

8341-V and 8341-UHV

Ultra-High Vacuum compatible Rotating Picomotor Actuators



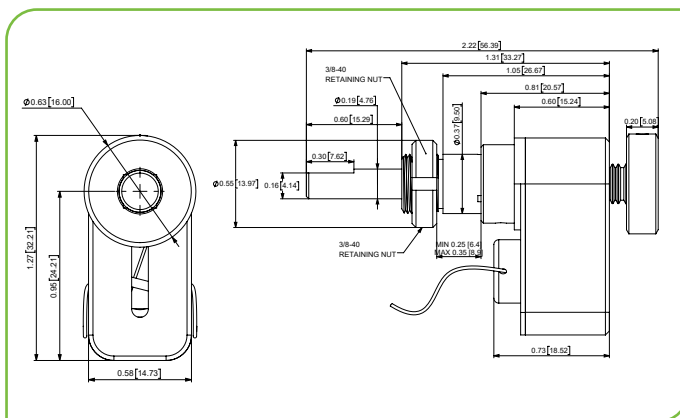
The 8341-V Vacuum and 8341-UHV Ultra-High Vacuum Rotating Picomotor Actuators are designed for applications that require rotation without translation. The 0.19 in. (4.76 mm) rotating shaft is ideal for rotating small optical components or mechanical devices from remote locations. The 0.37 in. (9.5 mm) diameter shank lets you mount the Model 8341-UHV just like our other actuators. A convenient flat on the end of the shaft allows solid coupling to external components.



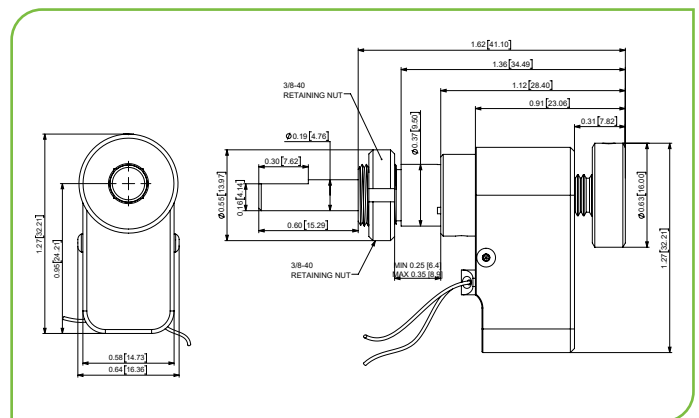
Product Features

- 10^{-6} or 10^{-9} hPa compatible
- 3 to 4 RPM rotation speed
- 360° travel range
- Convenient flat on the end of the rotating shaft

Dimensional Drawing



8341-V Vacuum



8341-UHV Ultra-High Vacuum

Specifications	8341-V	8341-UHV
Travel Range (deg)	360° continuous	
Angular Resolution	< 1mrad	
Max speed (RPM) @ 2kHz & no load	> 6	
Max axial holding force (N)	N/A	
Frequency (Hz)	2000	
Driver Torque (N.m)	> 0.025	
Wire Length (mm)	45	
Mounting	9.5 mm shank	
Rated Life (steps)	1.5 x 10 ⁸ or 15000 cycles	
Vacuum Compatibility** (hPa)	10 ⁻⁶	10 ⁻⁹
Vacuum Wire Material	Teflon	Teflon
Operating Temperature	+10 to +40	
Storage Conditions (° C)	-5 to 40°C, < 40% HR	
Connector type	Inside chamber: Flying leads Outside chamber: 2.1m RJ22 cable (supplied)	
Long term Operating Temperature(° C)	+10 to +40	
Storage Conditions (° C)	-5 to 40°C, < 40% HR	

* 10⁻⁶ for -V and 10⁻⁹ for -UHV versions

** Teflon for -V and -UHV, kapton for -KAP

Recommended Controllers/Drivers

Model	Description
8703	Picomotor Driver, Single-Axis, TTL /Analog
8712	Picomotor Driver, Single-Axis, PCB-Mountable
8742	Motion Controller, Picomotor, Open-Loop, 4 Channel
8742-4-KIT	Picomotor Controller Kit, Four-Axis
8742-8-KIT	Picomotor Controller Kit, Eight-Axis P
8742-12-KIT	Picomotor Controller Kit, Twelve-Axis

ORDERING Information

Model	Description
8341-V	Picomotor Actuator, 360° travel, rotating shaft, vacuum compatible, Teflon
8341-UHV	Picomotor Actuator, 360° travel, rotating shaft, ultra-high vacuum, Teflon