

A small, high-resolution actuator that can be operated remotely in the equipment of a high vacuum chamber .

- Two types of mounting shank diameters, a standard type of 9.5 mm diameter and a small type of 6 mm diameter, are available.
- A flat actuator tip type (VPDM-**ACT) and a spherical actuator tip type (VPDM-**ACTR) are available.



Guide

- ▶ The piezo drive controller (PDM-ID-02) is required to operate the motor. [▶ WEB Reference](#) Catalog Code W8022
- ▶ There is a lead wire coming out of the actuator, which can be connected to the terminal of the chamber or the lead wire can be pulled out.
The piezo drive actuator comes with a controller-specific connection cable (1m) to connect to this lead wire.



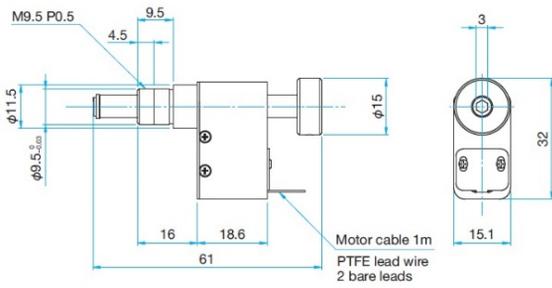
PDM-ID-02

Attention

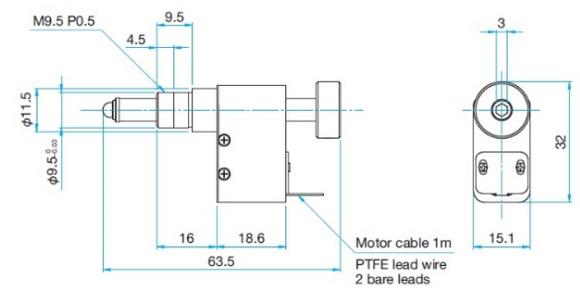
- ▶ This product is driven by inertia using piezoelectric elements, so there is no precision in positioning, etc. In addition, the speed and minimum travel may vary depending on individual differences and the direction of the actuator's feed.
- ▶ If you wish to combine with your own manual stage, please contact us for a separate consultation.
- ▶ If you purchase the stage and angled micrometer heads together, we assemble them and deliver to you. Please contact sales in advance.
Depending on the specifications of the combination, additional work or modifications may be required. Please contact our sales.

Specification				
Part Number	VPDM-13ACT	VPDM-13ACTR	VPDM-6.5ACT	VPDM-6.5ACTR
Tip Shape	Flat type	R type	Flat type	R type
Travel [mm]	>13 (Max. 18)	>13 (Max. 18)	>6.5 (Max. 13)	>6.5 (Max. 13)
Minimum travel [nm]	<20	<20	<30	<30
Thrust Force [N]	29.4	29.4	13	13
(MAX) Speed [mm/min]	1.5	1.5	1.5	1.5
Weight [kg]	0.05	0.05	0.02	0.02

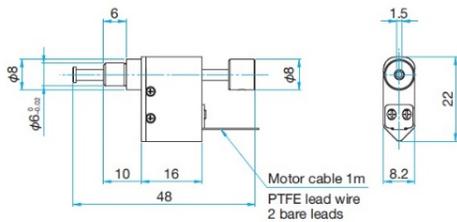
VPDM-13ACT



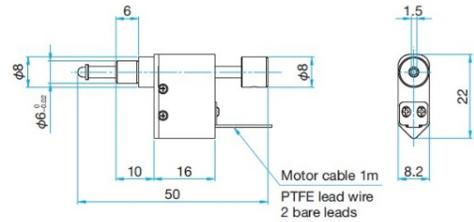
VPDM-13ACTR



VPDM-6.5ACT



VPDM-6.5ACTR



Outgassing Measurement Data

- Measurement result
- Outgassing

Part Number	Outgassing (after 1 hour) [Pa·m ³ /s/unit]
VPDM-6.5ACT	1.87×10^{-7}
VPDM-13ACT	1.12×10^{-7}

- System specifications

Vacuum pump
 Type : Turbo molecular vacuum pump
 Model : Turbo-V250
 Manufacturer : Agilent Inc (VARIAN)
 pumping speed : 250 l/s
 Mass spectrometer
 Type : Quadrupole Mass Spectrometer
 Model : QME200
 Mass number range : 1-100
 Manufacturer : PFEIFFER

- Ultimate vacuum

