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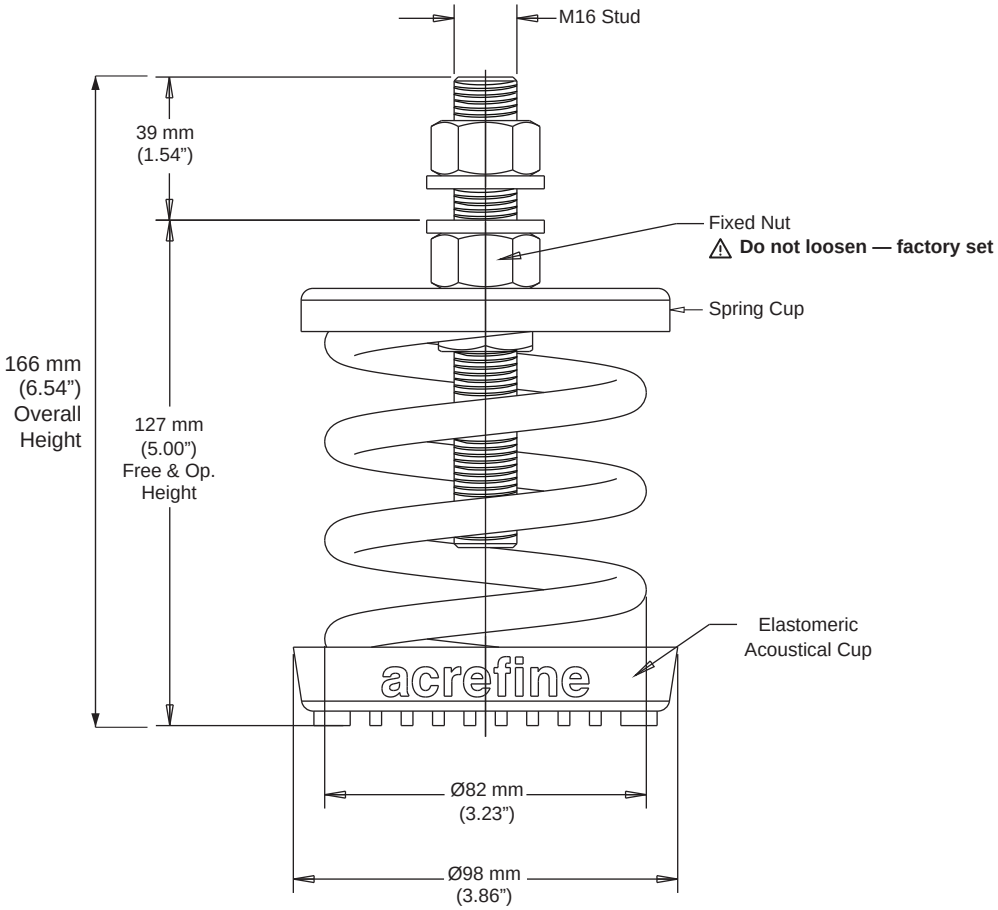
REV	DESCRIPTION	DATE	BY	APP'L
4	Load table, isolation curve and notes revised.	11.11.2026	MMD	EK

APPROVED DRAWING
EK
11.11.2026
CAD



ISOLATOR PROPERTIES

ISOLATOR TYPE	Load Capacity (kg)	Load Capacity (lb)	Outer Spring Colour	Inner Spring Colour	Unit weight (kg)
AVI-S-1B-70	70	154	Green	—	1.17
AVI-S-1B-95	95	209	Green	Green	1.32
AVI-S-1B-120	120	265	Green	Yellow	1.49
AVI-S-1B-140	140	309	Yellow	—	1.30
AVI-S-1B-165	165	364	Yellow	Green	1.46
AVI-S-1B-190	190	419	Yellow	Yellow	1.62
AVI-S-1B-230	230	507	Blue	—	1.42
AVI-S-1B-255	255	562	Blue	Green	1.57
AVI-S-1B-280	280	617	Blue	Yellow	1.74
AVI-S-1B-370	370	816	Blue	Red	1.71
AVI-S-1B-460	460	1014	Beige	—	1.61
AVI-S-1B-510	510	1125	Beige	Yellow	1.94
AVI-S-1B-640	640	1411	Red	—	1.69
AVI-S-1B-820	820	1808	White	—	1.87
AVI-S-1B-960	960	2117	White	Red	2.16
AVI-S-1B-1140	1140	2514	White	Orange	2.38
AVI-S-1B-1280	1280	2822	White	Brown	2.38

Spring colours are identification codes; printed colours are indicative only.

NOTES:
1. Specified Load Capacity is the maximum allowable load for a single isolator and this value must not be exceeded.
2. The load capacities apply where the isolator carries its nominal deflection of 25 mm (1"). At part load the deflection is smaller, the natural frequency is higher and isolation at a given speed is lower.
3. Overall height is measured from the base to the top of the stud. It is the set-up height at nominal deflection: the springs compress as the equipment is placed, and the height is restored by winding each spring cup down its stud.
4. Unit weight is the weight of the isolator alone; packaging is not included.
5. Isolators must be installed per Installation Instruction 9110.
6. For correct installation, refer to the instructional video at: https://www.youtube.com/watch?v=MXNaMSJzCEc

POD
PERFORMANCE OUTLINE DRAWING

AVI-S-1B Type Open Spring Isolator with 1" Deflection

ACREFINE ENGINEERING

PROJECT INFORMATION

CUSTOMER		PROJECT NAME	
ENGINEER			
DATE		LOCATION	
PROJECT No.			

DRAWING No.	8151	REV
DRAWN BY	MMD	4
DATE	11.11.2026	
SCALE	NTS	Page 1 of 2

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REV	DESCRIPTION	DATE	BY	APP'L
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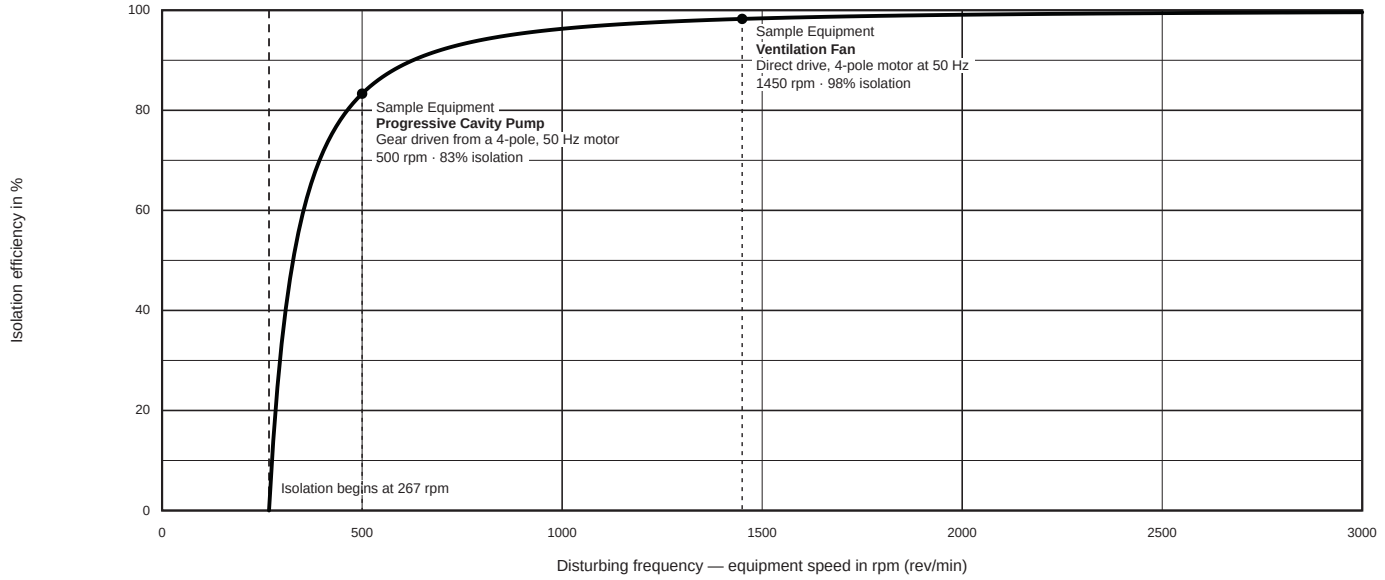
Vibration Isolation Performance of AVI-S-1B Type Open Spring Isolator



NOTES:

1. The curve applies at the Specified Load Capacity, where the isolator carries its nominal deflection of 25 mm (1") and a natural frequency of 3.15 Hz. At part load the deflection is smaller, the natural frequency is higher and isolation at a given speed is lower.
2. Efficiency is calculated for an undamped single-degree-of-freedom system on a rigid support: $T = 1 / ((f/fn)^2 - 1)$, efficiency = $(1 - T) \times 100$. Below 267 rev/min the isolator amplifies, not isolates.
3. A supporting floor that is not stiff relative to the isolator will reduce the efficiency shown.
4. Sample equipment is shown to illustrate typical operating speeds only.

Disclaimer: The information provided in these technical documents constitutes a summary related to the product itself and not the intended application. We do recommend that you seek further advice regarding actual field application from our engineers or authorised partners. The latest version of this document is available to download from www.acrefine.com.

POD
PERFORMANCE OUTLINE DRAWING

AVI-S-1B Type Open Spring Isolator with 1" Deflection

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