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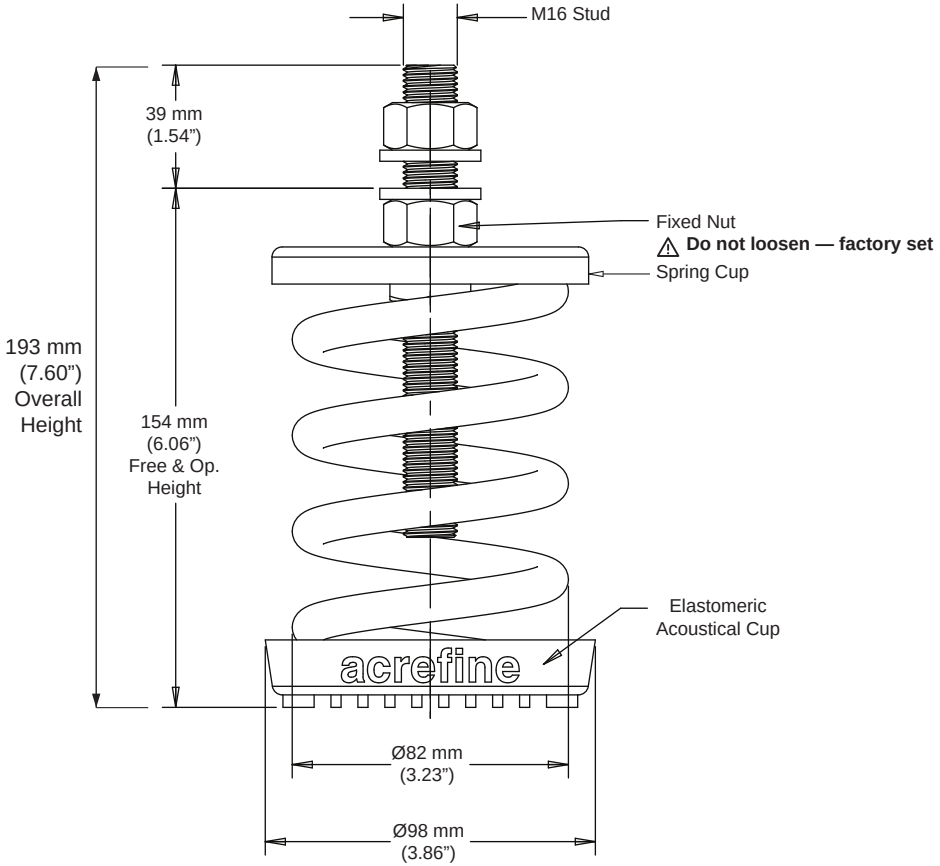
REV	DESCRIPTION	DATE	BY	APP'L
3	Load table, isolation curve and notes revised.	11.11.2026	MMD	EK

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-2A-35	35	77	White	—	0.92
AVI-S-2A-60	60	132	Black	—	1.08
AVI-S-2A-95	95	209	Green	—	1.07
AVI-S-2A-110	110	243	Black	Green	1.41
AVI-S-2A-145	145	320	Green	Green	1.40
AVI-S-2A-185	185	408	Yellow	—	1.32
AVI-S-2A-235	235	518	Yellow	Green	1.65
AVI-S-2A-275	275	606	Blue	—	1.41
AVI-S-2A-325	325	717	Blue	Green	1.74
AVI-S-2A-370	370	816	Beige	—	1.50
AVI-S-2A-420	420	926	Beige	Green	1.83
AVI-S-2A-460	460	1014	Red	—	1.65
AVI-S-2A-550	550	1213	Yellow	Blue	1.85
AVI-S-2A-640	640	1411	Blue	Blue	1.94
AVI-S-2A-735	735	1621	Beige	Blue	2.03
AVI-S-2A-825	825	1819	Red	Blue	2.18

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 50 mm (2"). 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-2A Type Open Spring Isolator with 2" Deflection

ACREFINE ENGINEERING

PROJECT INFORMATION

CUSTOMER		PROJECT NAME	
ENGINEER			
DATE		LOCATION	
PROJECT No.			

DRAWING No.	8152	REV
DRAWN BY	MMD	3
DATE	11.11.2026	
SCALE	NTS	Page 1 of 2

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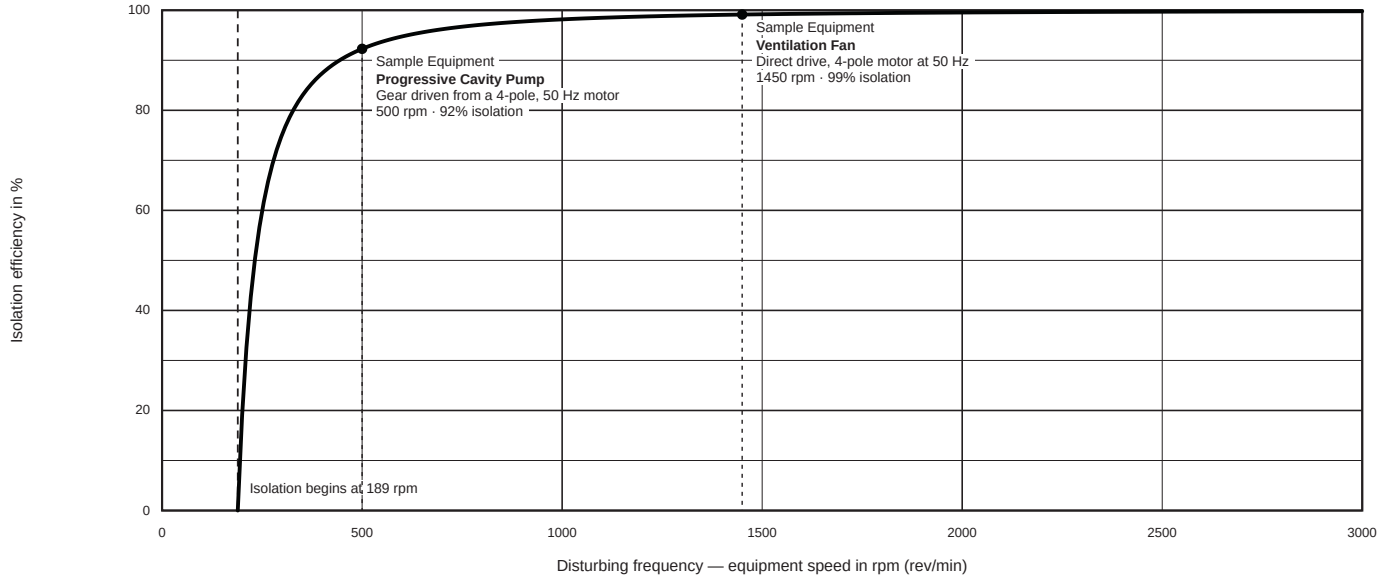
REV	DESCRIPTION	DATE	BY	APP'L
3	Load table, isolation curve and notes revised.	11.11.2026	MMD	EK

Vibration Isolation Performance of AVI-S-2A Type Open Spring Isolator



NOTES:

1. The curve applies at the Specified Load Capacity, where the isolator carries its nominal deflection of 50 mm (2") and a natural frequency of 2.23 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 189 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-2A Type Open Spring Isolator with 2" Deflection

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