

## THS2 series standard pneumatic vibration isolator

The THS2 series is a standard pneumatic vibration isolator offer fast settling time and excellent isolation performance with its special interior structures.



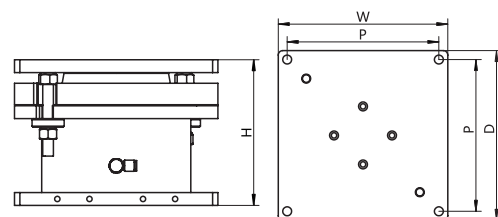
### Product Introduction

THS2 series offer excellent isolation performance in both horizontal/vertical level.

The dual chamber system of THS2 consists of an air chamber and a damping chamber connected by two orifices, which can effectively reduce the isolation transmitted, shorten the settling time of the platform and lower the Natural frequency.

If higher level of repeatability and better Isolation performance is required, the precision leveling valve with repeatability of 0.05mm can be equipped with the vibration isolation system.

THS2 pneumatic isolators incorporating the built-in oil damper can shorten the settling time of the equipment with linear stage, and increase the stiffness of the platform.



### Product Application

Panel equipment, Optical equipment, Testing equipment, Semi-conductor equipment, Medical Aerospace and military industry, Precision motion platform etc.

### Isolation type: pneumatic

Natural frequency: horizontal/vertical =2.5-3Hz  
Isolation performance: 80-90% at 10Hz

Automatic leveling: Yes

Standard Leveling Repeatability: ±0.1mm High Precision Leveling Repeatability: ±0.05mm

### Main parameter

Note: the height (H) is the inflatable height, and the uninflatable height is reduced by 10mm.  
The best selection is according to 70% - 80% of the load, the air pressure is between 0.3 and 0.4Mpa.

| Model       | Size WxDxH(mm) | Installation Size PxP(mm) | Installation aperture(φ) | Weight(kg) | Load(kg)  |
|-------------|----------------|---------------------------|--------------------------|------------|-----------|
| THS 2-100Z  | 150*150*136    | 130*130                   | 10                       | 12         | 70~100    |
| THS 2-300Z  | 190*190*136    | 170*170                   | 10                       | 19.5       | 210~300   |
| THS 2-500Z  | 235*235*173    | 205*205                   | 14                       | 25         | 350~550   |
| THS 2-800Z  | 275*275*193    | 245*245                   | 14                       | 35         | 560~850   |
| THS 2-1200Z | 300*300*193    | 265*265                   | 14                       | 42         | 840~1200  |
| THS 2-1500Z | 310*310*193    | 280*280                   | 14                       | 50         | 1050~1500 |
| THS 2-2000Z | 360*360*193    | 325*325                   | 18                       | 75         | 1400~2000 |
| THS 2-2500Z | 395*395*193    | 350*350                   | 18                       | 90         | 1750~2500 |
| THS 2-3000Z | 445*445*193    | 400*400                   | 18                       | 108        | 2100~3000 |
| THS 2-4500Z | 450*450*193    | 400*400                   | 18                       | 110        | 3150~4500 |

## THS3 series advanced pneumatic vibration isolator

Multi-directional ball-type design makes the natural frequency of the vibration isolation system lower, thus results in better performance in both vertical and horizontal direction.

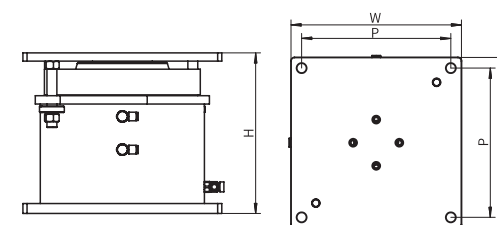


### Product Introduction

Multi-directional ball-type design makes the natural frequency of the vibration isolation system lower, thus results in better performance in both vertical and horizontal direction.

For better repeatability, precision leveling valves of 0.05mm should be installed.

THS3 series can be used with external oil damper, it will shorten the settling time of the moving platform and increase the stiffness of the system.



### Product Application

The panel industry, optical equipment, testing equipment, semi-conductor equipment, medical equipment, aerospace and military equipment, precision moving platform.

### Isolation type: pneumatic

Natural frequency: horizontal/vertical =1.5-2Hz  
Isolation performance: 90-99% at 10Hz

Automatic leveling: Yes

Standard Leveling Repeatability: ±0.1mm High Precision Leveling Repeatability: ±0.05mm

### Main parameter

Note: the height (H) is the inflatable height, and the uninflatable height is reduced by 10mm.  
The best selection is according to 70% - 80% of the load, the air pressure is between 0.3 and 0.4Mpa.

| Model      | Size WxDxH(mm) | Installation Size PxP(mm) | Installation aperture(φ) | Weight(kg) | Load(kg)  |
|------------|----------------|---------------------------|--------------------------|------------|-----------|
| THS3-300Z  | 190*190*180    | 166*166                   | 12                       | 14         | 100~300   |
| THS3-500Z  | 240*240*195    | 210*210                   | 14                       | 15         | 350~450   |
| THS3-1000Z | 290*290*195    | 260*260                   | 16                       | 30         | 700~1000  |
| THS3-1500Z | 330*330*195    | 300*300                   | 16                       | 45         | 1050~1500 |
| THS3-2000Z | 370*370*195    | 330*330                   | 18                       | 55         | 1400~2000 |
| THS3-2500Z | 370*370*195    | 340*340                   | 18                       | 80         | 1800~2500 |
| THS3-3000Z | 430*430*195    | 400*400                   | 18                       | 91         | 2100~3000 |
| THS3-4500Z | 488*488*195    | 458*458                   | 19                       | 135        | 3150~4500 |
| THS3-6000Z | 548*548*195    | 518*518                   | 19                       | 180        | 4200~6000 |