000-R	20,000	35,000	6.8	10.5										

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Standard Pedestal Mounts

What makes these Standard, rather than Premium?

- In short, control of the rubber compound. When it comes to spring rates:
  - Some products on the market have a +/-60% tolerance
  - Good quality products have +/- 20% tolerance
  - These products typically have +/- 25% tolerance
- The quality of these products is good if you are after a 'low cost' option and do not need precision or highly consistent absorption.
- Our standard range is manufactured by a partner organisation. AVMR have audited the manufacturing processes and conduct some basic quality control measures on these parts.
- Bespoke options for these are limited to high volumes and have

Materials:

- Rubber: Natural Rubber (Polyisoprene)
- Metals: Mild Steel with Zinc.

Installation and Maintenance Instructions:

- Ensure the base of the mount is installed on a smooth, flat surface.
- Integrated substrates should be 80%+ covered by the load.
- We recommend annual inspection of these products. Replace if the rubber is perishing or if any metal elements are damaged.
- All compression to the mount should be through the plates, not through the threads. Any height adjustment should use shims or plates on the bonded plate.
- The base plate can be tack welded into place or placed on an anti-skid mat as an alternative to bolting into place, but ensure hot works stay away from the rubber.

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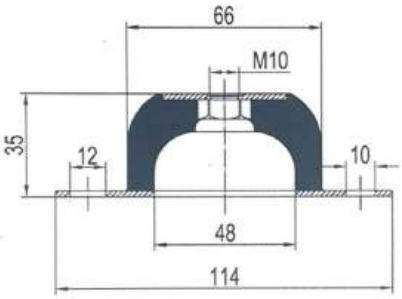
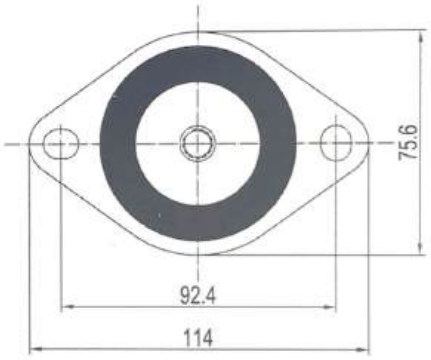
Standard High Deflection Pedestal Mounts

- These mounts have a 'normal' rubber profile – not a low profile. The rubber is designed to work in shear and so will give a high deflection and therefore increased vibration absorption.
- Be Careful: These mounts can also move laterally to a high degree – if you require high levels of lateral stability it might be worth looking at the low profile versions of these mounts (next page)
- We have not quoted absorption rates for these mounts due to the high variation on tolerances.

The smaller variant

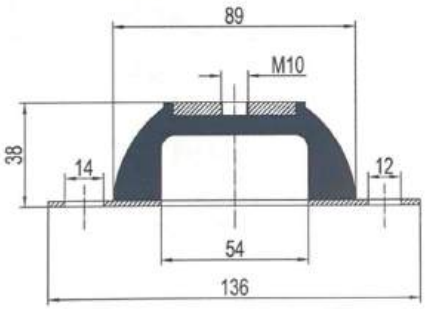
	Recommended Max load (Kgs)
Ped-E-66-35-HD/40	40
Ped-E-66-35-HD/50	65
Ped-E-66-35-HD/60	80

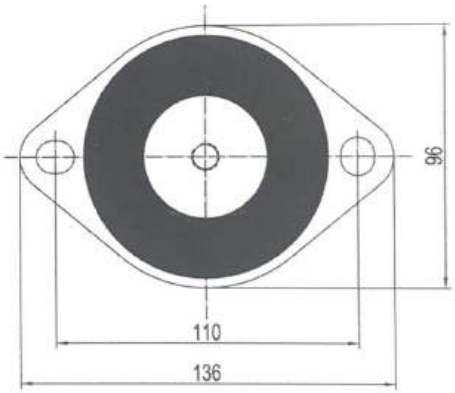




The larger variant

	Recommended Max load (Kgs)
Ped-E-89-38-HD/40	70
Ped-E-89-38-HD/50	130
Ped-E-89-38-HD/60	150





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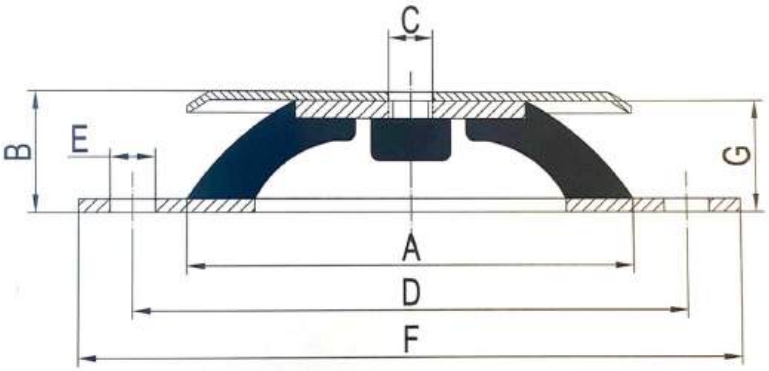
Standard Low-Profile High Deflection Pedestal Mounts

- In the event of overloading, these low-profile mounts have a built-in bump stop, which acts as a shock absorber.
- Low profile mounts have an optional cover to help shield the rubber from oil or swarf which could damage the body of the product.
- Dimension A is the max diameter of the rubber body, which is the same as the width of the metal plate.



								Load Range (Kgs)			Absorption at max load	
	A	B	C	D	E	F	G	Min	Max	Deflection @ Max load	25Hz	50Hz
Ped-E-40-20-HD/45	40	20	M6	52	6.2	64	18	1	4	2	75%	90%
Ped-E-40-20-HD/60	40	20	M6	52	6.2	64	18	2	10	2.5	80%	95%
Ped-E-60-24-HD/45	60	24	M6	76	6.2	90	22	3	15	3	80%	95%
Ped-E-60-24-HD/60	60	24	M6	76	6.2	90	22	6	25	3	80%	95%
Ped-E-60-24-HD/75	60	24	M6	76	6.2	90	22	11	45	3	80%	95%
Ped-E-80-27-HD/45	80	27	M8	100	8.2	120	25	11	45	4.5	90%	95%
Ped-E-80-27-HD/60	80	27	M8	100	8.2	120	25	20	80	4.5	90%	95%
Ped-E-80-27-HD/75	80	27	M8	100	8.2	120	25	30	120	4	80%	95%
Ped-E-100-28-HD/45	100	28	M10	124	10.2	148	25.5	22	90	4	80%	95%
Ped-E-100-28-HD/60	100	28	M10	124	10.2	148	25.5	40	160	4	80%	95%
Ped-E-100-28-HD/75	100	28	M10	124	10.2	148	25.5	50	220	4	80%	95%
Ped-E-150-39-HD/45	150	39	M14	184	12	214	35	150		8	90%	95%
Ped-E-150-39-HD/60	150	39	M14	184	12	214	35	250		7	90%	95%
Ped-E-150-39-HD/75	150	39	M14	184	12	214	35	410		7	90%	95%
Ped-E-200-44-HD/45	200	44	M18	240	14.5	280	40	575		8	90%	95%
Ped-E-200-44-HD/60	200	44	M18	240	14.5	280	40	825		7	90%	95%
Ped-E-200-44-HD/75	200	44	M18	240	14.5	280	40	1450		7	90%	95%

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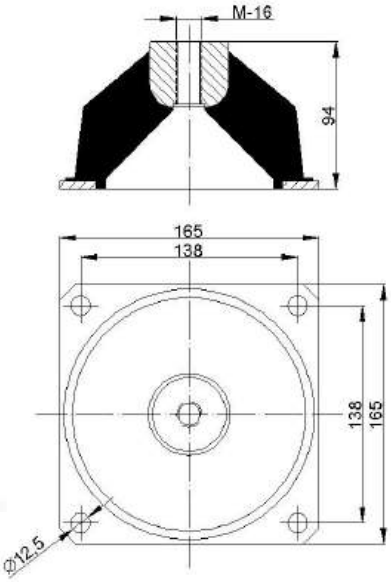
Standard Naval Pedestal Mount

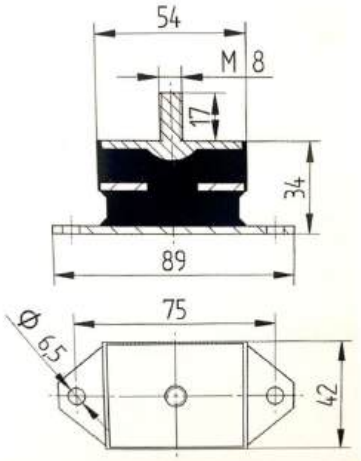
- This mount works in shear and is designed to maintain equivalent levels of isolation if the base tilts to +/-20° - as if it were on a ship.
- We have not quoted absorption rates for these mounts due to the high variation on tolerances.



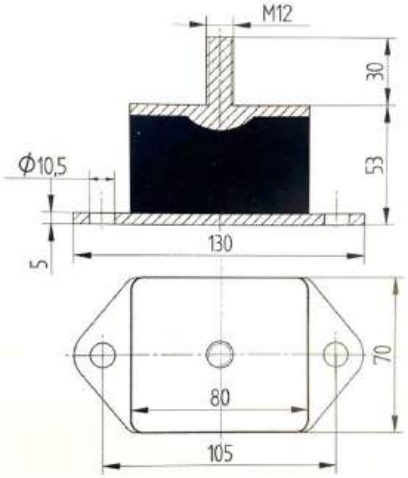
Product	Ped-E-Naval
Max Load	350 Kg

Standard Pedestal Mounts

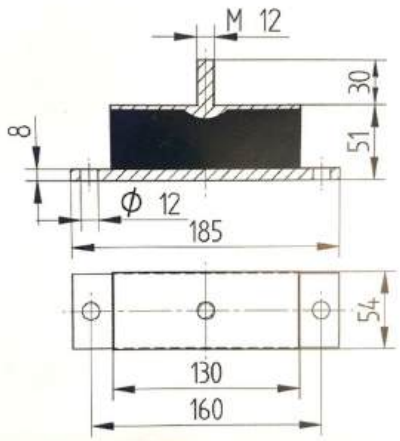
- These 3 mounts have rubber profile that is designed to work in compression rather than shear. As a result, they become hard beyond circa 15% compression.
- These are basic mounts, that work well in basic applications.
- We have not quoted absorption rates for these mounts due to the high variation on tolerances.



Product	Ped-E-54-34
Max Load	200 Kg



Product	Ped-E-80-53
Max Load	600 Kg



Product	Ped-E-130-51
Max Load	600 Kg

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Shear Cap Pedestal Mounts

Overview

Shear Cap mounts are essentially Pedestal mounts, and used as such, but there are a few important differences:

1. The rubber in the mount is worked in semi-shear in Shear Cap mounts, rather than in compression.

   This allows Shear Cap mounts to be much lower profile than an equivalent normal compression-based pedestal mount. In tight spaces, this can help save space e.g. in engine bays on boats.

2. The metal cap helps shield the rubber from some sources of potential environmental attack, like an umbrella e.g. oil dripping on the mount or direct sunlight. Due to this “oil umbrella” these mounts are popular as engine mounts, especially on boats.

3. To a point, if the mount is tilted the rubber will maintain reasonably constant overall spring rate and therefore isolation level, which is another reason it is popular on boats, which rock (in more than one sense).

Defence Grade Shear Cap Pedestal Mounts

This grade of product comes in two formats, depending on their load rating. The following applies to both formats:

- Load Ratings:
  - 50 – 550 daN for the 2-hole format
  - 300 – 2000 daN for the larger 4-hole format
- Materials:
  - Rubber: Natural Rubber
  - Metals: Zinc plated steel
- Construction: Double bonded products which therefore do not rely on mechanical fixtures to hold the metals.
- Typically used on boats (and other applications) as mounts for Engines, Pumps, Compressors, Air-Conditioning units and Fans.

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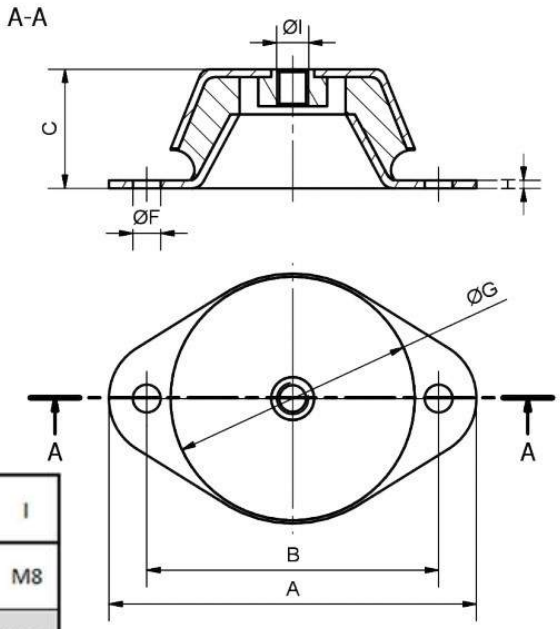
Defence Grade Shear Cap Pedestal Mounts - Small

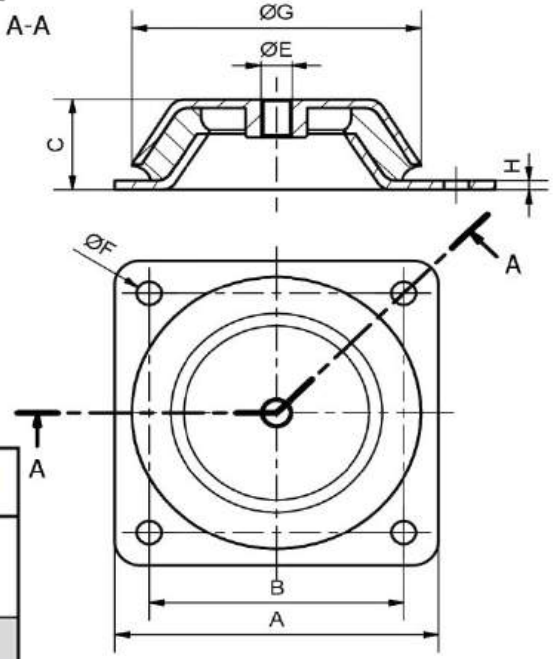


Dimensions are in mm

1 daN is 0.981 kg on the earths surface

Product	Load Range (daN)		A	B	C	F (Dia)	G (Dia)	H	I
	Min	Max							
PedSC-V-VPX-1-AS	25	60	80	68	23	6	48	2	M8
PedSC-V-VPX-1-N	60	95							
PedSC-V-VPX-2-AS	60	125	101	85	30	8.5	62	2	M10
PedSC-V-VPX-2-N	125	200							
PedSC-V-VPX-3-AS	125	300	135	110	44	0 x 14.	92	3	M12
PedSC-V-VPX-3-N	300	550							
PedSC-V-VPX-4-AS	300	400	190	160	49	16	119	4	M16
PedSC-V-VPX-4-N	400	550							

Defence Grade Shear Cap Pedestal Mounts – Large



Dimensions are in mm

1 daN is 0.981 kg on the earth's surface

Product	Load Range (daN)		A	B	C	E (Dia)	F (Dia)	G (Dia)	H
	Min	Max							
PedSC-V-VPQ-1-AS	300	500	168	132	51	M16	13	150	4
PedSC-V-VPQ-1-N	500	800							
PedSC-V-VPQ-1-R	800	1,200							
PedSC-V-VPQ-2-AS	500	750	181	150	63	M20	13	175	4
PedSC-V-VPQ-2-N	750	1,300							
PedSC-V-VPQ-2-R	1,300	2,000							

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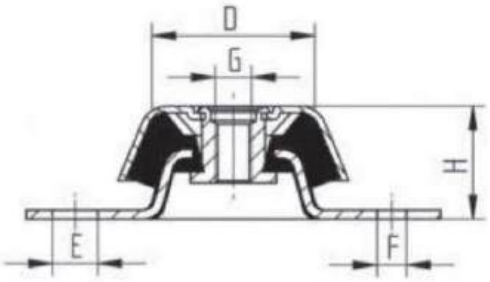
Standard Shear Cap Pedestal Mounts - Longitudinal

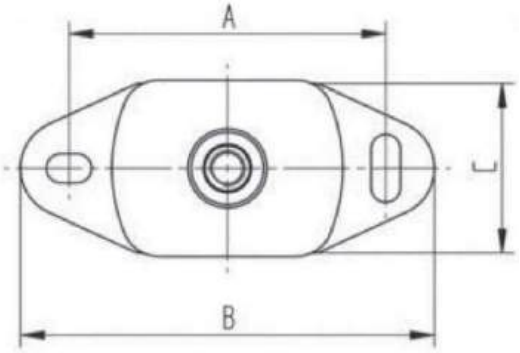
These Standard Shear Cap mounts are designed to be stiffer longitudinally than they are laterally. This is useful when a shear cap mount is required with high stiffness in one direction. This can apply to gearboxes, engines, or motors where movement of equipment in one horizontal direction can result in de-coupling of a shaft.

This stiffer longitudinal spring rate is achieved by additional rubber in the relevant areas of the mount.



Key points for these mounts:

- Load Ratings: 50 – 750 Kgs per mount
- Materials:
  - Rubber: Natural Rubber
  - Metals: Zinc plated steel
    - **Stainless Steel (316)** is an option for most variants.
- Construction: Single bonded
- Failsafe structure: not reliant on the rubber to hold the product together.



Product	Load Rating (Kgs)	A	B	C	D	E (Dia)	F (Dia)	G	H
PedSC-E-60-40-45*	50	100	120	60	60	11 x 14	11 x 14	M12	40
PedSC-E-60-40-55*	65								
PedSC-E-60-40-65*	100								
PedSC-E-75-50-45*	150	140	183	75	75	20 x 13	13 x 30	M16	50
PedSC-E-75-50-55*	200								
PedSC-E-75-50-65*	300								
PedSC-E-75-50-75*	550								
PedSC-E-80-70-65	750	182	230	112	80	25 x 18	18 x 33	M20	70

* Available in Stainless Steel (316). Add "-SS" to end of product number.

Dimensions are in mm

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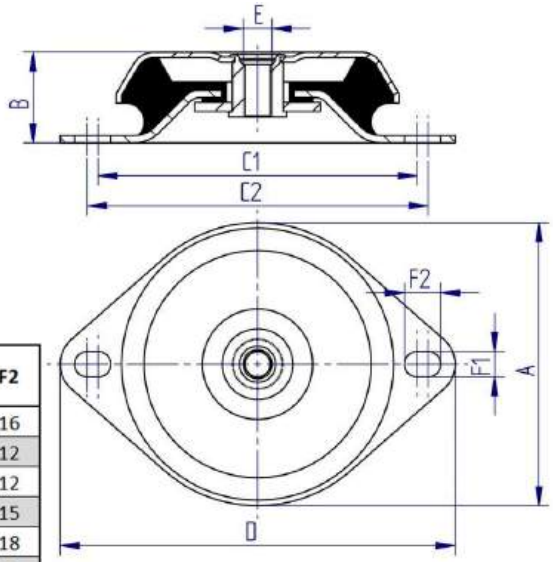
Standard Shear Cap Pedestal Mounts - Failsafe

These Standard Shear Cap mounts are good low-cost options for most applications.

Key points for these mounts:

- Load Ratings: 150 – 2,100 Kgs per mount
- Materials:
  - Rubber: Natural Rubber
  - Metals: Zinc plated steel
- Failsafe structure: not reliant on the rubber to hold the product together.
- Symmetrical horizontal deflection characteristics



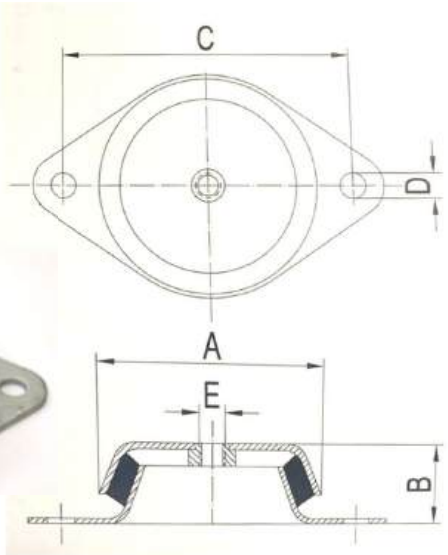
Product	Load Rating (Kgs)	A	B	C1	C2	D	E	F1	F2
PedSC-E-63-34-M10	150	63	34	77	91	110	M10	9	16
PedSC-E-79-30-M10	250	79	30	103	113	130	M10	9	12
PedSC-E-79-30-M12	250	79	30	103	113	130	M12	9	12
PedSC-E-90-37-M12	350	90	37	106	116	135	M12	10	15
PedSC-E-101-38-M12	500	101	38	136	144	175	M12	14	18
PedSC-E-101-38-M16	500	101	38	136	144	175	M16	14	18
PedSC-E-110-42-M16	500	110	42	135	149	175	M16	14	21
PedSC-E-123-42-M16	700	123	42	154	162	192	M16	14	18
PedSC-E-150-46-M16	1,300	150	46	176	188	216	M16	14	20
PedSC-E-150-53-M16	1,300	150	53	176	188	216	M16	14	20
PedSC-E-180-66-M20	2,100	180	66	160	160	190	M20	14	14

Dimensions are in mm

Standard Shear Cap Pedestal Mounts

These mounts are similar to the failsafe versions, above but are double bonded rather than failsafe.

Product	Load Rating (Kgs)	A	B	C	D	E
PedSC-E-50-23	100	50	23	68	6.2	M8
PedSC-E-60-30	200	60	30	85	8.2	M10
PedSC-E-90-45	300	90	45	110	10.2	M12



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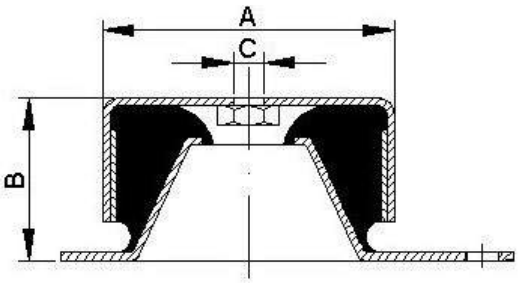
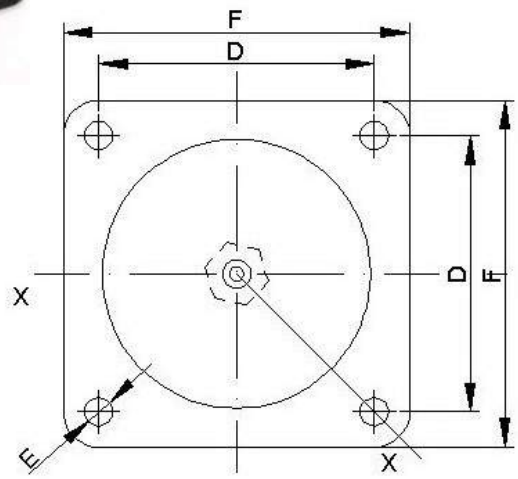
Standard Shear Cap Pedestal Mounts





These Shear Cap Pedestal mounts are designed to offer good vibration absorption in compression (vertical) whilst withstanding high lateral loads. As a result, it is particularly useful when a high degree of later (horizontal) alignment must be maintained under vibrating equipment. Examples include interfaces into clutches or gearboxes. This is similar to the "Standard Shear Cap Pedestal Mounts – Longitudinal" supports, however in this case the lateral support is in both lateral directions.

An alternative base is available for this product, which has only two mounting locations in the base plate, however this is not recommended.

Materials are zinc coated steel and natural rubber.

Product	Load (Kgs)	Deflection @ Load	A	B	C	D	E	F
PedSC-E-50-30-45	70	3.5	50	30	M8	50	7	68
PedSC-E-50-30-60	105	3.5						
PedSC-E-50-30-75	140	3.5						
PedSC-E-74-42-45	95	4	75	42	M10	72	9	90
PedSC-E-74-42-60	165	3.5						
PedSC-E-74-42-75	260	3						
PedSC-E-92-53-45	175	5	92	53	M12	90	11	114
PedSC-E-92-53-60	265	4						
PedSC-E-92-53-75	415	3.5						
PedSC-E-124-75-45	360	6	124	75	M16	114	13	144
PedSC-E-124-75-60	600	6						
PedSC-E-124-75-75	1,000	5						

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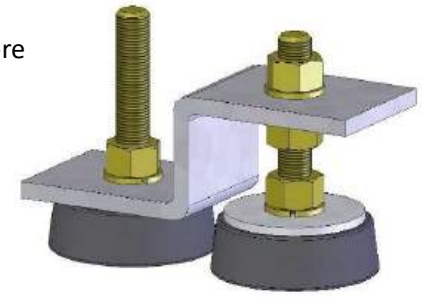
Machine Feet

Machine Feet typically differ from bump stops in a few ways:

1. They are usually designed to be adjustable in height, which requires a more substantial plate within the product. This allows them to be used for levelling the machine (to a point) should the ground be uneven.
2. They are often lower profile than bump stops which constrains lateral movement. Should this be an issue, a Pedestal mount might be a better option, as it can be fixed to the floor.



An example of how machine feet are used for levelling.

Feet are designed to be free-standing, if adjustment is required, this should be via a 3-nut system, as per the image (one at the base of the foot thread, the other two providing height adjustment and clamping).

Machine feet are typically used on small machines, conveyors, free standing power packs, generators and pumps.

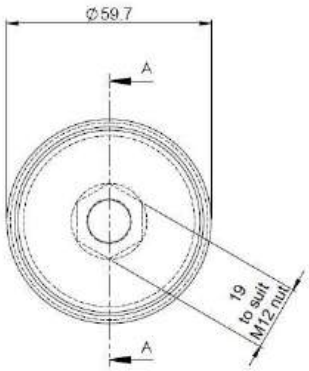
NOTE: most machine feet use Natural Rubber, if your requirement is likely to regularly sit in oil, please select a nitrile option. Should you require something a little different, please contact us.

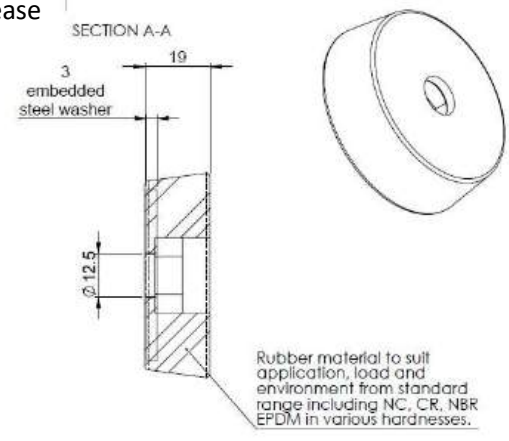
Premium Machine Foot - Bolt-free

This Pad-Only option allows the customer to select their own bolt length, which is particularly useful if a specific length of thread is required. The NBR version comes with oil resistant Nitrile rubber. The bonded metal washer is a robust 3mm thick, and made from plated mild steel.

Alternative load ratings and compounds can be easily manufactured – please contact us if required.

Product	Rubber	Load (Kgs)
FT-60-19/3	Natural	150 - 250
FT-60-10/4NBR	Nitrile	150 - 250





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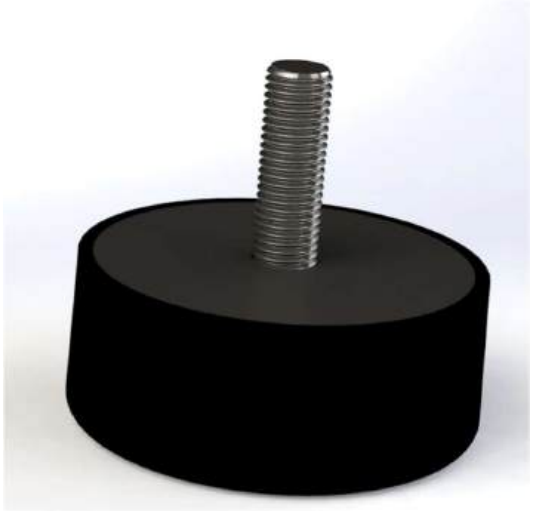
Premium Machine Foot - 10040



This versatile foot is suitable for a wide range of applications and loads. Whilst there is a standard range, we are used to making variants, so please contact us if you require a variant.

Materials

The standard item is available in Nitrile rubber (NBR) and stainless steel (316)

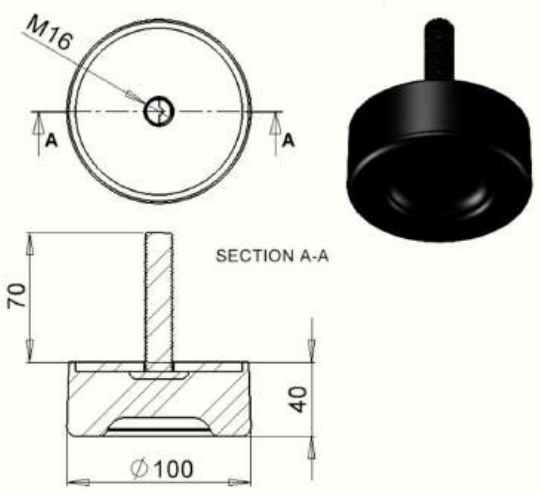
Applications

Machines, conveyors, free standing power packs.

Installation

This is a free standing isolation foot. If adjustment is required, this should be via a 3-nut system:

- one at the base of the foot thread, which locks the thread against the washer ensuring the load is transferred through the washer.
- the other two providing height adjustment and clamping against the machine being held.



Options which can be requested:

- Threads: Length from 10 - 95mm, female threads and up to M20
- Plated mild steel metals.
- Rubber compounds e.g. Natural (NR), Neoprene (CR), EPDM.

Product	Rubber	Loading (Kgs)*		Compression (mm)	
		Min	Max	Min	Max
FT-100-40/2	Natural	100	250	2.4	5
FT-100-40/3		250	520	2.3	5
FT-100-40/4		400	650	2.5	5
FT-100-40/5		600	1000	2.3	5
FT-100-40/2-NBR	Nitrile	100	250	2.4	5
FT-100-40/3-NBR		200	400	2.3	5
FT-100-40/4-NBR		300	600	2.5	5
FT-100-40/5-NBR		500	900	2.3	5

* Load ranges are for vibration applications. Reduce these for shock applications

Load	Vibration Absorption at Load	
	25 Hz	50 Hz
Min	75%+	95%+
Max	90%	95%+

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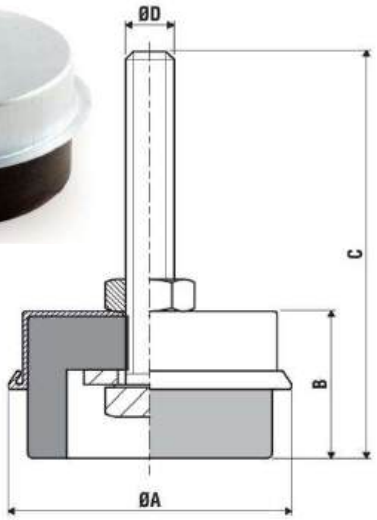
Defence Grade Machine Feet – FT-V-TSGE

These high-grade machine feet have a cap to shelter elastomer, and can support 25 – 400 daN (1Kg = 0.981daN)

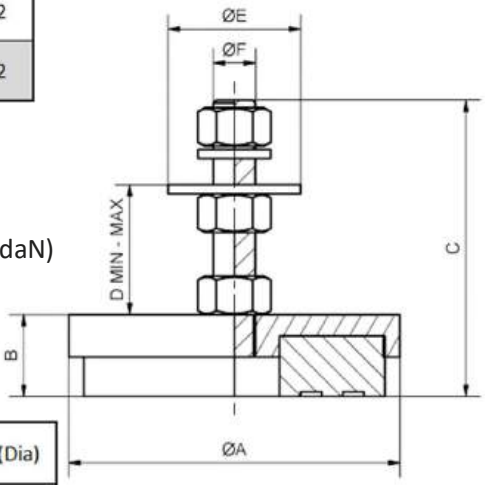
- Modular and unbonded so elements can be replaced.
- Materials:
  - Natural Rubber
  - Zinc coated steel metals (stainless steel available upon request).

With these products we recommend ensuring that the load covers the whole of the metal cap and that they are **not** used for levelling/height adjustment requirements.



Product	Load Range (daN)		Deflection (mm)		A (Dia)	B	C	D (Dia)
	Min	Max	Min	Max				
FT-V-TSGE-50-AS	25	50	1.3	2.6	58	30	65	M10
FT-V-TSGE-50-N	50	100	1.7	3				
FT-V-TSGE-100-AS	50	100	1.8	3.5	68	35	64	M10
FT-V-TSGE-100-N	100	200	2.6	4.3				
FT-V-TSGE-200-AS	100	150	1.5	2.3	104	45	105	M12
FT-V-TSGE-200-N	200	300	2.3	3.1				
FT-V-TSGE-300-AS	150	200	2.2	2.6	120	50	110	M12
FT-V-TSGE-300-N	300	400	2.1	2.6				

Defence Grade Machine Feet – FT-V-TSPP



These height adjustable machine feet can support 50 – 1,500 daN (1Kg = 0.981daN)

- Materials:
  - Nitrile Rubber for oil resistance
  - Zinc coated steel and Aluminium

Product	Load Range (daN)		A (Dia)	B	C	D	E (Dia)	D (Dia)
	Min	Max						
FT-V-TSPPR-60-AS	50	100	70	27	98	25-43	37	M12
FT-V-TSPPR-60-N	100	200						
FT-V-TSPPR-80-AS	100	200	95	27	98	25-43	37	M12
FT-V-TSPPR-80-N	200	400						
FT-V-TSPPR-100-AS	200	300	110	27	98	29-43	44	M14
FT-V-TSPPR-100-N	400	600						
FT-V-TSPPR-120-AS	300	400	130	27	124	33-53	50	M16
FT-V-TSPPR-120-N	600	800						
FT-V-TSPPR-140-AS	400	500	150	27	131	36-54	56	M18
FT-V-TSPPR-140-N	800	1000						
FT-V-TSPPR-180-AS	500	750	200	36	166	40-54	60	M20
FT-V-TSPPR-180-N	1000	1,500						

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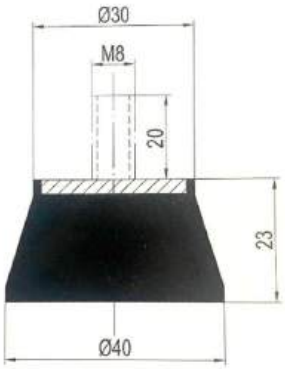
Standard Machine Feet – Lightweight Versions

These standard machine feet are designed for lighter-weight applications – up to 100kg per foot.

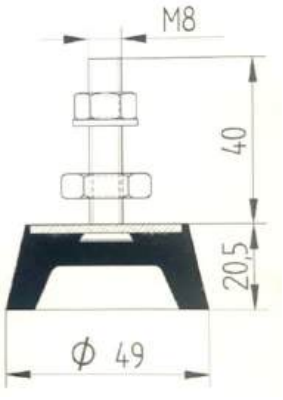
By default, these products are only available with natural rubber and zinc plated steel. The * in the table below is available in stainless steel.

Product	Max Load (Kgs)	D (Dia)	H	Thread (Dia)	h
FT-E-40-23	30	40	23	M8	20
FT-E-49-21	40	49	20.5	M8	40
FT-E-42-15	60	42	15	M10	25
FT-E-40-15	60	40	15	M8	40
FT-E-48-23*	80	48	23	M8	40
FT-E-51-23	100	51	23	M8	38

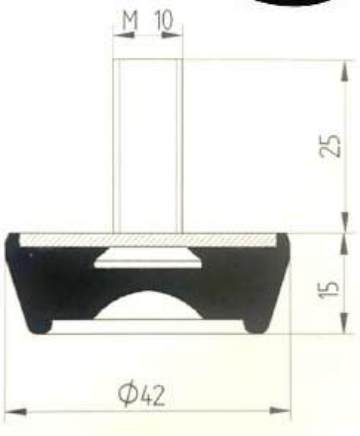
* available in stainless steel, add "-SS" to the product code.
Dimensions are in mm



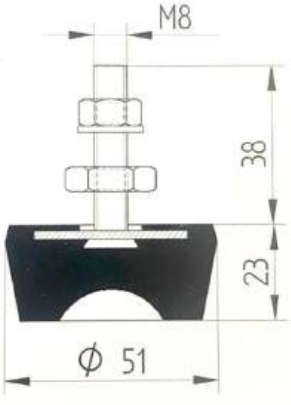
FT-E-40-23



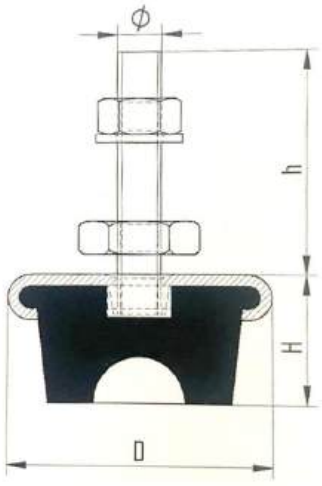
FT-E-49-21



FT-E-42-15



FT-E-51-23



FT-E-48-23 & FT-E-40-15 (similar design but not identical)

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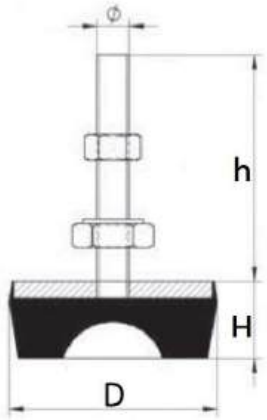
Standard Machine Feet – High Profile

These standard machine feet offer improved levels of isolation, however they are also subject to increased lateral movement due to the increased rubber height.

By default, these products are only available with natural rubber and zinc plated steel. The * in the table below is available in stainless steel.

Product	Max Load (Kgs)	D (Dia)	H	Thread (Dia)	h
FT-E-60-25*	50 - 120	60	25	M10	83
FT-E-75-30*	80 - 150	75	30	M12	90
FT-E-90-35*	120 - 300	90	35	M12	90
FT-E-105-38*	250 - 500	105	38	M16	110
FT-E-125-45*	400 - 800	125	45	M16	110
FT-E-150-55*	600 - 1,100	150	55	M16	110
FT-E-170-57*	1,000 - 1,600	170	57	M16	110
FT-E-187-70*	1,400 - 2,400	187	70	M20	115
FT-E-210-75	2,000 - 3,500	210	75	M20	115



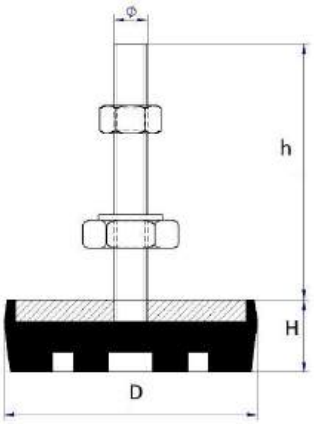
Dimensions are in mm

Standard Machine Feet – Low Profile

These standard machine feet offer a lower profile, but therefore reduced levels of isolation. The advantage is reduced lateral movement and size, and a higher load rating for a given size.

These products are only available with natural rubber and zinc plated steel.

Product	Max Load (Kgs)	D (Dia)	H	Thread (Dia)	h
FT-E-63-18	30 - 100	63	18	M10	83
FT-E-70-22	80 - 150	70	22	M12	90
FT-E-90-25	100 - 350	90	25	M12	90
FT-E-106-29	300 - 600	106	29	M16	110
FT-E-127-33	500 - 900	127	33	M16	110
FT-E-150-39	800 - 1,500	150	39	M16	110
FT-E-170-42	1,300 - 2,000	170	42	M16	110



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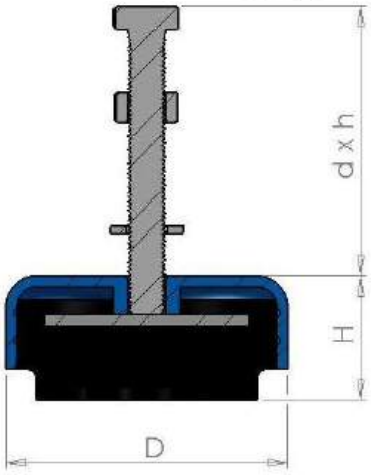
Standard Machine Feet – Shielded

These standard machine feet come with a shield/cap to protect the rubber against accidental oil contact, or damage from falling objects.

These machine feet are particularly stiff for their height.

These products are only available with natural rubber and coated steel.

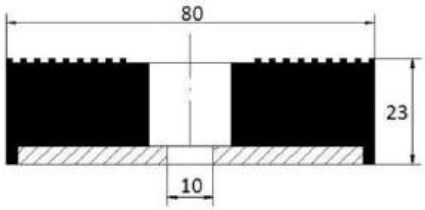
Product	Max Load (Kgs)	D (Dia)	H	Thread (d x h)
FT-E-48-25-CAM	0 - 100	48	25	M8 x 40
FT-E-76-35-CAM	100 - 350	76	35	M10 x 65
FT-E-90-40-CAM	350 - 600	90	40	M12 x 80
FT-E-90-49-CAM	600 - 900	90	49	M16 x 115
FT-E-125-52-CAM	1,000 - 2,500	125	52	M16 x 110
FT-E-170-57-CAM	2,500 - 4,000	170	57	M20 x 120



Dimensions are in mm

Standard Machine Feet – Bolt-free

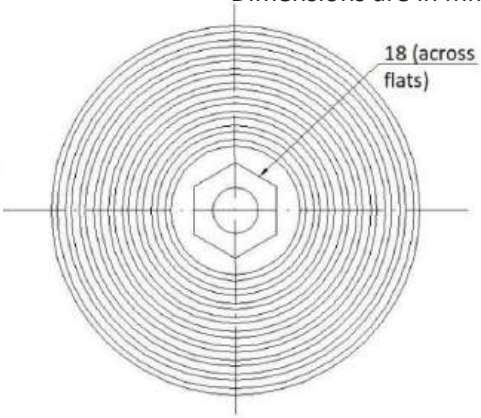
These “bolt-free” feet allow the user to install the length and specification of M10 bolt required.



Dimensions are in mm

These products are only available with natural rubber and with zinc plated steel.

No Load related data is available, however we would not recommend loads over 350kg for this foot.



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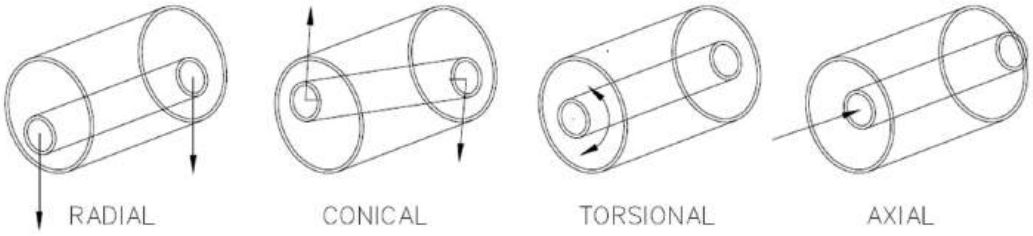
Suspension Bushes

A range of standard versions is available providing characteristics to suit diverse applications. They are commonly used in automotive applications for suspension system linkages or leaf spring mounting, where some degree of movement is desirable. This bush design provides for displacement in a combination of radial, axial, torsional or conical loadings (see diagrams below)



Bushes are placed at the pivot points for any of the following reasons:

- Smooth and predictable movement without the wear associated with solid metal bushes. No surface-to-surface sliding motion for any required motion.
- Vibration isolation - rubber bushes reduce the transfer of vibration and shock loading.
- Deflection under load - when engineered into a system, this deflection can allow the linkage freedom of movement. If deflection is not accommodated within the torsion bush, stresses may be transferred to other mechanical components.
- Modern suspension systems are designed so that the bush deflection does not seriously impact alignment, allowing for vibration isolation whilst maintaining the steering geometry.

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Suspension Bushes – different types:

SAB Bush: With a bonded inner tube and no outer metal tube, a SAB is designed to fit into a machined housing. An interference fit provides useful pre-compression. This construction is intended for relatively light axial or torsional/rotational loads as the outer tube will slip after a point. The point it will slip at depends on the level of compression.

B Bush: This type of bush starts life as an SAB Bush, and then has an outer tube fitted with an interference fit to pre-compress the rubber. As per the SAB bush, it is intended for relatively light axial and torsional/rotational loads, as the outer tube will slip beyond a point. That said, slipping of the rubber in rotation can be desirable for some applications. Note: B bushes are available as SABs and can be made into BPs.

BP Bush: This type of bush typically starts life as a B Bush but can be made from a BB Bush. After the straight sided version is manufactured, the ends of the outer tube are peened (curved) over. The reasons to peen a bush relate to the increased constraint of the rubber, which results in a notable increase in axial stiffness, and higher spring rates in other axes. Deflection limits in conical and radial axes do reduce due to the reduced distance between them. Note: BP bushes are available as SABs and Bs.

BB Bush: This is a double-bonded bush – both the inner and outer tubes are bonded to the rubber, thereby eliminating the opportunity for rubber to slip. Under much higher forces than it would take for a B Bush to slip, the rubber in a BB Bush will tear. There are clear advantages of a double-bonded bush, including the multi-directional forces they can withstand. Over time, these have become the vehicle suspension standard.

TB Bush: These triple-bonded bushes are like BB Bushes but utilise a third tube between the inner and outer tubes. TB Bushes tend to have large outer diameters due to high rotational or axial deflection requirements; the third tube is added to maintain higher radial and conical stiffness. These are particularly useful on suspension arms which require a larger range of rotational movement (e.g. off-road vehicles) and are found on many well-known brands.

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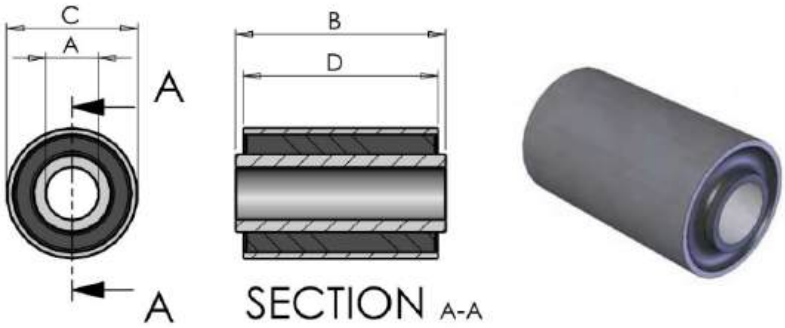
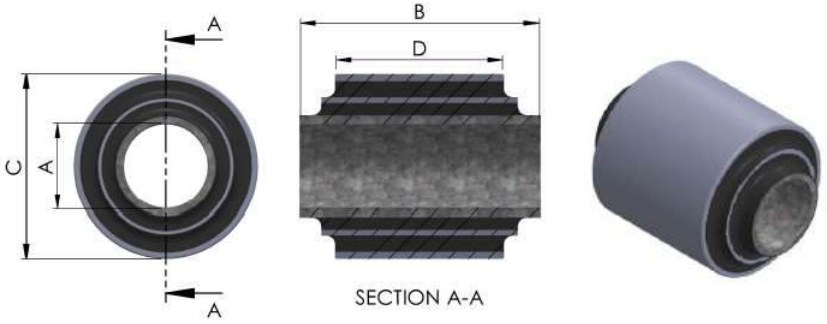
BB Bush Dimensions



Name	Bore (dia A)		Inner tube length (B)		Outer dia (C)		Outer tube length (D)	
	mm	Inch	mm	Inch	mm	Inch	mm	Inch
BB-12-40-28-37	12.2	0.480	40.0	1.574	28.0	1.101	37.3	1.470
BB1273	16.1	0.632	28.6	1.125	38.1	1.502	25.3	0.994
BB1306	20.2	0.795	80.7	3.177	50.4	1.984	75.0	2.953
BB1310	14.1	0.557	44.5	1.751	29.9	1.179	38.7	1.522
BB1311	16.1	0.633	61.9	2.438	35.0	1.377	57.1	2.246
BB1378	16.1	0.634	47.6	1.875	50.9	2.002	38.1	1.500
BB1388	11.2	0.442	66.2	2.605	47.6	1.874	50.8	2.000
BB1389	11.2	0.442	66.2	2.605	47.6	1.874	50.8	2.000

TB Bush Dimensions



Name	Bore (dia A)		Inner tube length (B)		Outer dia (C)		Outer tube length (D)	
	mm	Inch	mm	Inch	mm	Inch	mm	Inch
TB1308	16.0	0.629	47.6	1.875	50.9	2.002	38.1	1.500
TB1309	19.1	0.754	53.9	2.120	41.5	1.635	38.1	1.500
TB1317	16.1	0.633	54.3	2.136	50.9	2.003	44.5	1.750

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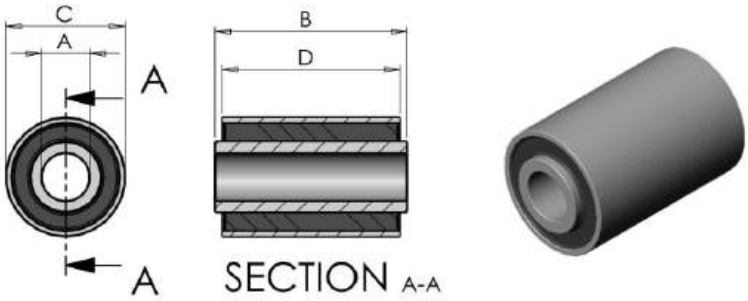
B Bush Dimensions



Name	Bore (dia A)		Inner tube length (B)		Outer dia (C)		Outer tube length (D)	
	mm	Inch	mm	Inch	mm	Inch	mm	Inch
B165	14.4	0.568	46.0	1.812	30.2	1.190	34.9	1.375
B602/2	9.6	0.379	22.2	0.875	19.1	0.751	19.2	0.755
B602/9	9.6	0.376	31.0	1.219	19.1	0.752	29.0	1.140
B603A	11.2	0.440	22.2	0.873	23.8	0.939	19.1	0.750
B605/9	14.4	0.566	61.9	2.437	31.8	1.252	57.2	2.250
B606/8	16.1	0.632	50.8	2.001	35.0	1.377	44.4	1.749
B606/10	16.1	0.632	71.4	2.812	35.0	1.377	63.5	2.500
B608/10	19.1	0.753	41.3	1.625	38.2	1.503	38.1	1.500
B608/26	19.1	0.753	66.7	2.626	38.2	1.503	61.2	2.410
B629/11	11.2	0.440	30.2	1.187	22.3	0.876	25.5	1.005
B630	11.2	0.440	54.0	2.125	25.4	1.001	50.8	2.000
B630/7	11.2	0.440	50.5	1.988	25.4	1.001	44.8	1.765
B632/9	16.1	0.632	28.6	1.125	31.8	1.252	25.4	1.000
B636/2	12.8	0.503	34.9	1.375	27.0	1.064	32.0	1.260
B636/5	12.8	0.503	38.0	1.496	27.0	1.064	32.0	1.260
B636/7	12.8	0.503	60.3	2.375	27.0	1.064	50.8	2.000
B637/6	14.4	0.566	50.8	2.000	30.2	1.190	44.5	1.750
B637/8	14.4	0.568	69.9	2.750	30.2	1.190	63.5	2.500
B637/18	14.4	0.568	92.1	3.625	30.2	1.190	85.7	3.375
B638	9.6	0.379	42.9	1.688	20.7	0.814	38.1	1.500
B638/6	9.6	0.379	15.9	0.625	20.7	0.814	12.7	0.500
B1027	22.3	0.879	78.5	3.090	46.7	1.840	76.2	3.000
B1046	14.4	0.565	92.1	3.625	38.2	1.503	85.7	3.375
B1059	12.8	0.504	63.2	2.490	28.7	1.128	57.2	2.250
B(E)1025	11.2	0.440	54.0	2.125	35.0	1.378	44.5	1.750

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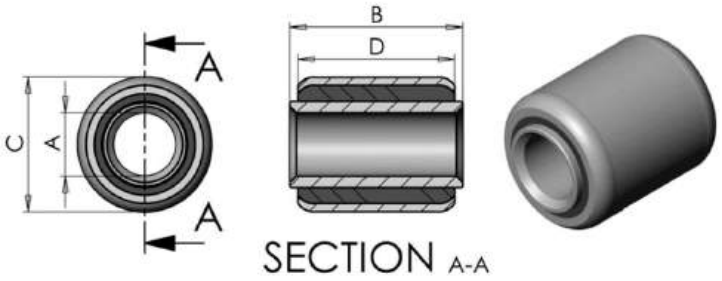
BP Bush Dimensions

Note: […]

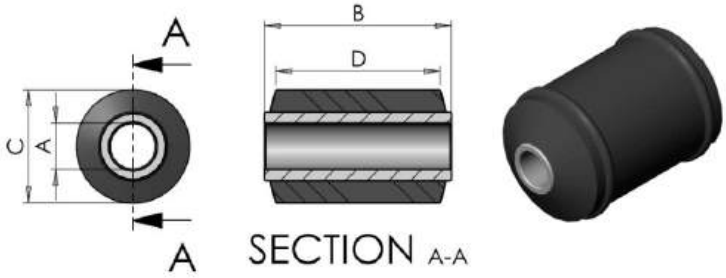
* The BP700 variant has a solid central bar with additional features in it. Dimension A is the outer diameter of the bar as there is no bore.



Name	Bore (dia A)		Inner tube length (B)		Outer dia (C)		Outer tube length (D)	
	mm	Inch	mm	Inch	mm	Inch	mm	Inch
BP608/26	19.1	0.753	66.7	2.626	38.2	1.503	60.3	2.375
BP630/7	11.2	0.440	50.5	1.988	25.4	1.001	44.8	1.765
BP636/2	12.8	0.503	34.9	1.375	27.0	1.064	31.8	1.250
BP636/6-TVR	12.8	0.503	38.0	1.496	27.0	1.064	31.8	1.250
BP700*	31.7	1.247	152.4	6.000	51.1	2.010	88.9	3.500
BP1023	24.1	0.948	79.4	3.125	44.5	1.752	76.3	3.002

SAB Bush Dimensions

Note: The rubber profile within a SAB, B or BP bush can vary (see image to the right for the SAB1013 variant).



Name	Bore (dia A)		Inner tube length (B)		Outer dia (C)		Outer Rubber length (D)	
	mm	Inch	mm	Inch	mm	Inch	mm	Inch
SAB930	9.6	0.378	36.5	1.437	21.8	0.858	35.5	1.398
SAB935	12.8	0.505	38.1	1.500	28.0	1.103	37.5	1.475
SAB1013	11.2	0.441	63.5	2.500	38.2	1.505	49.9	1.965
SAB1024	19.1	0.754	78.5	3.090	35.9	1.415	56.4	2.219
SAB1060	12.8	0.504	76.2	3.000	27.1	1.065	35.5	1.396
SAB1071	11.2	0.443	38.9	1.530	23.4	0.923	33.8	1.331

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Suspension Bushes – Installation

Typically, the outer tube is either clamped in place or is an interference fit in a machined housing. This normally requires insertion using a mechanical or hydraulic press.

The inner tube is typically held in place by a clamping bolt which is tightened to sufficient torque to prevent the inner tube from rotating in use under the forces likely to be experienced.

Interference tolerances for Bushes within their housings

In most applications bushes are intended to be a press fit in a bore. In this case the following bore tolerances should be applied: The bush diameter should be taken as its nominal size – mid-tolerance.
Note: where the bush is to be inserted into a rolled spring eye, the interference is greater due to the yielding of the spring eye.

Bush Interference fit guide			
Outside diameter of bush (mm)	Bore limits from nominal bush O/D	Rolled Spring eye Bore	SAB Style Bushes
6 to 23	-0.04 to -0.06	-0.25 to -0.5	-0.25 to - 0.35
24 to 40	-0.05 to -0.08	-0.4 to -0.7	-1 to -1.1
41 to 50	-0.06 to -0.09	-0.9 to -1.1	-1.5 to -1.6
51 to 70	-0.08 to -0.10	-1 to -1.4	-1.7 to -1.8

For SAB style bushes without the outer steel tube, the degree of interference is also much greater. This provides for security of installation and also has the effect of stiffening the bush due to the compression of the rubber during assembly.

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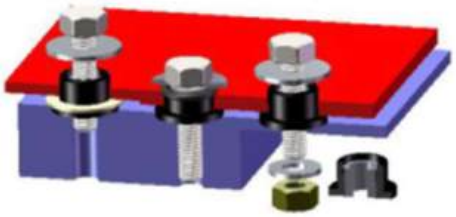
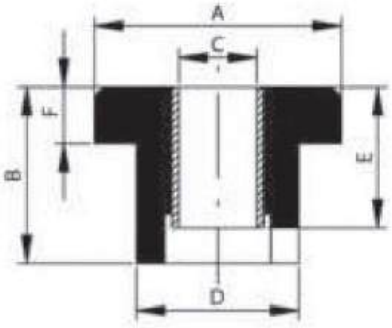
Bolt Isolators

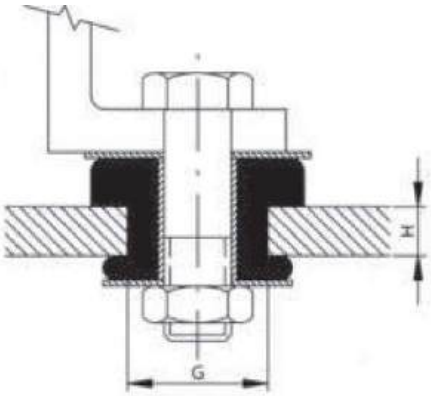


The items in this section provide for failsafe fixing (when washers are added) combined with vibration isolation. They avoid the common error of simply passing a bolt through rubber matting which typically results in the transfer of vibration through the bolt. These solutions separate the through bolt from the items being isolated.

Bolt isolators come in 3 types: 1 (often known as a T-Bush), 2 and 3-part products. Bolt isolators are used to securely bolt two items together whilst attenuating vibration through flexibility of the connection. As a result, the tube is designed to prevent excess tightening of the bolt as this would reduce the 'flexibility' of the connection.

Standard Bolt Isolators – 1-part





Note: Retaining washers are not supplied with this product. Dimensions are in mm

Product	Load (Kgs)	Deflection	A	B	C	D	E	F	G	H
BI-E-27-23/45	35	0.7	27	23	10	20.1	17.5	5.7	20	8
BI-E-27-23/60	50									
BI-E-27-23/75	75									
BI-E-28-26/45	35	0.7	27.7	26	10	20.6	17.5	5.6	20.6	8
BI-E-28-26/60	50									
BI-E-28-26/75	75									
BI-E-45-32/45	75	1.2	44.5	32	13	31.5	25.4	10.5	31.5	10
BI-E-45-32/60	100									
BI-E-45-32/75	140									
BI-E-51-42/45	90	1.6	50.8	42	13	34.5	35	13.5	34.5	16
BI-E-51-42/60	200									
BI-E-51-42/75	400									
BI-E-64-51/45	150	2	63.5	51	16	41.1	44.5	15.7	41.1	19
BI-E-64-51/60	250									
BI-E-64-51/75	500									
BI-E-64-70/45	150	4.5	63.5	70	16	41.1	53.9	26.2	41.1	19
BI-E-64-70/60	250									
BI-E-64-70/75	500									

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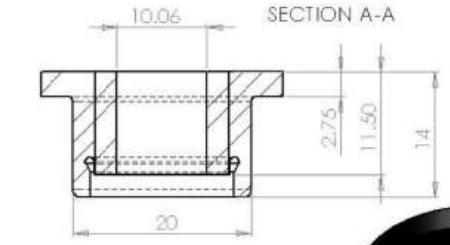
Premium Bolt Isolators – 1-part (M10)

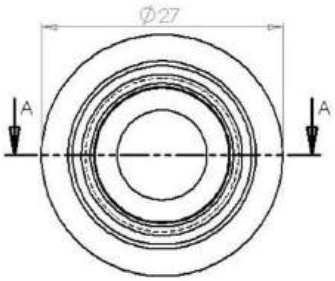
Also known as a T-bush. Key features of this Bolt Isolator:

- Installation hole is 20mm diameter
- Designed for an M10 through bolt and to clamp a 6mm plate which can be either the isolated item or the base surface. Thinner sections can be isolated by using washers to increase the section thickness to 6mm.
- Use a 27mm diameter washer on the free rubber end for a fail-safe mounting.



By default, the materials in this product are:

- Rubber: Natural Rubber (60°ShA)
- Bonded Tube: Sherardized Mild Steel



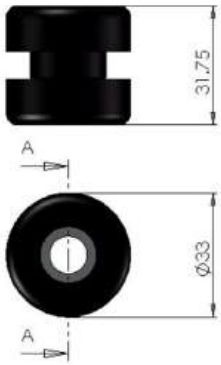
On request, this product can be manufactured with a range of different rubber materials and/or Stainless steel tube.

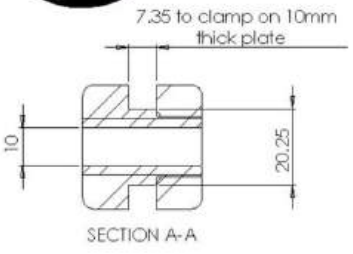
Product	Load (Kgs)	Deflection
BI-27-14/4	55	0.7

Premium Bolt Isolators – 2-part (M10)

Key features of this Bolt Isolator:

- Installation hole is 20mm diameter
- Designed for an M10 through bolt and to clamp around a 10mm thick plate which can be either the isolated item or the base surface
- Using 32mm diameter washers on both sides for a fail-safe mounting.





By default, the materials in this product are:

- Rubber: Natural Rubber
- Bonded Tube: Sherardized Mild Steel

On request, this product can be manufactured with a range of different rubber and/or Stainless Steel tubes.

Product	Load (Kgs)	Deflection
BI-33-32/4	75	1.1

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Premium Bolt Isolators – 3-part (M4)

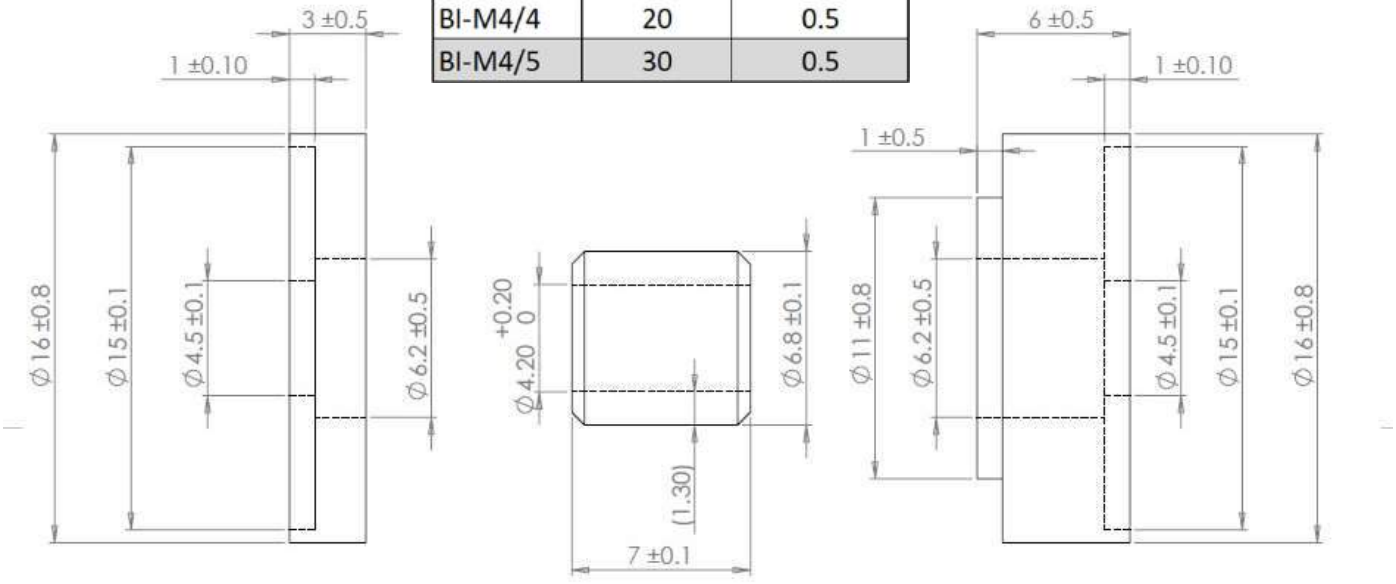
Key points and features of this Bolt Isolator:

- Installation hole is 11mm diameter
- Designed for an M4 through bolt and to clamp around a 1mm thick plate which can be either the isolated item or the base surface.
    - Alternative plates thicknesses can be accommodated with an increased tube length and using two rubber t-discs rather than one t-disc and one washer. Contact us for more information.
- Bonded 15mm diameter washers on both sides give a fail-safe mounting.
- The load should be applied to the T-disc side of the mount.

By default, the materials in this product are:

- Rubber: Natural Rubber
- Bonded Washers: Stainless Steel (316)
- Tube (unbonded): Brass (alternatives available).

Product	Load (Kgs)	Deflection
BI-M4/2	5	0.5
BI-M4/3	10	0.5
BI-M4/4	20	0.5
BI-M4/5	30	0.5



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Premium Bolt Isolators – 3-part (M6)

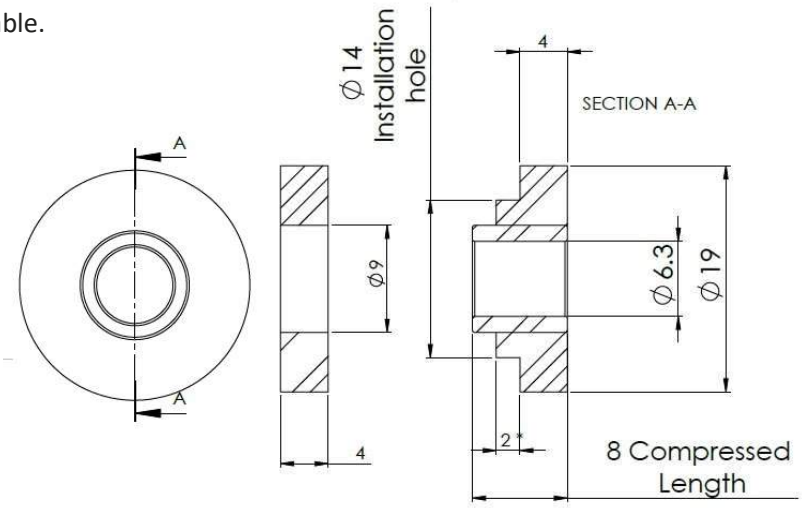
Key points and features of this Bolt Isolator:

- Installation hole is 14mm diameter.
- Designed for an M6 through bolt and to clamp around a 2mm thick plate which can be either the isolated item or the base surface.
    - Alternative plates thicknesses can be accommodated with an increased tube length and using two rubber t-discs rather than one t-disc and one washer. Contact us for more information.
- Add 19mm diameter washers on both sides for a fail-safe mounting.
- The compressive load should be applied to the T-disc side of the mount.

By default, the materials in this product are:

- Rubber: Natural Rubber
- Tube (unbonded): Stainless Steel (316)
- NOTE: Alternative materials are available.

Product	Load (Kgs)	Deflection
BI-M6/2	9	1.5
BI-M6/3	15	1.5
BI-M6/4	30	1.5
BI-M6/5	40	1.5



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Bulkhead, Plate or Low Profile Mounts

Bulkhead, Plate or Low-Profile Mounts are suitable for shock and vibration application. The allow a high level of freedom in all six degrees. The installation configuration can be used to restrict some of these degrees.

We have divided our Plate mounts into two types: centralised and de-centralised:

Examples our centralised plate mounts.

Example of a de-centralised plate mount.

Key points for Plate Mounts:

- Loads for vibration applications: 0.2kg – 200kg.
- Suitable for shock applications.
- The basic construction is a mounting plate and a metal inner tube separated by bonded rubber.
- The inner tube is always smooth (no thread).
- Large metal washers can be used to add failsafe properties
- Mounts can be fixed to the mounting plate via rivets, screws or bolts.
- Loads can be supported above or below the support, however we would typically recommend incorporating a failsafe structure if the load is suspended.
- Typical uses for Plate mounts include:
    - Instrumentation
    - Dashboards within aerospace and military vehicles
    - Audio speakers
    - Delicate machinery

Potential Installations

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Defence Grade Plate Mounts – De-centralised

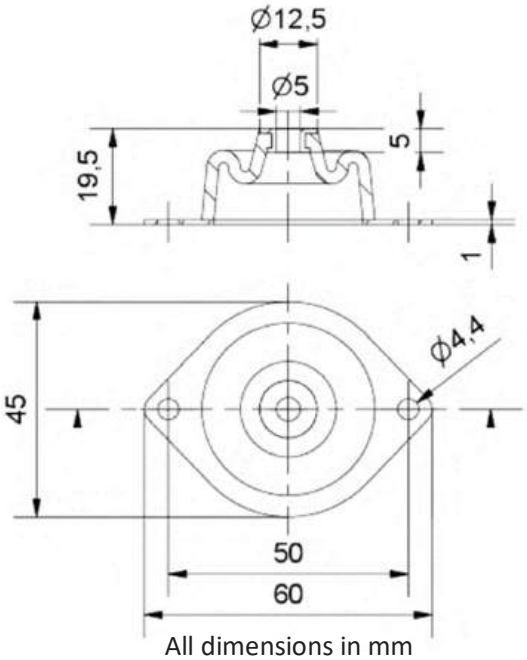
The Superflex anti-vibration plate mount has an offset inner tube which makes it look like a pedestal mount, however there is no thread.

Key points:

- This is a very lightweight mount, designed for loads of up to 1kg (~1daN).
- Static deflections of up to 1mm (at max load) enable isolation to start at 23Hz and improve with increased vibration frequency.
- Static deflections of 0.2mm (at min load) enable isolation to start at 50Hz and improve with increased vibration frequency.
- Typical uses include:
  - Very light machinery
  - Instrumentation

Note, whilst this mount can support suspended loads like all other plate mounts, the load should compress the mount rather than stretch it.

Product	Load Range (daN)		Deflection	
	Min	Max	Min	Max
PLT-V-Superflex	0.2	1.0	0.2	1.0



All dimensions in mm

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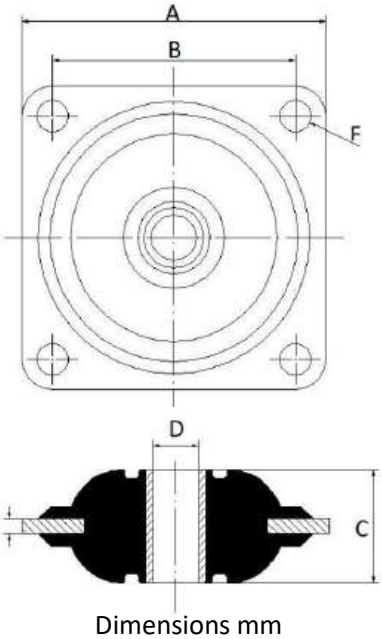

Plate Mounts – Centralised

Centralised Plate Mounts have the inner tube either in-line, with up to 20% offset by design. Where an offset is in place, we recommend that the load compresses this offset into the plate rather than increase the offset.

By default, materials in the below items are:

- Zinc plated mild steel (sherardize zinc plating on Premium products).
- Natural Rubber (Premium products available with rubber options e.g. EPDM, Nitrile, Food Grade rubber).

Loads given are for vibration applications, not for shock loadings.

Dimensions mm

Product	Grade	Load Range (daN)		Deflection		A	B	C	D	E	F
		Min	Max	Min	Max						
PLT-V-32/50	Defence	0.5	1.5	-	-	32.0	26.0	10.0	4.0	1.0	3.0
PLT-V-32/60		1.5	2.5	-	-						
PLT-V-32/70		2.5	3.5	-	-						
PLT-V-44/50		2	6	-	-	44.5	35.0	15.5	6.0	1.0	4.0
PLT-V-44/60		6	10	-	-						
PLT-V-44/70		10	15	-	-						
PLT-45/1	Premium	1.5	4	0.7	2.0	44.5	34.9	15.9	6.0	1.3	4.0
PLT-45/2		3	5	1.1	2.1						
PLT-45/3		4	8	0.9	1.8						
PLT-45/4		7	13	0.8	2.0						
PLT-45/5		9	17	0.9	2.0						
PLT-57/1		4	8	1.5	4.0	57.2	44.5	25.4	10.0	2.0	5.0
PLT-57/2		5	10	1.5	4.0						
PLT-57/3		10	21	1.5	4.0						
PLT-57/4		15	28	1.5	4.0						
PLT-57/5		24	47	1.5	4.0						
PLT-57-MV/1		4	13	1	3.2	57.2	44.5	25.4	10.0	2.0	5.0
PLT-57-MV/2		5	15	1	3.2						
PLT-57-MV/3		10	25	1	3.2						
PLT-57-MV/4		13	35	1	3.2						
PLT-57-MV/5		22	55	1	3.2						
PLT-E-101	Standard	50	200	2	8	100.5	80.4	37.0	15.0	5.0	10.5

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Coil Spring Mounts

Coil Spring mounts exhibit a relatively large deflection under load and have a high resistance to oils, corrosion and extremes of temperature. Within the same size envelope, different characteristics can be achieved by using springs with different load/deflection characteristics (spring rate).

The high levels of deflection make them particularly useful in low frequency applications or for a combination of vibration and shock absorption.

Unless designed to do so, Coil Springs are not used to absorb lateral vibrations or shocks. In a vehicle suspension, solid arms with rubber bushes absorb horizontal components of shock and vibration, while the spring handles the vertical components. The same is true for coil spring mounts. That said, they have a tolerance to low levels of lateral deflection, especially those with 3+ coils per mount.

Key points for Coil Spring Mounts:

- Loads for vibration applications: 12kg – 260kg.
- Suitable for shock applications.
- Very good for low frequency applications with forcing frequencies above 4.5Hz (applies to specific products)
- High resistance against oils, corrosion and high temperatures.
- Springs are C85 Steel with an epoxy paint. Other parts are elastomers with metal inserts and galvanised steel.

Common applications include:

- HVAC systems and air conditioning units
- Refrigeration units
- Machinery mounts & Transformers
- Compressors, Pumps & generators, especially if operating below 1400 RPM

Installation:

- Fix between the machine and a solid surface (e.g. the floor or a mounting plate).
- Note: These mounts are designed for applications loaded in compression, not for tensile or shear applications.

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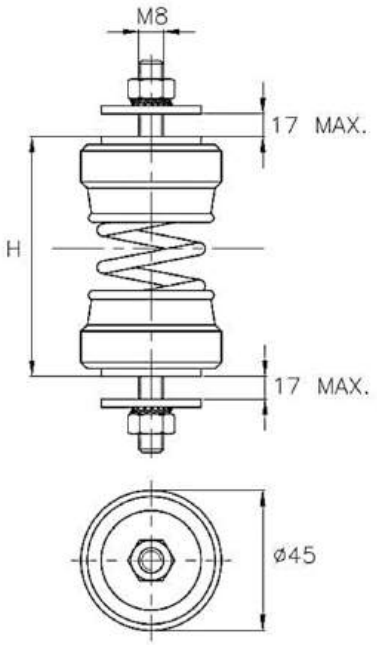
Mopla 1 - Coil Spring Mounts – Single Spring Bobbins



These simple spring bobbins are highly effective at absorbing vibration through compression loads due to their large deflection.

Key features:

- 12 – 180 daN
- Natural frequencies of 3 – 6 Hz at max load
- Increased lateral stability when multiple units used and positioned appropriately to the load
- For installation at the base of machinery (compression)
- High resistance to environmental agents, oils, corrosion and high temperatures.
- Spring is C85 steel with epoxy paint, other parts are elastomers with metal inserts.

Part Name	H	Max Load (daN)	Deflection at Max Load (mm)	Min forcing frequency (Hz) at max load	Elastic constant (daN/mm)	Max load absorption for given forcing frequency	
						10 Hz	15 Hz
SPR-V-M1-Bob/A 25	57	25	6.5	9	3.8	35%	>75%
SPR-V-M1-Bob/A 45		45	6.5	9	6.9		
SPR-V-M1-Bob/A 85		85	6.5	9	13.1		
SPR-V-M1-Bob/A 120		120	6.5	9	18.5		
SPR-V-M1-Bob/B 30	75	30	14.5	6	2.1	75%	90%
SPR-V-M1-Bob/B 50		50	14.5	6	3.4		
SPR-V-M1-Bob/B 90		90	14.5	6	6.2		
SPR-V-M1-Bob/B 125		125	14.5	6	8.6		
SPR-V-M1-Bob/C 55	105	55	27	4.5	2	>85%	95%
SPR-V-M1-Bob/C 105		105	27	4.5	3.9		
SPR-V-M1-Bob/C 180		180	27	4.5	6.7		
SPR-V-M1-Bob/D 12	80	12	20	6	0.6	>80%	90%
SPR-V-M1-Bob/D 20		20	20	6	1		
SPR-V-M1-Bob/D 32		32	20	6	1.6		

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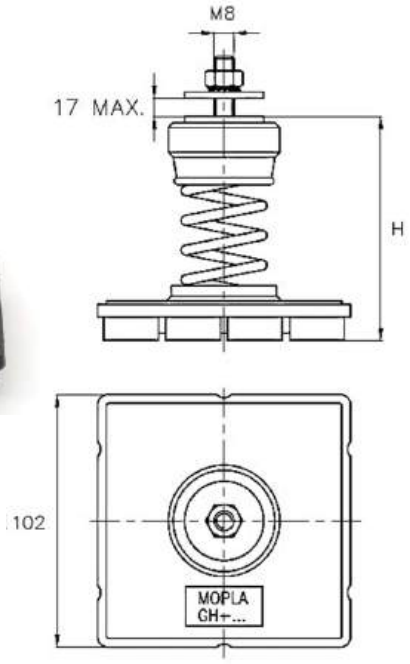
Mopla 1 - Coil Spring Mounts – Single Spring Foot



These simple spring feet are highly effective at absorbing vibration through compression loads due to their large deflection.

Key features:

- Hi-grip elastomeric foot
- 12 – 180 daN in compression
- Natural frequencies of 3 – 6 Hz at max load
- Increased lateral stability when multiple units used and positioned appropriately to the load
- For installation at the base of machinery (compression)
- High resistance to environmental agents, oils, corrosion and high temperatures.
- Spring is C85 steel with epoxy paint, other parts are elastomers with metal inserts.

Part Name	H	Max Load (daN)	Deflection at Max Load (mm)	Min forcing frequency (Hz) at max load	Elastic constant (daN/mm)	Max load absorption for given forcing frequency	
						10 Hz	15 Hz
SPR-V-M1-Ft/A 25	64	25	6.5	9	3.8	35%	>75%
SPR-V-M1-Ft/A 45		45	6.5	9	6.9		
SPR-V-M1-Ft/A 85		85	6.5	9	13.1		
SPR-V-M1-Ft/A 120		120	6.5	9	18.5		
SPR-V-M1-Ft/B 30	82	30	14.5	6	2.1	75%	90%
SPR-V-M1-Ft/B 50		50	14.5	6	3.4		
SPR-V-M1-Ft/B 90		90	14.5	6	6.2		
SPR-V-M1-Ft/B 125		125	14.5	6	8.6		
SPR-V-M1-Ft/C 55	112	55	27	4.5	2	>85%	95%
SPR-V-M1-Ft/C 105		105	27	4.5	3.9		
SPR-V-M1-Ft/C 180		180	27	4.5	6.7		
SPR-V-M1-Ft/D 12	87	12	20	6	0.6	>80%	90%
SPR-V-M1-Ft/D 20		20	20	6	1		
SPR-V-M1-Ft/D 32		32	20	6	1.6		

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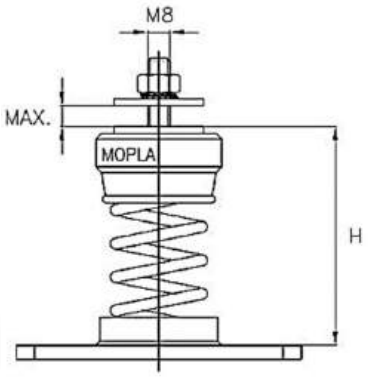
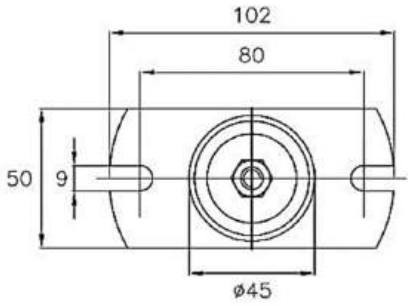
Mopla 1 - Coil Spring Mounts – Single Spring Pedestal



These simple spring pedestals are highly effective at absorbing vibration through compression loads due to their large deflection.

Key features:

- 12 – 180 daN in compression
- Natural frequencies of 3 – 6 Hz at max load
- Increased lateral stability when multiple units used and positioned appropriately to the load
- For installation at the base of machinery (compression)
- High resistance to environmental agents, oils, corrosion and high temperatures.
- Spring is C85 steel with epoxy paint, other parts are polycarbonate and elastomers with metal inserts.



Part Name	H	Max Load (daN)	Deflection at Max Load (mm)	Min forcing frequency (Hz) at max load	Elastic constant (daN/mm)	Max load absorption for given forcing frequency	
						10 Hz	15 Hz
SPR-V-M1-Ped/A 25	55	25	6.5	9	3.8	35%	>75%
SPR-V-M1-Ped/A 45		45	6.5	9	6.9		
SPR-V-M1-Ped/A 85		85	6.5	9	13.1		
SPR-V-M1-Ped/A 120		120	6.5	9	18.5		
SPR-V-M1-Ped/B 30	73	30	14.5	6	2.1	75%	90%
SPR-V-M1-Ped/B 50		50	14.5	6	3.4		
SPR-V-M1-Ped/B 90		90	14.5	6	6.2		
SPR-V-M1-Ped/B 125		125	14.5	6	8.6		
SPR-V-M1-Ped/C 55	103	55	27	4.5	2	>85%	95%
SPR-V-M1-Ped/C 105		105	27	4.5	3.9		
SPR-V-M1-Ped/C 180		180	27	4.5	6.7		
SPR-V-M1-Ped/D 12	78	12	20	6	0.6	>80%	90%
SPR-V-M1-Ped/D 20		20	20	6	1		
SPR-V-M1-Ped/D 32		32	20	6	1.6		

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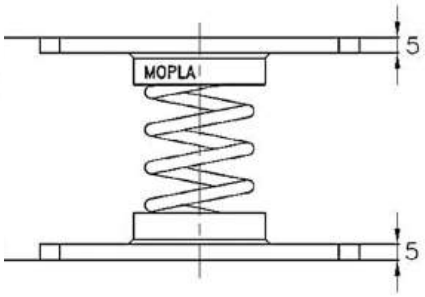
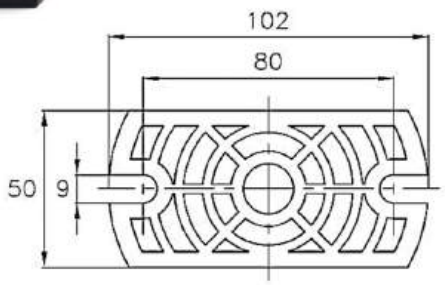
Mopla 1 - Coil Spring Mounts – Single Spring Sandwich



These simple spring sandwich mounts are highly effective at absorbing vibration with compression loads due to their large deflection.

Key features:

- 12 – 180 daN in compression
- Natural frequencies of 3 – 6 Hz at max load
- Increased lateral stability when multiple units used and positioned appropriately to the load
- For installation at the base of machinery (compression)
- High resistance to environmental agents, oils, corrosion and high temperatures.
- Spring is C85 steel with epoxy paint, other parts are polycarbonate.



Part Name	H	Max Load (daN)	Deflection at Max Load (mm)	Min forcing frequency (Hz) at max load	Elastic constant (daN/mm)	Max load absorption for given forcing frequency	
						10 Hz	15 Hz
SPR-V-M1-Sand/A 25	52	25	6.5	9	3.8	35%	>75%
SPR-V-M1-Sand/A 45		45	6.5	9	6.9		
SPR-V-M1-Sand/A 85		85	6.5	9	13.1		
SPR-V-M1-Sand/A 120		120	6.5	9	18.5		
SPR-V-M1-Sand/B 30	70	30	14.5	6	2.1	75%	90%
SPR-V-M1-Sand/B 50		50	14.5	6	3.4		
SPR-V-M1-Sand/B 90		90	14.5	6	6.2		
SPR-V-M1-Sand/B 125		125	14.5	6	8.6		
SPR-V-M1-Sand/C 55	100	55	27	4.5	2	>85%	95%
SPR-V-M1-Sand/C 105		105	27	4.5	3.9		
SPR-V-M1-Sand/C 180		180	27	4.5	6.7		
SPR-V-M1-Sand/D 12	75	12	20	6	0.6	>80%	90%
SPR-V-M1-Sand/D 20		20	20	6	1		
SPR-V-M1-Sand/D 32		32	20	6	1.6		

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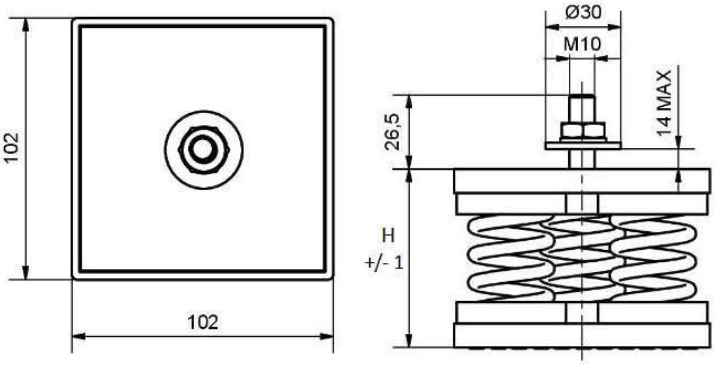
Mopla 5 - Coil Spring Mounts – 5 Spring Feet

This non-height adjustable coil sprung foot offers more lateral stability than a single spring foot and can take higher loads.



Part Name (A Series)	Max Load (daN)	Elastic constant (daN/mm)
SPR-V-M5-Ft/A 110	110	16.9
SPR-V-M5-Ft/A 140	140	21.5
SPR-V-M5-Ft/A 160	160	24.6
SPR-V-M5-Ft/A 180	180	27.7
SPR-V-M5-Ft/A 200	200	30.8
SPR-V-M5-Ft/A 220	220	33.8
SPR-V-M5-Ft/A 240	240	36.9
SPR-V-M5-Ft/A 260	260	40.0
SPR-V-M5-Ft/A 290	290	44.6
SPR-V-M5-Ft/A 330	330	50.8
SPR-V-M5-Ft/A 380	380	58.5
SPR-V-M5-Ft/A 420	420	64.6
SPR-V-M5-Ft/A 460	460	70.8
SPR-V-M5-Ft/A 510	510	78.5
SPR-V-M5-Ft/A 540	540	83.1
SPR-V-M5-Ft/A 560	560	86.2
SPR-V-M5-Ft/A 600	600	92.3
SPR-V-M5-Ft/A 650	650	100.0
SPR-V-M5-Ft/A 690	690	106.2
SPR-V-M5-Ft/A 750	750	115.4
SPR-V-M5-Ft/A 810	810	124.6
SPR-V-M5-Ft/A 860	860	132.3
SPR-V-M5-Ft/A 920	920	141.5
SPR-V-M5-Ft/A 970	970	149.2
SPR-V-M5-Ft/A 1020	1020	156.9
SPR-V-M5-Ft/A 1070	1070	164.6

Part Name (B Series)	Max Load (daN)	Elastic constant (daN/mm)
SPR-V-M5-Ft/B 115	115	7.9
SPR-V-M5-Ft/B 145	145	10.0
SPR-V-M5-Ft/B 165	165	11.4
SPR-V-M5-Ft/B 200	200	13.8
SPR-V-M5-Ft/B 230	230	15.9
SPR-V-M5-Ft/B 250	250	17.2
SPR-V-M5-Ft/B 290	290	20.0
SPR-V-M5-Ft/B 330	330	22.8
SPR-V-M5-Ft/B 350	350	24.1
SPR-V-M5-Ft/B 370	370	25.5
SPR-V-M5-Ft/B 390	390	26.9
SPR-V-M5-Ft/B 430	430	29.7
SPR-V-M5-Ft/B 470	470	32.4
SPR-V-M5-Ft/B 520	520	35.9
SPR-V-M5-Ft/B 550	550	37.9
SPR-V-M5-Ft/B 570	570	39.3
SPR-V-M5-Ft/B 600	600	41.4
SPR-V-M5-Ft/B 650	650	44.8
SPR-V-M5-Ft/B 730	730	50.3
SPR-V-M5-Ft/B 810	810	55.9
SPR-V-M5-Ft/B 880	880	60.7
SPR-V-M5-Ft/B 920	920	63.4
SPR-V-M5-Ft/B 970	970	66.9
SPR-V-M5-Ft/B 1050	1050	72.4

Part Name (C Series)	Max Load (daN)	Elastic constant (daN/mm)
SPR-V-M5-Ft/C 220	220	8.1
SPR-V-M5-Ft/C 270	270	10.0
SPR-V-M5-Ft/C 320	320	11.9
SPR-V-M5-Ft/C 390	390	14.4
SPR-V-M5-Ft/C 430	430	15.9
SPR-V-M5-Ft/C 480	480	17.8
SPR-V-M5-Ft/C 540	540	20.0
SPR-V-M5-Ft/C 580	580	21.5
SPR-V-M5-Ft/C 610	610	22.6
SPR-V-M5-Ft/C 730	730	27.0
SPR-V-M5-Ft/C 780	780	28.9
SPR-V-M5-Ft/C 830	830	30.7
SPR-V-M5-Ft/C 910	910	33.7
SPR-V-M5-Ft/C 1090	1090	40.4
SPR-V-M5-Ft/C 1220	1220	45.2
SPR-V-M5-Ft/C 1320	1320	48.9
SPR-V-M5-Ft/C 1380	1380	51.1
SPR-V-M5-Ft/C 1470	1470	54.4
SPR-V-M5-Ft/C 1580	1580	58.5

H (unsprung height, mm)	58	76	106
Min forcing frequency (Hz) at max load	9	6	4.5
Deflection at Max Load (mm)	6.5	14.5	27
Max load absorption @ 10 Hz forcing Hz	35%	75%	85%
Max load absorption @ 15 Hz forcing Hz	75%	90%	95%

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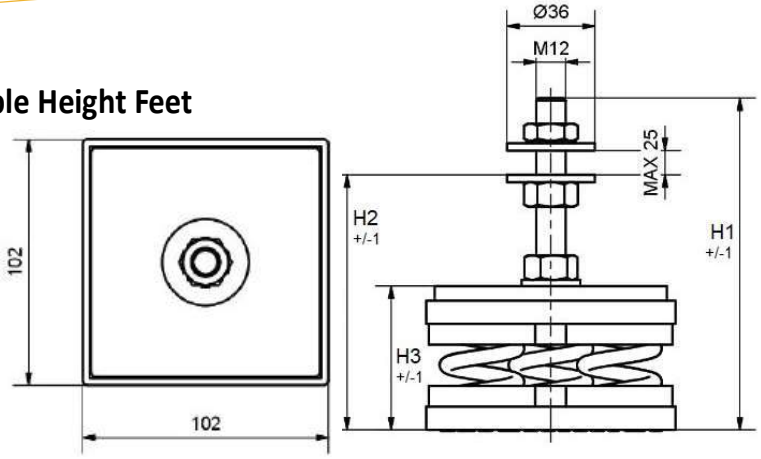
Mopla 5 - Coil Spring Mounts – 5 Spring Adjustable Height Feet

Height adjustable coil sprung foot. Springs are C85 steel with epoxy paint, other parts are elastomers, galvanised steel and metal inserts.



Part Name (A Series)	Max Load (daN)	Elastic constant (daN/mm)
SPR-V-M5-AdFt/A 110	110	16.9
SPR-V-M5-AdFt/A 140	140	21.5
SPR-V-M5-AdFt/A 160	160	24.6
SPR-V-M5-AdFt/A 180	180	27.7
SPR-V-M5-AdFt/A 200	200	30.8
SPR-V-M5-AdFt/A 220	220	33.8
SPR-V-M5-AdFt/A 240	240	36.9
SPR-V-M5-AdFt/A 260	260	40.0
SPR-V-M5-AdFt/A 290	290	44.6
SPR-V-M5-AdFt/A 330	330	50.8
SPR-V-M5-AdFt/A 380	380	58.5
SPR-V-M5-AdFt/A 420	420	64.6
SPR-V-M5-AdFt/A 460	460	70.8
SPR-V-M5-AdFt/A 510	510	78.5
SPR-V-M5-AdFt/A 540	540	83.1
SPR-V-M5-AdFt/A 560	560	86.2
SPR-V-M5-AdFt/A 600	600	92.3
SPR-V-M5-AdFt/A 650	650	100.0
SPR-V-M5-AdFt/A 690	690	106.2
SPR-V-M5-AdFt/A 750	750	115.4
SPR-V-M5-AdFt/A 810	810	124.6
SPR-V-M5-AdFt/A 860	860	132.3
SPR-V-M5-AdFt/A 920	920	141.5
SPR-V-M5-AdFt/A 970	970	149.2
SPR-V-M5-AdFt/A 1020	1020	156.9
SPR-V-M5-AdFt/A 1070	1070	164.6

Part Name (B Series)	Max Load (daN)	Elastic constant (daN/mm)
SPR-V-M5-AdFt/B 115	115	7.9
SPR-V-M5-AdFt/B 145	145	10.0
SPR-V-M5-AdFt/B 165	165	11.4
SPR-V-M5-AdFt/B 200	200	13.8
SPR-V-M5-AdFt/B 230	230	15.9
SPR-V-M5-AdFt/B 250	250	17.2
SPR-V-M5-AdFt/B 290	290	20.0
SPR-V-M5-AdFt/B 330	330	22.8
SPR-V-M5-AdFt/B 350	350	24.1
SPR-V-M5-AdFt/B 370	370	25.5
SPR-V-M5-AdFt/B 390	390	26.9
SPR-V-M5-AdFt/B 430	430	29.7
SPR-V-M5-AdFt/B 470	470	32.4
SPR-V-M5-AdFt/B 520	520	35.9
SPR-V-M5-AdFt/B 550	550	37.9
SPR-V-M5-AdFt/B 570	570	39.3
SPR-V-M5-AdFt/B 600	600	41.4
SPR-V-M5-AdFt/B 650	650	44.8
SPR-V-M5-AdFt/B 730	730	50.3
SPR-V-M5-AdFt/B 810	810	55.9
SPR-V-M5-AdFt/B 880	880	60.7
SPR-V-M5-AdFt/B 920	920	63.4
SPR-V-M5-AdFt/B 970	970	66.9
SPR-V-M5-AdFt/B 1050	1050	72.4

Part Name (C Series)	Max Load (daN)	Elastic constant (daN/mm)
SPR-V-M5-AdFt/C 220	220	8.1
SPR-V-M5-AdFt/C 270	270	10.0
SPR-V-M5-AdFt/C 320	320	11.9
SPR-V-M5-AdFt/C 390	390	14.4
SPR-V-M5-AdFt/C 430	430	15.9
SPR-V-M5-AdFt/C 480	480	17.8
SPR-V-M5-AdFt/C 540	540	20.0
SPR-V-M5-AdFt/C 580	580	21.5
SPR-V-M5-AdFt/C 610	610	22.6
SPR-V-M5-AdFt/C 730	730	27.0
SPR-V-M5-AdFt/C 780	780	28.9
SPR-V-M5-AdFt/C 830	830	30.7
SPR-V-M5-AdFt/C 910	910	33.7
SPR-V-M5-AdFt/C 1090	1090	40.4
SPR-V-M5-AdFt/C 1220	1220	45.2
SPR-V-M5-AdFt/C 1320	1320	48.9
SPR-V-M5-AdFt/C 1380	1380	51.1
SPR-V-M5-AdFt/C 1470	1470	54.4
SPR-V-M5-AdFt/C 1580	1580	58.5

H1 (overall unsprung height)	140	158	188
H2 (minimum unsprung load height)	87	105	135
H3 (unsprung body height)	63	81	111
Min forcing frequency (Hz) at max load	9	6	4.5
Deflection at Max Load (mm)	6.5	14.5	27
Max load absorption @ 10 Hz forcing Hz	35%	75%	85%
Max load absorption @ 15 Hz forcing Hz	75%	90%	95%

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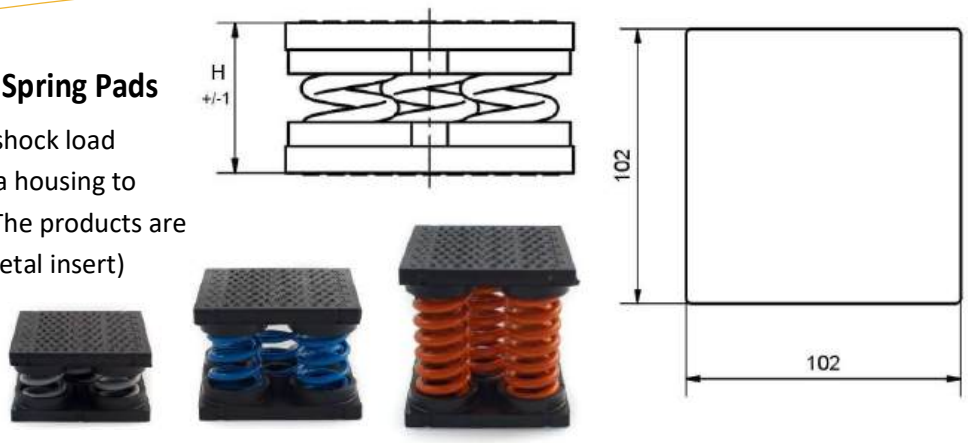
Mopla 5 - Coil Spring Mounts – 5 Spring Pads

This height coil sprung pad uses . For shock load applications these must be fitted into a housing to prevent potential lateral movement. The products are held in place by the Elastomer (with metal insert) which offers a level of grip.



Part Name (A Series)	Max Load (daN)	Elastic constant
SPR-V-M5-Pad/A 110	110	16.9
SPR-V-M5-Pad/A 140	140	21.5
SPR-V-M5-Pad/A 160	160	24.6
SPR-V-M5-Pad/A 180	180	27.7
SPR-V-M5-Pad/A 200	200	30.8
SPR-V-M5-Pad/A 220	220	33.8
SPR-V-M5-Pad/A 240	240	36.9
SPR-V-M5-Pad/A 260	260	40.0
SPR-V-M5-Pad/A 290	290	44.6
SPR-V-M5-Pad/A 330	330	50.8
SPR-V-M5-Pad/A 380	380	58.5
SPR-V-M5-Pad/A 420	420	64.6
SPR-V-M5-Pad/A 460	460	70.8
SPR-V-M5-Pad/A 510	510	78.5
SPR-V-M5-Pad/A 540	540	83.1
SPR-V-M5-Pad/A 560	560	86.2
SPR-V-M5-Pad/A 600	600	92.3
SPR-V-M5-Pad/A 650	650	100.0
SPR-V-M5-Pad/A 690	690	106.2
SPR-V-M5-Pad/A 750	750	115.4
SPR-V-M5-Pad/A 810	810	124.6
SPR-V-M5-Pad/A 860	860	132.3
SPR-V-M5-Pad/A 920	920	141.5
SPR-V-M5-Pad/A 970	970	149.2
SPR-V-M5-Pad/A 1020	1020	156.9
SPR-V-M5-Pad/A 1070	1070	164.6

Part Name (B Series)	Max Load (daN)	Elastic constant
SPR-V-M5-Pad/B 115	115	7.9
SPR-V-M5-Pad/B 145	145	10.0
SPR-V-M5-Pad/B 165	165	11.4
SPR-V-M5-Pad/B 200	200	13.8
SPR-V-M5-Pad/B 230	230	15.9
SPR-V-M5-Pad/B 250	250	17.2
SPR-V-M5-Pad/B 290	290	20.0
SPR-V-M5-Pad/B 330	330	22.8
SPR-V-M5-Pad/B 350	350	24.1
SPR-V-M5-Pad/B 370	370	25.5
SPR-V-M5-Pad/B 390	390	26.9
SPR-V-M5-Pad/B 430	430	29.7
SPR-V-M5-Pad/B 470	470	32.4
SPR-V-M5-Pad/B 520	520	35.9
SPR-V-M5-Pad/B 550	550	37.9
SPR-V-M5-Pad/B 570	570	39.3
SPR-V-M5-Pad/B 600	600	41.4
SPR-V-M5-Pad/B 650	650	44.8
SPR-V-M5-Pad/B 730	730	50.3
SPR-V-M5-Pad/B 810	810	55.9
SPR-V-M5-Pad/B 880	880	60.7
SPR-V-M5-Pad/B 920	920	63.4
SPR-V-M5-Pad/B 970	970	66.9
SPR-V-M5-Pad/B 1050	1050	72.4

Part Name (C Series)	Max Load (daN)	Elastic constant
SPR-V-M5-Pad/C 220	220	8.1
SPR-V-M5-Pad/C 270	270	10.0
SPR-V-M5-Pad/C 320	320	11.9
SPR-V-M5-Pad/C 390	390	14.4
SPR-V-M5-Pad/C 430	430	15.9
SPR-V-M5-Pad/C 480	480	17.8
SPR-V-M5-Pad/C 540	540	20.0
SPR-V-M5-Pad/C 580	580	21.5
SPR-V-M5-Pad/C 610	610	22.6
SPR-V-M5-Pad/C 730	730	27.0
SPR-V-M5-Pad/C 780	780	28.9
SPR-V-M5-Pad/C 830	830	30.7
SPR-V-M5-Pad/C 910	910	33.7
SPR-V-M5-Pad/C 1090	1090	40.4
SPR-V-M5-Pad/C 1220	1220	45.2
SPR-V-M5-Pad/C 1320	1320	48.9
SPR-V-M5-Pad/C 1380	1380	51.1
SPR-V-M5-Pad/C 1470	1470	54.4
SPR-V-M5-Pad/C 1580	1580	58.5

H (unsprung height, mm)	55	73	103
Min forcing frequency (Hz) at max load	9	6	4.5
Deflection at Max Load (mm)	6.5	14.5	27
Max load absorption @ 10 Hz forcing Hz	35%	75%	85%
Max load absorption @ 15 Hz forcing Hz	75%	90%	95%

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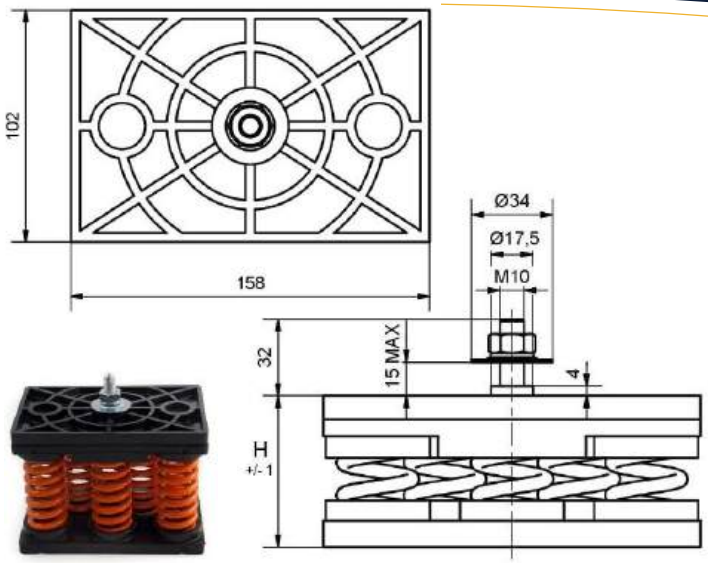
Mopla 8 - Coil Spring Mounts – 8 Spring Feet

This non-height adjustable coil sprung foot offers more lateral stability than a 5-spring foot and can take higher loads.



Part Name (A Series)	Max Load (daN)	Elastic constant
SPR-V-M8-Ft/A 160	160	24.6
SPR-V-M8-Ft/A 220	220	33.8
SPR-V-M8-Ft/A 280	280	43.1
SPR-V-M8-Ft/A 350	350	53.8
SPR-V-M8-Ft/A 450	450	69.2
SPR-V-M8-Ft/A 520	520	80.0
SPR-V-M8-Ft/A 560	560	86.2
SPR-V-M8-Ft/A 590	590	90.8
SPR-V-M8-Ft/A 630	630	96.9
SPR-V-M8-Ft/A 670	670	103.1
SPR-V-M8-Ft/A 700	700	107.7
SPR-V-M8-Ft/A 760	760	116.9
SPR-V-M8-Ft/A 830	830	127.7
SPR-V-M8-Ft/A 870	870	133.8
SPR-V-M8-Ft/A 940	940	144.6
SPR-V-M8-Ft/A 1040	1040	160.0
SPR-V-M8-Ft/A 1130	1130	173.8
SPR-V-M8-Ft/A 1240	1240	190.8
SPR-V-M8-Ft/A 1330	1330	204.6
SPR-V-M8-Ft/A 1430	1430	220.0
SPR-V-M8-Ft/A 1500	1500	230.8
SPR-V-M8-Ft/A 1600	1600	246.2
SPR-V-M8-Ft/A 1700	1700	261.5

Part Name (B Series)	Max Load (daN)	Elastic constant
SPR-V-M8-Ft/B 160	160	11.0
SPR-V-M8-Ft/B 210	210	14.5
SPR-V-M8-Ft/B 260	260	17.9
SPR-V-M8-Ft/B 300	300	20.7
SPR-V-M8-Ft/B 350	350	24.1
SPR-V-M8-Ft/B 400	400	27.6
SPR-V-M8-Ft/B 435	435	30.0
SPR-V-M8-Ft/B 470	470	32.4
SPR-V-M8-Ft/B 500	500	34.5
SPR-V-M8-Ft/B 550	550	37.9
SPR-V-M8-Ft/B 580	580	40.0
SPR-V-M8-Ft/B 620	620	42.8
SPR-V-M8-Ft/B 660	660	45.5
SPR-V-M8-Ft/B 690	690	47.6
SPR-V-M8-Ft/B 720	720	49.7
SPR-V-M8-Ft/B 750	750	51.7
SPR-V-M8-Ft/B 790	790	54.5
SPR-V-M8-Ft/B 840	840	57.9
SPR-V-M8-Ft/B 880	880	60.7
SPR-V-M8-Ft/B 950	950	65.5
SPR-V-M8-Ft/B 1040	1040	71.7
SPR-V-M8-Ft/B 1200	1200	82.8
SPR-V-M8-Ft/B 1350	1350	93.1
SPR-V-M8-Ft/B 1520	1520	104.8
SPR-V-M8-Ft/B 1700	1700	117.2

Part Name (C Series)	Max Load (daN)	Elastic constant
SPR-V-M8-Ft/C 330	330	12.2
SPR-V-M8-Ft/C 430	430	15.9
SPR-V-M8-Ft/C 540	540	20.0
SPR-V-M8-Ft/C 640	640	23.7
SPR-V-M8-Ft/C 750	750	27.8
SPR-V-M8-Ft/C 860	860	31.9
SPR-V-M8-Ft/C 940	940	34.8
SPR-V-M8-Ft/C 1000	1000	37.0
SPR-V-M8-Ft/C 1160	1160	43.0
SPR-V-M8-Ft/C 1300	1300	48.1
SPR-V-M8-Ft/C 1450	1450	53.7
SPR-V-M8-Ft/C 1600	1600	59.3
SPR-V-M8-Ft/C 1800	1800	66.7
SPR-V-M8-Ft/C 2000	2000	74.1
SPR-V-M8-Ft/C 2200	2200	81.5
SPR-V-M8-Ft/C 2400	2400	88.9
SPR-V-M8-Ft/C 2600	2600	96.3

H (unsprung height, mm)	68	86	116
Min forcing frequency (Hz) at max load	9	6	4.5
Deflection at Max Load (mm)	6.5	14.5	27
Max load absorption @ 10 Hz forcing Hz	35%	75%	85%
Max load absorption @ 15 Hz forcing Hz	75%	90%	95%

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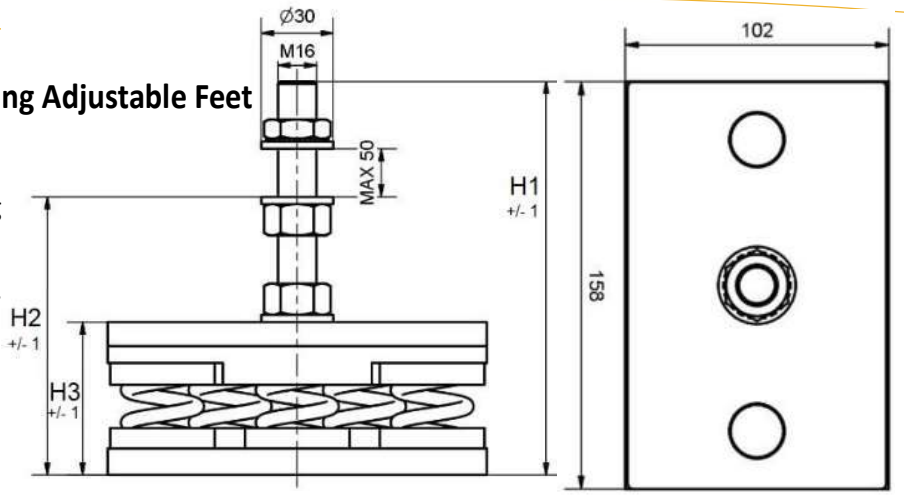
Mopla 8 - Coil Spring Mounts – 8 Spring Adjustable Feet

This height adjustable coil sprung foot offers more lateral stability than a 5-spring foot and can take higher loads.
There are 3 height variants of this product.



Part Name (A Series)	Max Load (daN)	Elastic constant
SPR-V-M8-AdFt/A 160	160	24.6
SPR-V-M8-AdFt/A 220	220	33.8
SPR-V-M8-AdFt/A 280	280	43.1
SPR-V-M8-AdFt/A 350	350	53.8
SPR-V-M8-AdFt/A 450	450	69.2
SPR-V-M8-AdFt/A 520	520	80.0
SPR-V-M8-AdFt/A 560	560	86.2
SPR-V-M8-AdFt/A 590	590	90.8
SPR-V-M8-AdFt/A 630	630	96.9
SPR-V-M8-AdFt/A 670	670	103.1
SPR-V-M8-AdFt/A 700	700	107.7
SPR-V-M8-AdFt/A 760	760	116.9
SPR-V-M8-AdFt/A 830	830	127.7
SPR-V-M8-AdFt/A 870	870	133.8
SPR-V-M8-AdFt/A 940	940	144.6
SPR-V-M8-AdFt/A 1040	1040	160.0
SPR-V-M8-AdFt/A 1130	1130	173.8
SPR-V-M8-AdFt/A 1240	1240	190.8
SPR-V-M8-AdFt/A 1330	1330	204.6
SPR-V-M8-AdFt/A 1430	1430	220.0
SPR-V-M8-AdFt/A 1500	1500	230.8
SPR-V-M8-AdFt/A 1600	1600	246.2
SPR-V-M8-AdFt/A 1700	1700	261.5

Part Name (B Series)	Max Load (daN)	Elastic constant
SPR-V-M8-AdFt/B 160	160	11.0
SPR-V-M8-AdFt/B 210	210	14.5
SPR-V-M8-AdFt/B 260	260	17.9
SPR-V-M8-AdFt/B 300	300	20.7
SPR-V-M8-AdFt/B 350	350	24.1
SPR-V-M8-AdFt/B 400	400	27.6
SPR-V-M8-AdFt/B 435	435	30.0
SPR-V-M8-AdFt/B 470	470	32.4
SPR-V-M8-AdFt/B 500	500	34.5
SPR-V-M8-AdFt/B 550	550	37.9
SPR-V-M8-AdFt/B 580	580	40.0
SPR-V-M8-AdFt/B 620	620	42.8
SPR-V-M8-AdFt/B 660	660	45.5
SPR-V-M8-AdFt/B 690	690	47.6
SPR-V-M8-AdFt/B 720	720	49.7
SPR-V-M8-AdFt/B 750	750	51.7
SPR-V-M8-AdFt/B 790	790	54.5
SPR-V-M8-AdFt/B 840	840	57.9
SPR-V-M8-AdFt/B 880	880	60.7
SPR-V-M8-AdFt/B 950	950	65.5
SPR-V-M8-AdFt/B 1040	1040	71.7
SPR-V-M8-AdFt/B 1200	1200	82.8
SPR-V-M8-AdFt/B 1350	1350	93.1
SPR-V-M8-AdFt/B 1520	1520	104.8
SPR-V-M8-AdFt/B 1700	1700	117.2

Part Name (C Series)	Max Load (daN)	Elastic constant
SPR-V-M8-AdFt/C 330	330	12.2
SPR-V-M8-AdFt/C 430	430	15.9
SPR-V-M8-AdFt/C 540	540	20.0
SPR-V-M8-AdFt/C 640	640	23.7
SPR-V-M8-AdFt/C 750	750	27.8
SPR-V-M8-AdFt/C 860	860	31.9
SPR-V-M8-AdFt/C 940	940	34.8
SPR-V-M8-AdFt/C 1000	1000	37.0
SPR-V-M8-AdFt/C 1160	1160	43.0
SPR-V-M8-AdFt/C 1300	1300	48.1
SPR-V-M8-AdFt/C 1450	1450	53.7
SPR-V-M8-AdFt/C 1600	1600	59.3
SPR-V-M8-AdFt/C 1800	1800	66.7
SPR-V-M8-AdFt/C 2000	2000	74.1
SPR-V-M8-AdFt/C 2200	2200	81.5
SPR-V-M8-AdFt/C 2400	2400	88.9
SPR-V-M8-AdFt/C 2600	2600	96.3

H1 (overall unsprung height)	168	186	216
H2 (minimum unsprung load height)	100	118	148
H3 (unsprung body height)	68	86	116
Min forcing frequency (Hz) at max load	9	6	4.5
Deflection at Max Load (mm)	6.5	14.5	27
Max load absorption @ 10 Hz forcing Hz	35%	75%	85%
Max load absorption @ 15 Hz forcing Hz	75%	90%	95%

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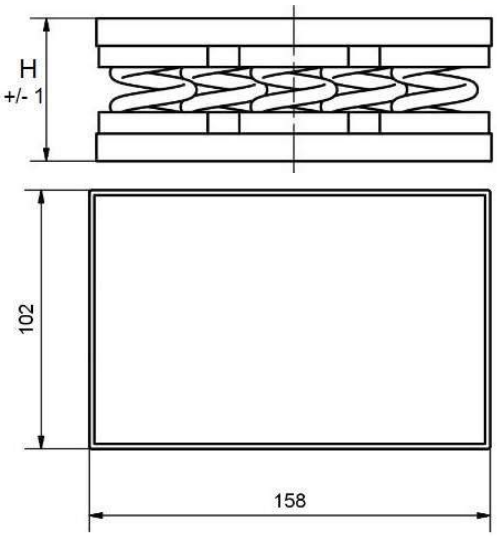
Mopla 8 - Coil Spring Mounts – 8 Spring Pads

This coil sprung pad offers more lateral stability than a 5- spring foot and can take higher loads.



Part Name (A Series)	Max Load (daN)	Elastic constant
SPR-V-M8-Pad/A 160	160	24.6
SPR-V-M8-Pad/A 220	220	33.8
SPR-V-M8-Pad/A 280	280	43.1
SPR-V-M8-Pad/A 350	350	53.8
SPR-V-M8-Pad/A 450	450	69.2
SPR-V-M8-Pad/A 520	520	80.0
SPR-V-M8-Pad/A 560	560	86.2
SPR-V-M8-Pad/A 590	590	90.8
SPR-V-M8-Pad/A 630	630	96.9
SPR-V-M8-Pad/A 670	670	103.1
SPR-V-M8-Pad/A 700	700	107.7
SPR-V-M8-Pad/A 760	760	116.9
SPR-V-M8-Pad/A 830	830	127.7
SPR-V-M8-Pad/A 870	870	133.8
SPR-V-M8-Pad/A 940	940	144.6
SPR-V-M8-Pad/A 1040	1040	160.0
SPR-V-M8-Pad/A 1130	1130	173.8
SPR-V-M8-Pad/A 1240	1240	190.8
SPR-V-M8-Pad/A 1330	1330	204.6
SPR-V-M8-Pad/A 1430	1430	220.0
SPR-V-M8-Pad/A 1500	1500	230.8
SPR-V-M8-Pad/A 1600	1600	246.2
SPR-V-M8-Pad/A 1700	1700	261.5

Part Name (B Series)	Max Load (daN)	Elastic constant
SPR-V-M8-Pad/B 160	160	11.0
SPR-V-M8-Pad/B 210	210	14.5
SPR-V-M8-Pad/B 260	260	17.9
SPR-V-M8-Pad/B 300	300	20.7
SPR-V-M8-Pad/B 350	350	24.1
SPR-V-M8-Pad/B 400	400	27.6
SPR-V-M8-Pad/B 435	435	30.0
SPR-V-M8-Pad/B 470	470	32.4
SPR-V-M8-Pad/B 500	500	34.5
SPR-V-M8-Pad/B 550	550	37.9
SPR-V-M8-Pad/B 580	580	40.0
SPR-V-M8-Pad/B 620	620	42.8
SPR-V-M8-Pad/B 660	660	45.5
SPR-V-M8-Pad/B 690	690	47.6
SPR-V-M8-Pad/B 720	720	49.7
SPR-V-M8-Pad/B 750	750	51.7
SPR-V-M8-Pad/B 790	790	54.5
SPR-V-M8-Pad/B 840	840	57.9
SPR-V-M8-Pad/B 880	880	60.7
SPR-V-M8-Pad/B 950	950	65.5
SPR-V-M8-Pad/B 1040	1040	71.7
SPR-V-M8-Pad/B 1200	1200	82.8
SPR-V-M8-Pad/B 1350	1350	93.1
SPR-V-M8-Pad/B 1520	1520	104.8
SPR-V-M8-Pad/B 1700	1700	117.2

Part Name (C Series)	Max Load (daN)	Elastic constant
SPR-V-M8-Pad/C 330	330	12.2
SPR-V-M8-Pad/C 430	430	15.9
SPR-V-M8-Pad/C 540	540	20.0
SPR-V-M8-Pad/C 640	640	23.7
SPR-V-M8-Pad/C 750	750	27.8
SPR-V-M8-Pad/C 860	860	31.9
SPR-V-M8-Pad/C 940	940	34.8
SPR-V-M8-Pad/C 1000	1000	37.0
SPR-V-M8-Pad/C 1160	1160	43.0
SPR-V-M8-Pad/C 1300	1300	48.1
SPR-V-M8-Pad/C 1450	1450	53.7
SPR-V-M8-Pad/C 1600	1600	59.3
SPR-V-M8-Pad/C 1800	1800	66.7
SPR-V-M8-Pad/C 2000	2000	74.1
SPR-V-M8-Pad/C 2200	2200	81.5
SPR-V-M8-Pad/C 2400	2400	88.9
SPR-V-M8-Pad/C 2600	2600	96.3

H (unsprung height, mm)	59	77	107
Min forcing frequency (Hz) at max load	9	6	4.5
Deflection at Max Load (mm)	6.5	14.5	27
Max load absorption @ 10 Hz forcing Hz	35%	75%	85%
Max load absorption @ 15 Hz forcing Hz	75%	90%	95%

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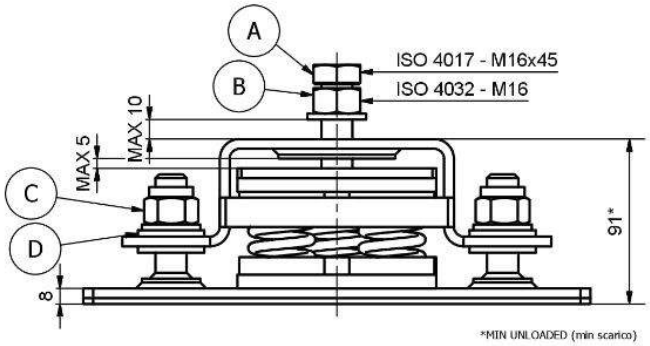
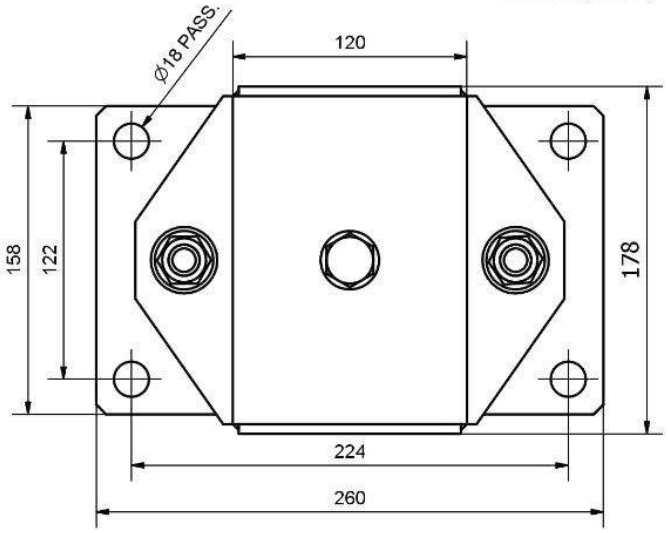
Mopla 8 - Coil Spring Mounts – 8 Spring Failsafe Pedestal

This failsafe pedestal spring mount offers a number of key features:

- Height adjustable for uneven floors
- Increased lateral stability due to the number of springs
- Low natural frequencies (down to 4Hz) at max load
- Failsafe retaining structure limits the movement in tension so will hold machinery in the event of tipping, strong winds or seismic activity.
- Anti slip matt on the underside of the product.
- Load capacities of up to 950 daN (~950 Kg) per mount.





Materials used offer a high level of resistance to weathering:

- Springs: Epoxy painted C85 Steel
- Skid proof matt: oil resistant elastomer
- Base: Elastomer with steel inserts
- Anti-Rollover restraint and screws: Galvanised steel.

Suggested Installation Instructions:

1. Fix the base plate into place.
2. Unscrew bolt A (note, the photo shows a simpler configuration.
3. Position the machinery to be isolated on the mount.
4. Add bolt A back into location and tighten until just before pre-compression starts.
5. If required, add pre-compression (up to 5mm) by tightening A. This is primarily for levelling purposes.
6. Tighten nut B to secure the load to the mount.
7. Tighten nuts C as required, but at most to the point where it is just touching D (if locked against D vibration absorption will be compromised).

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Mopla 8 - Coil Spring Mounts – 8 Spring Failsafe Pedestal (continued)

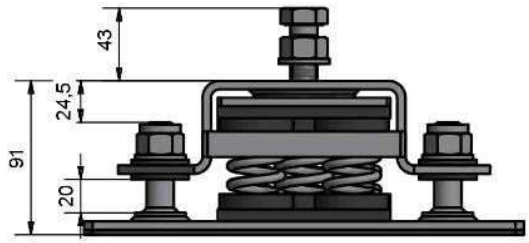
Part Name	Max Load (daN)	Elastic constant
SPR-V-M8-FS/B 160	160	11.0
SPR-V-M8-FS/B 210	210	14.5
SPR-V-M8-FS/B 260	260	17.9
SPR-V-M8-FS/B 300	300	20.7
SPR-V-M8-FS/B 350	350	24.1
SPR-V-M8-FS/B 400	400	27.6
SPR-V-M8-FS/B 435	435	30.0
SPR-V-M8-FS/B 470	470	32.4
SPR-V-M8-FS/B 500	500	34.5
SPR-V-M8-FS/B 550	550	37.9
SPR-V-M8-FS/B 580	580	40.0
SPR-V-M8-FS/B 620	620	42.8
SPR-V-M8-FS/B 660	660	45.5
SPR-V-M8-FS/B 690	690	47.6
SPR-V-M8-FS/B 720	720	49.7
SPR-V-M8-FS/B 750	750	51.7
SPR-V-M8-FS/B 790	790	54.5
SPR-V-M8-FS/B 840	840	57.9
SPR-V-M8-FS/B 880	880	60.7
SPR-V-M8-FS/B 950	950	65.5

Notes:

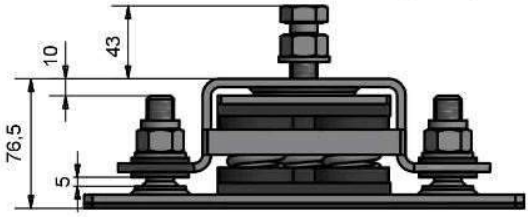
- Customised versions of this mount are available on request.
- Recommended loads are for indication purposes only. Please contact us with any queries.
- It is the customers responsibility to size the ground anchors appropriately for the loads to be carried.

Typical installation examples (incl. transport applications)

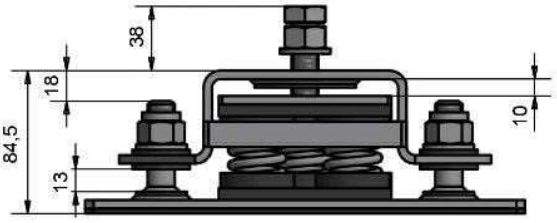
Typical configuration for transport applications



Maximum load installation (without height adjustment)



80% load installation (and 5mm max height adjustment)



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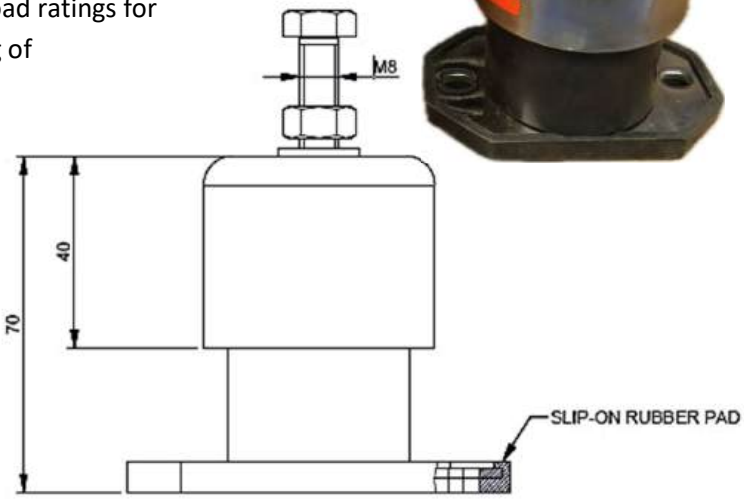
Enclosed Coil Spring Pedestal Mounts

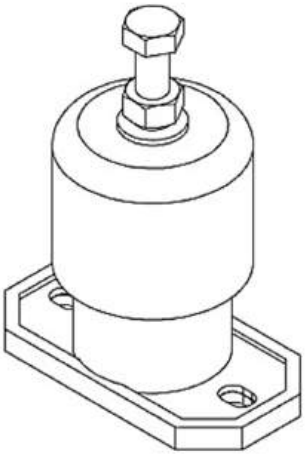
In some environments, an enclosed spring mount is preferred – this lowers the risk of foreign body fouling on the springs.

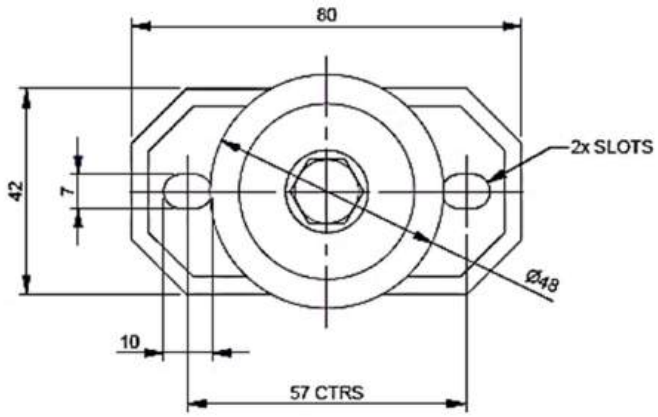
These mounts come in 3 different sizes, with a range of load ratings for each size. The overall recommended range is 5 – 1,400Kg of compressive load per mount.

NOTE: These mounts are not designed to work in shear or tension.

Pre-compression can be achieved on the mounts via the bolt in the upper mounting location. The nut on the same bolt is used to secure the load to the top of the mount.







Part Name	Recommended Load Range (Kg)		Deflection (mm)		Elastic constant (Kg/mm)	Min forcing freq (Hz)	
	Min	Max	Min load	Max load		Min load	Max load
SPR-W-Ped-L-10	5	10	10	20	0.5	8	6
SPR-W-Ped-L-15	7.5	15	10	20	0.75	8	6
SPR-W-Ped-L-20	10	20	10	20	1	8	6
SPR-W-Ped-L-40	20	40	10	20	2	8	6
SPR-W-Ped-L-70	35	70	10	20	3.5	8	6
SPR-W-Ped-L-100	50	100	10	20	5	8	6

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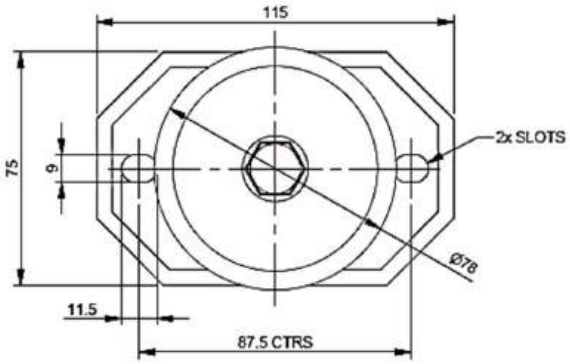
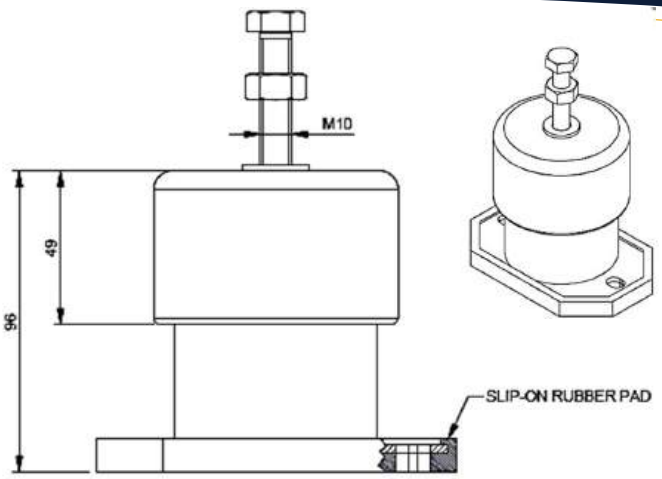
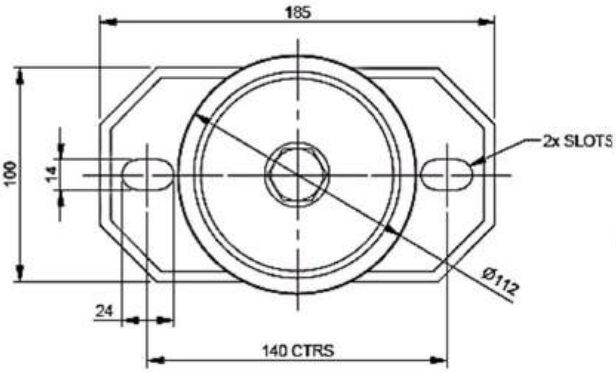
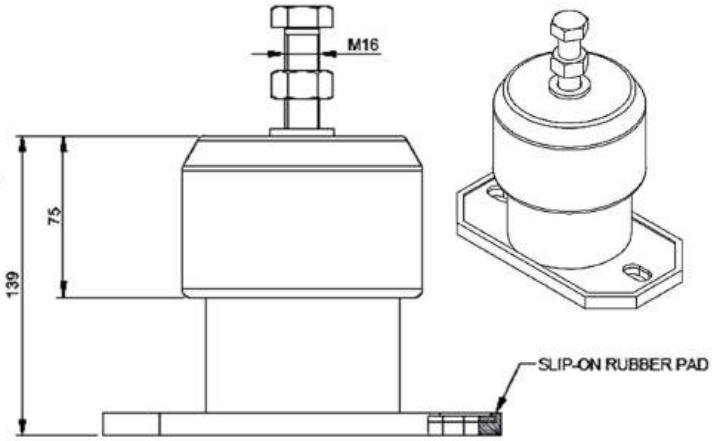
Enclosed Coil Spring Pedestal Mounts - continued





Part Name	Recommended Load Range (Kg)		Deflection (mm)		Elastic constant (Kg/mm)	Min forcing freq (Hz)	
	Min	Max	Min load	Max load		Min load	Max load
SPR-W-Ped-30	15	30	12.5	25	1.2	7	5
SPR-W-Ped-60	30	60	15	30	2	6.5	4.5
SPR-W-Ped-100	50	100	12.5	25	4	7	5
SPR-W-Ped-160	80	160	12.5	25	6.4	7	5
SPR-W-Ped-250	125	250	12.5	25	10	7	5





Part Name	Recommended Load Range (Kg)		Deflection (mm)		Elastic constant (Kg/mm)	Min forcing freq (Hz)	
	Min	Max	Min load	Max load		Min load	Max load
SPR-W-Ped-E-200	100	200	12.5	25	8	7	5
SPR-W-Ped-E-300	150	300	12.5	25	12	7	5
SPR-W-Ped-E-400	200	400	12.5	25	16	7	5
SPR-W-Ped-E-500	250	500	12.5	25	20	7	5
SPR-W-Ped-E-600	300	600	12.5	25	24	7	5
SPR-W-Ped-E-700	350	700	12.5	25	28	7	5
SPR-W-Ped-E-800	400	800	12.5	25	32	7	5
SPR-W-Ped-E-1000	500	1000	12.5	25	40	7	5
SPR-W-Ped-E-1400	700	1400	12.5	25	56	7	5

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AVMR Anti Vibration Methods

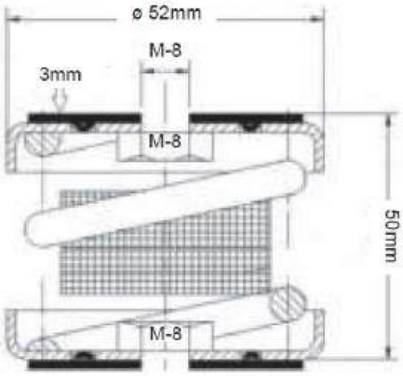
Basic Coil Spring Mounts – female-female bobbin

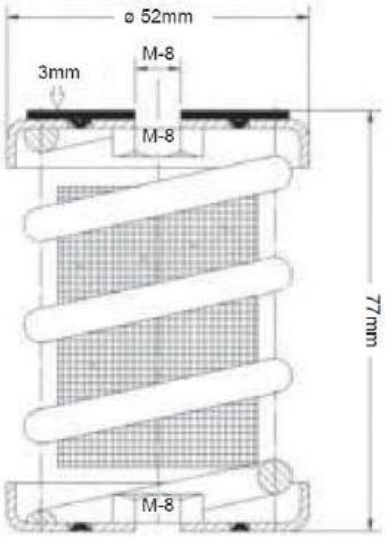
These basic coil spring mounts have the following key features:

- M8 female threads
- Plated/galvanised mild steel construction with rubber pads to reduce high frequency vibration transfer.
- Metallic mesh within the spring to help prevent fouling from foreign objects.
- 25mm of static deflection at max load gives a minimum forcing frequency of 5.5Hz.

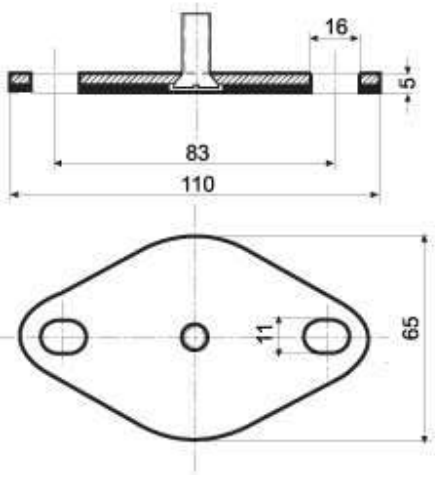
Note: These springs are designed to work in compression only – not in shear or tension, although some shear can be tolerated.

Part Name	Max Load (KG)	Elastic constant (Kg/mm)	Height (mm)
SPR-E-52-50-FF-30	30	2.1	50
SPR-E-52-50-FF-70	70	5.0	50
SPR-E-52-50-FF-125	125	8.3	50
SPR-E-52-77-FF-15	15	0.6	77
SPR-E-52-77-FF-25	25	1.0	77
SPR-E-52-77-FF-50	50	2.0	77
SPR-E-52-77-FF-75	75	3.0	77
SPR-E-52-77-FF-125	125	5.0	77





Optional Extra: A base plate (or two) can be added to each spring to make them pedestals or sandwich mounts. Enquire for more information.



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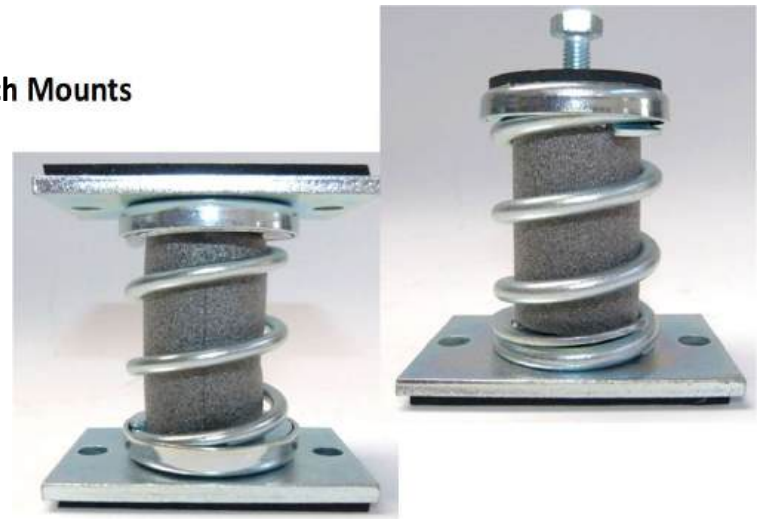
Basic Coil Spring Mounts – Pedestal and Sandwich Mounts

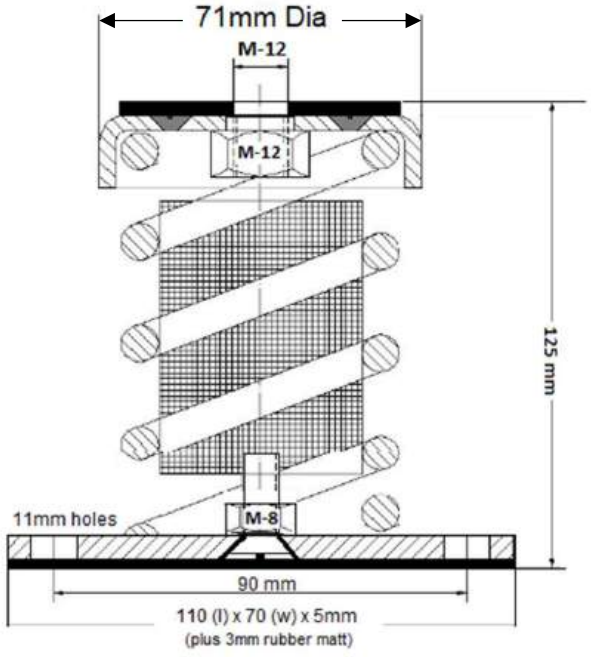


These basic coil spring mounts have the following key features:

- M8 female threads
- Plated/galvanised mild steel construction with rubber pads to reduce high frequency vibration transfer.
- Metallic mesh within the spring to help prevent fouling from foreign objects.
- 30mm of static deflection at max load gives a minimum forcing frequency of 4.5Hz.

Note: These springs are designed to work in compression only – not in shear or tension, although some shear can be tolerated.

Part Name	Max Load (KG)	Elastic constant (Kg/mm)
Pedestal Variant		
SPR-E-Ped-150	150	5.0
SPR-E-Ped-200	200	6.7
SPR-E-Ped-250	250	8.3
SPR-E-Ped-350	350	11.7
SPR-E-Ped-450	450	15.0
Sandwich Variant		
SPR-E-Sand-150	150	5.0
SPR-E-Sand-200	200	6.7
SPR-E-Sand-250	250	8.3
SPR-E-Sand-350	350	11.7
SPR-E-Sand-450	450	15.0



Sandwich Mount: The sandwich mount variant is created by adding a second base plate. This increases the unsprung height by 5mm.

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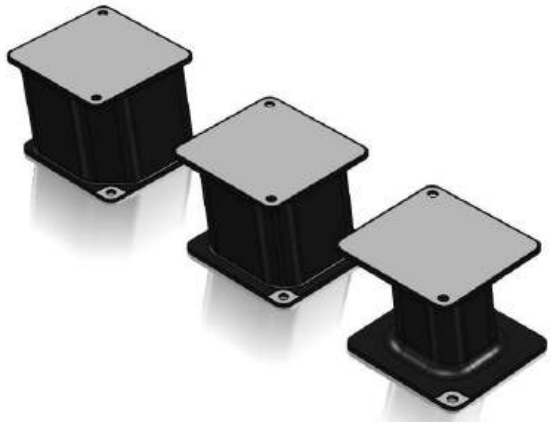
Sandwich Mounts

Premium Offset Sandwich Mounts (SW-R Mounts)

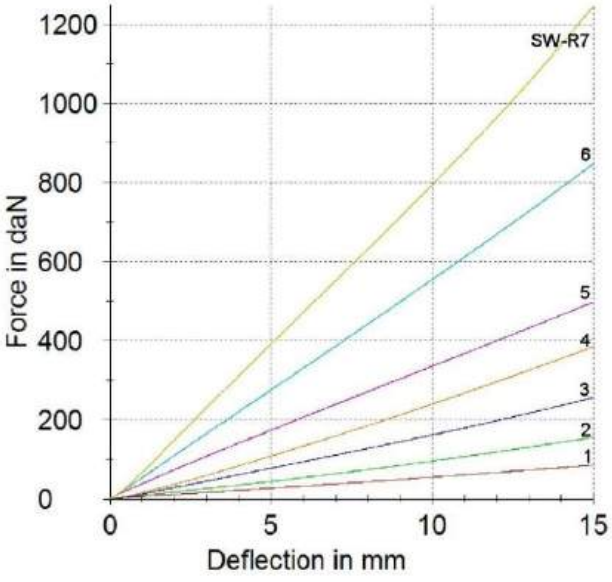


This range of high deflection anti-vibration sandwich mountings covers a standard compressive load range between 50 and 1200Kg per mount. The can also be used in shear.

Optimum deflection is 15mm thus providing very high levels of isolation (97% @1500rpm or equivalent forcing frequency)

The different designations R1 to R7 are created by using different cross sections* and rubber compounds.

The mountings can be used as conventional compression mounts or as shear mounts when reduced loading or higher deflection is required.



Materials

Standard materials for this mount are natural rubber (polyisoprene) and grade 316 stainless steel for the top and bottom plates.

These AV mounts can be produced in other materials including NBR, CR, EPDM and others please enquire for more information.

Products

Part Name	Recommended Load Rage (Kgs)		Deflection at Max Load (mm)	Elastic constant (kg/mm)
	Min	Max		
SW-R 1	30	90	15	6.0
SW-R 2	90	150	15	10.0
SW-R 3	150	250	15	16.7
SW-R 4	250	360	15	24.0
SW-R 5	360	490	15	32.7
SW-R 6	490	840	15	56.0
SW-R 7	840	1200	14	85.7
Note: This information is for compressive vibration				

Loading

Whilst the max recommended deflection is 15mm (14 for R7 variant), for shock occasional loads these mounts can deflect up to 25mm.

When used in shear, divide the loads by 6 for a comparable deflection. E.g , the max load for the SW-R7 version is 1200/6 = 200Kg approximately.

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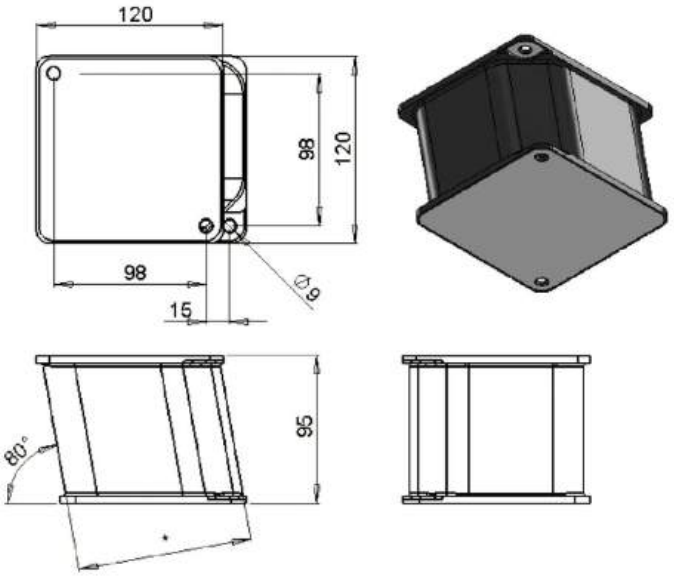

Applications

This style of mount is typically used for static vibratory application including vibratory feeders, sieves, conveyors and machinery. However, they are highly effective at supporting any vibration or shock application.

Installation

These mounts are attached to the floor and the isolated equipment by 4 x M8 bolts; 2 on each side. All versions have the same outer dimensions and fixing plates.

The top and bottom plates are offset by 15mm.

For most applications pairs of mounts are used such that the 10degree angles are in opposite directions in each pair. Where the mounts form part of a vibratory feeding system, the mounts can be oriented to accentuate the deflection in

Typical orientation

For grading machines, sieves and other forms of shaker table, these mounts will typically be orientated in the same direction.

For floor mounted installations such as conveyors, pumps, generators etc, the installation would use opposing pairs of mounts as illustrated here.

For suspended loads or where a shear style is required for softer isolation, the mounts can again be used in opposing pairs as illustrated here. This example would suit an application where the centre of mass is high relative to the base foot-print. Otherwise a single set of mounts could be used in line with, or above, the centre of mass

The base of a generator, where mounts were added in pairs facing each other.

The base of a tower application with a high centre of gravity. Mounts are 'leaning into' the vertical load.