

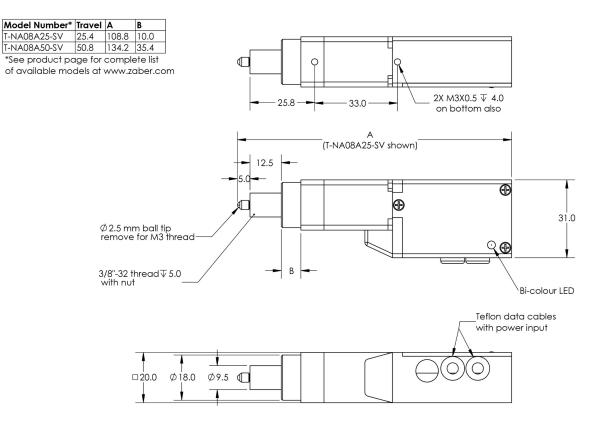


- Vacuum compatible to 10-6 Torr
- 25 and 50 mm travel
- Up to 8 mm/s speed and up to 46 N thrust
- Our most compact, precise and robust actuator
- Built-in controller; daisy chains with other T-series devices inside vacuum chamber
- Designed to replace standard micrometer heads on manual translation stages
- Hardened ball-tip (removable so you can use the built-in threaded tip or a flat tip)

Product Description

For more information about the basics of a vacuum system and considerations to keep in mind when gathering requirements for your application, read our technical article, "Motion Device Design Considerations for Vacuum Applications".

Dimension Drawings

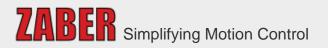


Product Specifications

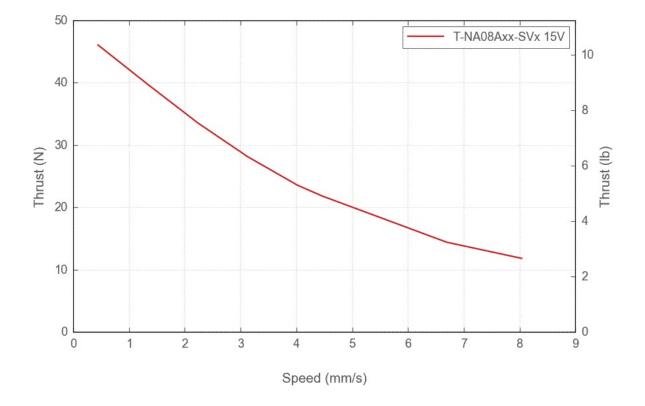
Specification	Value	Alternate Unit
Microstep Size (Default Resolution)	0.047625 μm	
Built-in Controller	Yes	
Travel Range	25.4 mm	1.000 "
Accuracy (unidirectional)	15 μm	0.000591 "
Repeatability	< 1 µm	< 0.000039 "
Backlash	$< 4 \ \mu m$	< 0.000157 "
Maximum Speed	8 mm/s	0.315 "/s
Minimum Speed	0.00022 mm/s	0.000009 "/s
Speed Resolution	0.00022 mm/s	0.000009 "/s
Encoder Type	None	
Peak Thrust	46 N	10.3 lb
Maximum Continuous Thrust	46 N	10.3 lb
Communication Interface	RS-232	
Communication Protocol	Zaber Binary	
Maximum Current Draw	350 mA	
Power Supply	12-16 VDC	
Power Plug	None, use T-DSUB9-P	
Motor Steps Per Rev	200	
Motor Type	Stepper (2 phase)	
Inductance	1.5 mH/phase	
Default Resolution	1/64 of a step	
Data Cable Connection	Teflon flying leads with Minidin 6 pin M/F	
Mechanical Drive System	Precision lead screw	
Limit or Home Sensing	Magnetic hall sensor	
Manual Control	No	
Axes of Motion	1	
LED Indicators	Yes, Bi-colour	
Mounting Interface	3/8-32 nut, 3/8" shank, or M3 screws	
Vacuum Compatible	High vacuum (10-6 Torr)	
Operating Temperature Range	0 to 50 °C	
RoHS Compliant	Yes	
CE Compliant	Yes	



Specification	Value	Alternate Unit
Weight	0.13 kg	0.287 lb



Specification Charts



Thrust Speed Performance

