



# Micro-Force Electrical Actuator $\mu$ AME 17

ISP 11A601FPI001B  
ISP System® patented  
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- Millinewton resolution with high stability
- Very Small diameter allows proximity of multiple actuators
- Bidirectional force +/- 17 Newton
- Precision design for accurate nanometric deformations



Image is for illustrative purposes only

The  *$\mu$ AME series* is a product range based on a reliable patented technology providing nanometer resolution deformation.

These actuators were designed to address the new needs in high power active optics (e.g. Wavefront correction on High power lasers, KB mirror benders, among many others).

It can generate a stable and accurate driven force, and doesn't need a continuous power supply to maintain its force.

Their very small diameter permits to concentrate many actuators under a single substrate.

The floating head technology allows angular and radial misalignments without any parasitic friction.

The motor type and mechanical interfaces can be easily changed to fit customer's requirements.

## Technical specifications

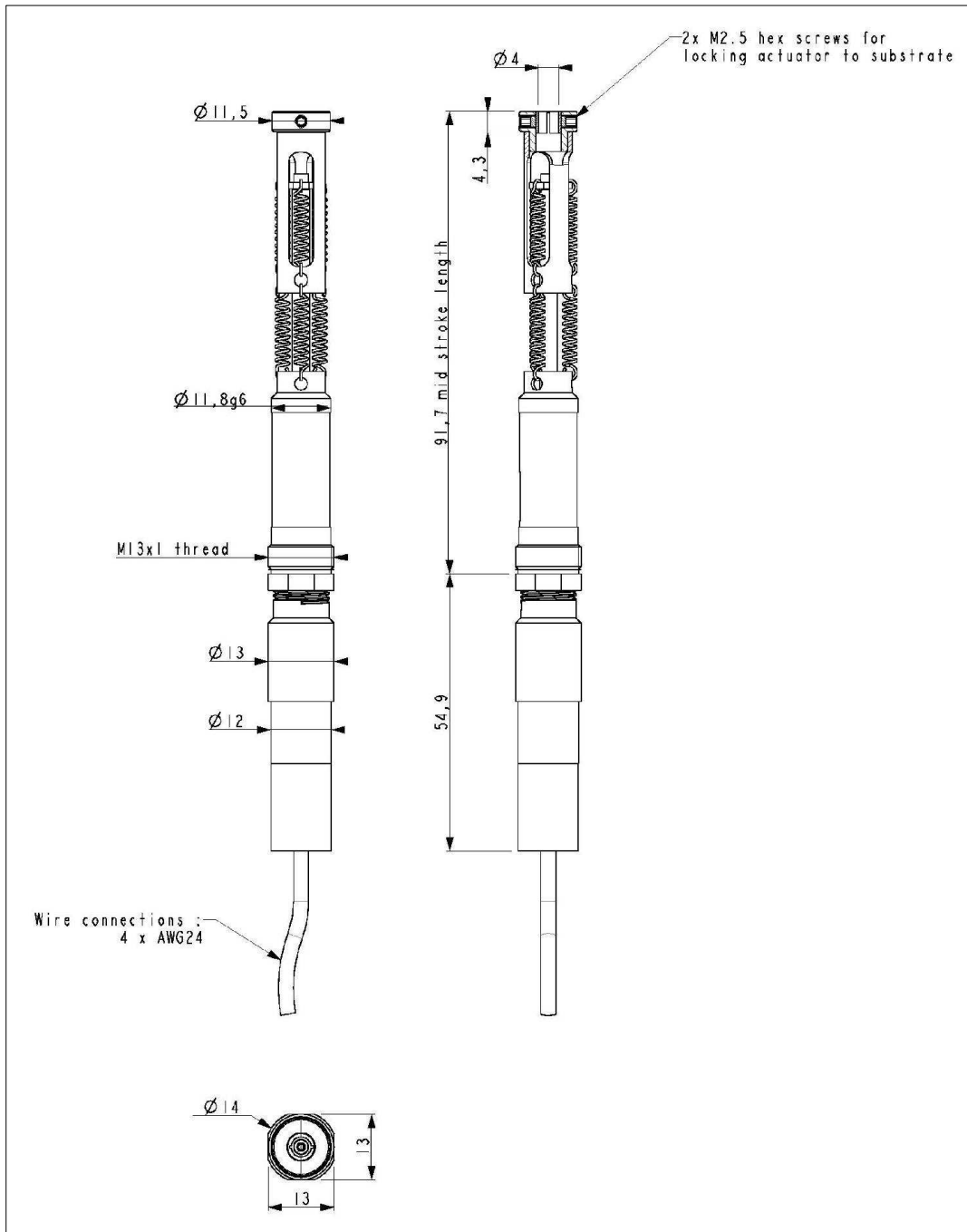
Motor	Hybrid Stepper, 0.3A
Pressure compliance	Atmospheric ( <b>ATM</b> ), Low Vacuum ( <b>LV</b> ), High Vacuum ( <b>HV</b> )
Sensor	Open loop
Force range	-17N to 17N
Resolution	2 mNm / full step
Maximum Speed	4 N/s
Unidirectional Repeatability	< 10 mN RMS
Open loop linearity	1%
Hysteresis	1%
Overall Diameter	14 mm
Controller	On request

Please notice that other specifications are available under request.



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## DIMENSIONS



Dimensions are in millimetres

Actuator delivered with wire connections

Nota: All the specifications and features of this datasheet are described as examples and can be modified if an update or specific features are needed