

DVIA-MB Series

Base Active Vibration Isolation Platform

User Manual




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	CAUTION RISK OF ELECTRICAL SHOCK DO NOT OPEN	
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.</p>		
	AVIS RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR	
<p>ATTENTION : POUR RÉDUIRE LE RISQUE DE DÉCHARGE ÉLECTRIQUE, NE RETIREZ PAS LE COUVERCLE (OU L'ARRIÈRE). IL NE SE TROUVE À L'INTÉRIEUR AUCUNE PIÈCE POUVANT ÊTRE RÉPARÉE PAR L'USAGER. S'ADRESSER À UN RÉPARATEUR COMPÉTENT.</p>		

Model No.		DVIA-MB1000	DVIA-MB3000	DVIA-MB6000
Dimensions (W x D x H)	Isolator Unit	180 x 180 x 180 mm	232 x 232 x 180 mm	308 x 308 x 180 mm
	Platform	Customize to Fit		
Maximum Load Capacity		500 – 1700 kg	1500 – 3500 kg	3000 – 6000 kg
Actuator		Electromagnetic Actuator		
Maximum Actuator Force		Vertical : 40 N, Horizontal : 20 N		Vertical : 80 N Horizontal : 40 N
Active Isolation Range		0.5 – 100 Hz		
Degrees of Freedom		6 degrees		
Vibration Isolation Performance		≥90% at 2 Hz / 99% at 10 Hz		
Settling Time		≤0.3 sec*		
Input Voltage (V)		AC100 – 240 V / 50 – 60 Hz / 1A		
Power Consumption (W)		Maximum 110 W , Below 50 W in normal operation		
Operating Range	Temperature (°C)	5 – 50 °C		
	Humidity (%)	20 – 90%		
Required Air Pressure		≥5 kg/cm ²		

*0.3 sec settling time is measured after 90% reduction of input. (The settling time varies with several conditions, such as payload, force, natural frequency, etc.)

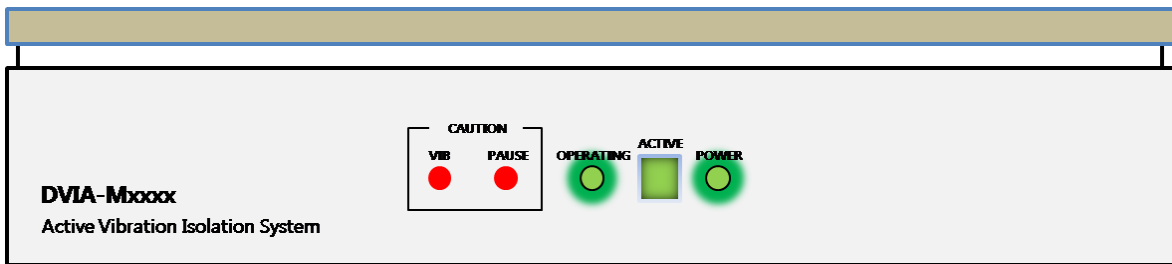
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1. Installation Site Requirement

The DVIA-MB series must be installed on concrete, laminate, tile or rigid floor. Carpeted or raised floor (access floor) should be avoided. The installation floor must be flat within 0.5 mm over the area of the active vibration isolation platform.

2. Component



< Front View >



< Back View >

1) Active Vibration Isolators

The DVIA-MB Series consists of 4 units of the DVIA-M isolators.

2) Controller

The DVIA-MB series has a built-in controller.

3) Leveling Valves

3 units of leveling valves are attached with the DVIA-M isolators, automatically adjusting its level.

4) Air Pressure Regulator

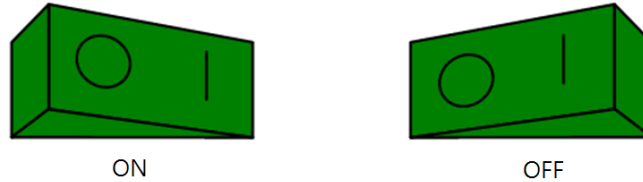
An air pressure regulator controls the input air pressure to vibration isolators.

5) Ø6 airline tubing

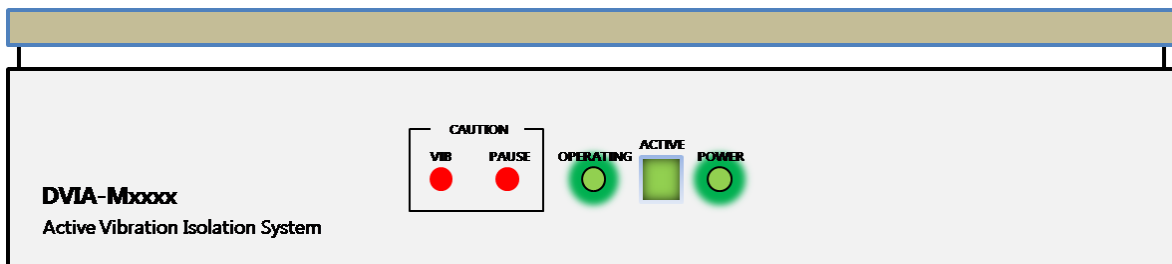
Ø6 airline tubing is provided to connect compressed air to the active vibration isolators.

3. How to Operate

- 1) Turn on air and adjust input air pressure gauge to indicate 5 to 6 bar.
- 2) Turn power on by pressing ON/OFF switch on back panel of the DVIA-MB.



- 3) POWER indicator on front panel turns green when power is properly on. Wait for 3 seconds for Enable indicator to turn solid



- 4) Press and hold ACTIVE button on the front panel for 5 seconds. Make sure that ACTIVE button turns solid green.
- 5) As ACTIVE button indicator turns off, OPERATING power indicator turns solid green indicating the active vibration isolation is operational.
- 6) PAUSE indicator turning red indicates a shutdown of the active vibration isolation system. A VIB indicator turns red when the active vibration isolation system detects large vibration amplitude and PAUSE indicator keep illuminates red until the active vibration isolation is stable enough to operate in a normal condition.

4. How to Turn OFF

- 1) Press and hold ACTIVE button on the front panel for 5 seconds. Make sure that ACTIVE button does not illuminate green light.
- 2) Press ON/OFF switch on back panel to turn off power.
- 3) Press ON/OFF switch on back panel to turn off power.
- 4) Turn off air supply and let the active vibration isolators to be complete deflated.

5. Troubleshooting

1) PAUSE indicator remains red after the active vibration isolation is activated.

⇒ Cycle POWER switch off and on the active vibration isolation system again.

⇒ Make sure that the active vibration isolators are floating properly.

⇒ Make sure that the air pressure regulator gauge on the back panel is indicating a minimum of 5 bar

Please contact DAEIL SYSTEMS, if you experience any issues with our products.

Email: internationalsales@daeilsys.com

DAEIL SYSTEMS LIMITED WARRANTY

DAEIL SYSTEMS warrants any defects in material and workmanship under normal use for one year from the date of original retail purchase by the original end-user purchaser. During this warranty period, DAEIL SYSTEMS will only repair or replace DAEIL SYSTEMS products at no cost only if products are not subject to abuse, misuse, neglect, carelessness, accident, alteration, fire, repair or other external factors. To employ DAEIL SYSTEMS warranty service, contact DAEIL SYSTEMS to get the best course of action. Replaced or repaired DAEIL SYSTEMS products are warranted for the remainder of the original warranty period.

Limitation of Warranty

TO THE EXTENT PERMITTED BY LAW, THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES, AND WE SPECIFICALLY DISCLAIM ALL STATUTORY OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND AGAINST HIDDEN OR LATENT DEFECTS. IF WE CANNOT LAWFULLY DISCLAIM STATUTORY OR IMPLIED WARRANTIES, THEN TO THE EXTENT PERMITTED BY LAW, ALL SUCH WARRANTIES SHALL BE LIMITED IN DURATION TO THE DURATION OF THIS EXPRESS LIMITED WARRANTY AND TO REPAIR OR REPLACEMENT SERVICE AS DETERMINED BY DAEIL SYSTEMS IN ITS SOLE DISCRETION.

DANS LES LIMITES AUTORISÉES PAR LA LOI, LA GARANTIE ET LES RECOURS VISÉS CI-DESSUS SONT EXCLUSIFS ET REMPLACENT TOUTES LES AUTRES GARANTIES ET RECOURS, ET NOUS DÉCLINONS SPÉCIFIQUEMENT TOUTES LES GARANTIES IMPLICITES, Y COMPRIS, MAIS NON LIMITÉES, DES GARANTIES OBJET PARTICULIER ET CONTRE LES DÉFAUTS CACHÉS OU LATENTS. SI NOUS NE POUVONS PAS DÉCLARER JUSTE LES GARANTIES STATUTAIRES OU IMPLICITES, ALORS DANS LA MESURE AUTORISÉE PAR LA LOI, TOUTES CES GARANTIES SERONT LIMITÉES À LA DURÉE DE CETTE GARANTIE LIMITÉE EXPRESSE ET À RÉPARATION OU SERVICE DE REMPLACEMENT TELS QUE DÉTERMINÉS PAR LA GARANTIE.

DVIA-MB1000

Manufacturer : DAEIL SYSTEMS CO.,LTD

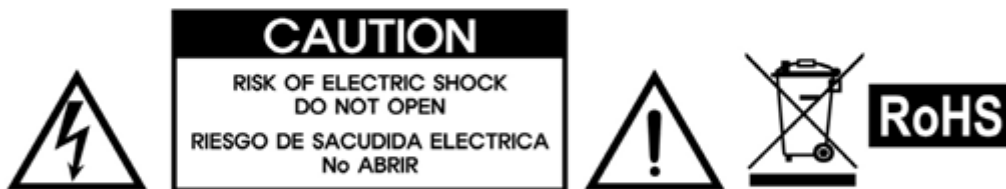
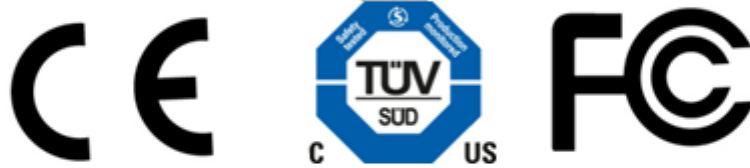
Product Name : VIBRATION ISOLATOR

Model Name : DVIA-MB1000

Power Supply : 100~240V~, 50/60Hz

Rated Current : 1A

Serial No :



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