

# CVIP<sub>1</sub> – CRYOGENIC VIBRATION ISOLATOR PLATFORM 1



## Features

- 3 DoF vibration attenuation inside the cryostat
- Placed between cold plate and experiment
- High insensitivity to cables and thermal braids
- Compatible with JPE's CPSHR1 stage
- High Q factor (no forced damping)
- Non-magnetic
- Large central open aperture

## Description / Applications

The CVIP<sub>1</sub> is part of the CVIP series, a general use passive vibration isolation platform that is placed directly on the cold plate and carries the experiment, thus reducing z, Rx and Ry vibrations into the experiment. For practicality and ease of use the cut-off frequency, above which vibrations are attenuated, is designed in the tens of Hertz range thereby accepting transmittance of the less critical low frequency vibrations but enabling a substantial payload and having reduced sensitivity for attached wiring.

## Specifications

| General info                         |                                                                             |
|--------------------------------------|-----------------------------------------------------------------------------|
| Isolated axes                        | Z, Rx and Ry                                                                |
| Dimensions                           | See drawings below                                                          |
| Operational environmental conditions | 20 mK to 375 K, ambient to UHV                                              |
| Weight                               | 0,15 kg                                                                     |
| Frequencies and load capacity        |                                                                             |
| Payload                              | 0,5 kg                                                                      |
| Cut-off frequencies                  | Z: 42 Hz / Rx: 12 Hz / Ry 12 Hz (max payload, centered 35mm above platform) |
| Mechanical end stops                 | +/-0.5 mm                                                                   |
| Materials                            |                                                                             |
| Construction                         | Phosphor bronze                                                             |
| Model specific information           |                                                                             |
| -V, -HV or -UHV                      | Level of vacuum compatibility, see the glossary on the homepage for details |

## Ordering Information

### Available Models

CVIP1-UHV Cryogenic Vibration Isolator Platform 1

### Available Options

None Default delivery condition is Ultra High Vacuum compatible

### Accessories

None

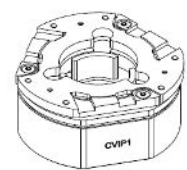
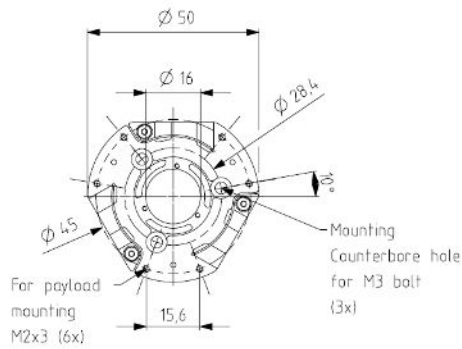
### Mechanical and electrical information

Download 3D step files and manuals from:  
<https://www.jpe-innovations.com/cryo-nano-products/>

### Contact

For quotations, specials, or engineering services, please contact us at:  
<https://www.jpe-innovations.com/contact/>

## Drawings



| PROJ.       | SCALE | PART NAME                                 | PART NUMBER     |
|-------------|-------|-------------------------------------------|-----------------|
| 2170-001-01 | 1:1   | CVIP1                                     | 001245          |
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