

# MICRO-POSITIONING ACTUATOR VMP 60 – SEIS

DATASHEET ISP 13A656FP10012 - A

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Positioner for positioning application in space environment, combines high axial and radial stiffness, lightness and thermo – mechanic stability.



#### 1 - Design

- The VMP 60-SEIS is driven by stepper motor. It provides an irreversible displacement through a high precision screw.
- The VMP 60-SEIS got an anti-rotation rod system, embedded to guidance, ensuring an easy application.
- Its embedded guidance provides a high radial stiffness and torsional.
- The VMP 60-SEIS is polarized under stress and enables operation under bidirectional load (on traction or on thrust) while keeping a stable positioning.
- The VMP 60- SEIS is characterized by a high thermo mechanic stability, despite its minimal weight.
- The positioner can operate in harsh environment: UVH, -80°C to + 60 °C
- Its high stiffness allows to support, without damage, vibration level during the launch.

### 2 - Applications

Positioning and accurate orientation on optical, sensors, samples

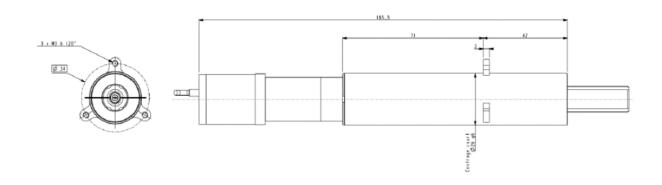
#### 3 - Options

Redundant winding, sensors FDC, linear rule......

#### 4 - Technical Specifications

CHARACTERISTIC	SPECIFICATIONS
Travel:	60 mm
Resolution on displacement :	50 nm / steps
Repeatability:	< 0,5µm RMS without calibration
Nominal axial Load :	50 N
Axial stiffness :	3000 N/mm
Radial stiffness :	<ul><li>1500 N/mm position 50% output</li><li>600 N/mm position 100% output</li></ul>
Travel limit :	Mechanical stop
Dimensions :	Ø26, length 185mm in input position
Qualifications level :	<ul> <li>Sinus: 0-21Hz: 11mm</li> <li>21-60Hz: 20g</li> <li>60-100Hz: 6g</li> <li>Aléatoire: 20Hz: 0.03 g²/Hz</li> <li>50Hz: 3g²/Hz</li> <li>70Hz: 3g²/Hz</li> <li>200Hz: 0.006g²/Hz</li> <li>2000: 0.006g²/Hz</li> <li>Starting at -80°C</li> <li>Operating at +60°C</li> <li>UHV operating, baking at 120°C</li> </ul>

## 5 - Dimensions (mm)



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