

## VL-CT35 Series Specifications

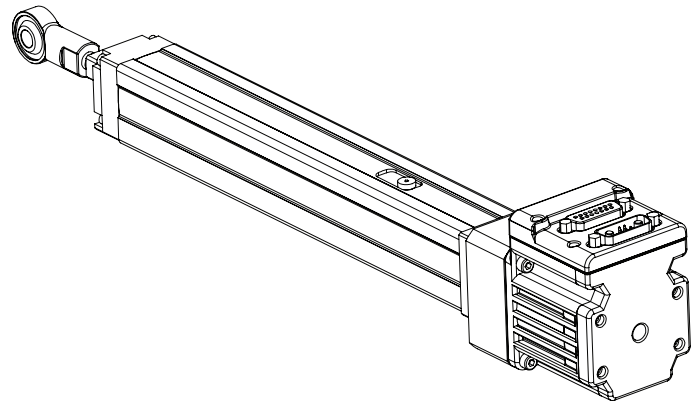
Parameter	Value	Units
<b>Configuration &amp; Physical Parameters</b>		
Motor	23 frame D-series SmartMotors ONLY	-
Coupling	Beam	-
Displacement/rev	6,12	mm/rev
Position Sensors	consult factory	-
Stroke Lengths	50, 100 and 150	mm
Overall Length	Stroke + 244.9 + motor	mm
Overtravel	None	mm
Unit Mass	$1.1667 + 0.003 \times (\text{stroke, mm}) + (\text{motor mass, kg})$	kg
<b>Performance</b>		
Unidirectional Repeatability	20	μm
Bidirectional Repeatability	40	μm
Linear Accuracy	0.21/300	mm/mm
Max Velocity	470 – 1000 (stroke dependent)	mm/s
Max Acceleration	0.3	G
Payload Mass	5.6	kg
Rated Velocity	400	mm/s
Lifetime*	15000	hr
<b>Load Rating, Dynamic</b>		
Using SM23165DT motor	Direct Drive	2:1 pulley**
Displacement/rev	6	12
Max Continuous Thrust	461	231
Max Peak Thrust	745	372

\*Based on operating at an average speed of the rated velocity at the given payload. The Lifetime will be significantly reduced operating above the rated velocity and/or given payload.

\*\*Please see page 155 for pulley offset CAD drawings.

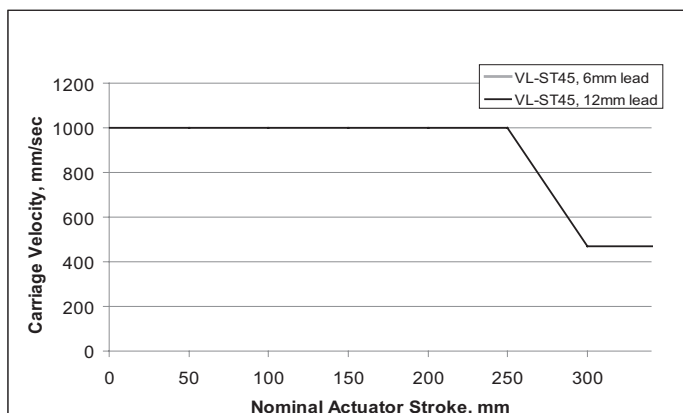


VL-CT35 series

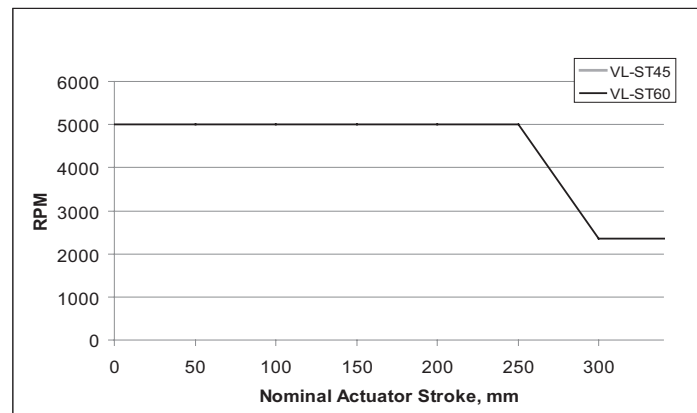


### WARNING: Do not exceed these limits

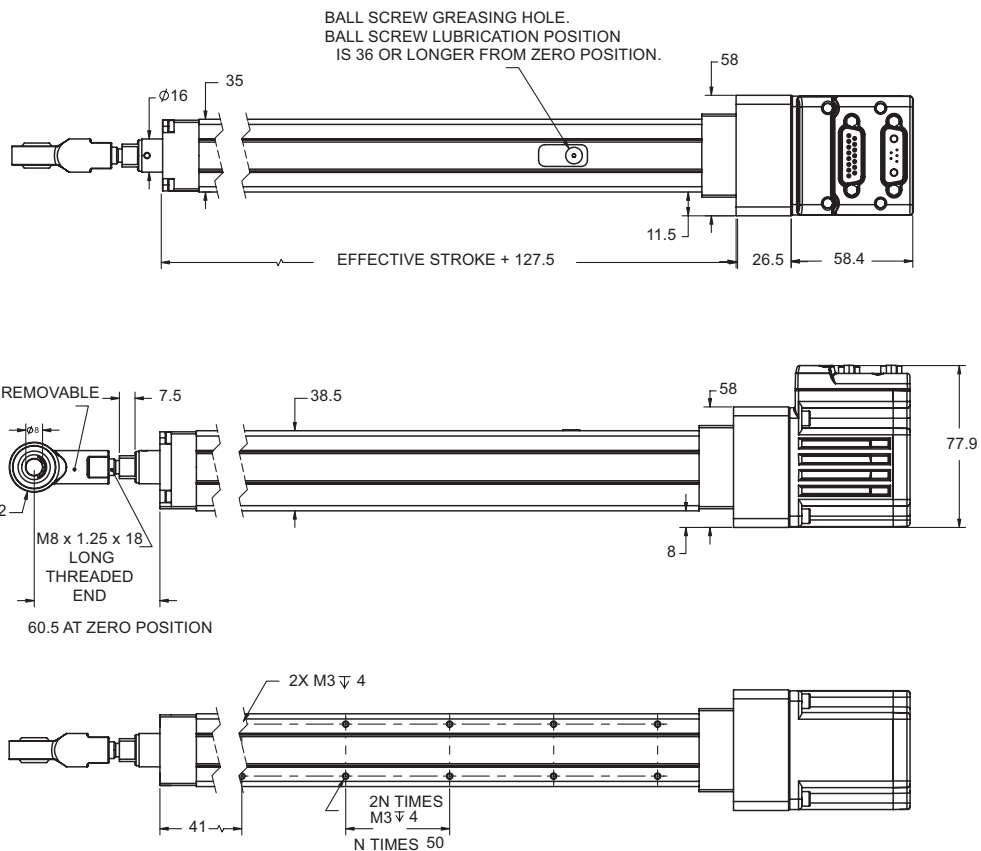
#### VL-CT series - Maximum Permissible Carriage Velocity



#### VL-CT series - Maximum Permissible Screw Speed



**WARNING: Exceeding thrust, speed, or moment loading specifications could result in immediate damage to the actuators. Doing so will void the warranty.**



Dimensions in millimeters

**NOTE:** For part numbers please refer to our website at [www.animatics.com](http://www.animatics.com)

For Thrust Curve performance data, see pages 158–173.