

VECTAC VT™

Versatile Thrust Ball Screw Linear Actuators



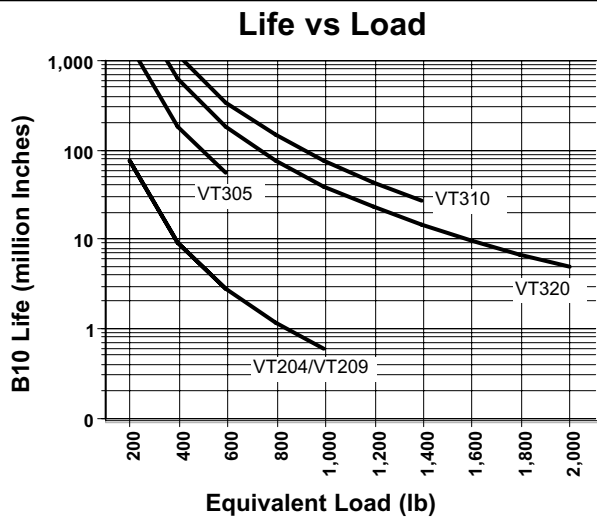
- Force from 400 to 2,000 LBf
- Velocity to 40 in/sec
- Sealed from Contamination
- Adjustable Limit Switch Positions
- Accepts Any Motor
- Piston with Rugged Anti-Rotation

VECTAC VT™ Linear Actuator Capabilities:

Model Number	Thrust Load Rated (lb _f)	Linear Velocity Max. (in/sec)	Travel Length ⁽¹⁾ Max. (in)	Frame Size (in)	Lead ⁽²⁾ (in)	Ball Screw Diameter (in)	Ball Screw Max. (RPM)	Torque @ Ball Screw Max. (in-lb)	Dynamic Capacity per million revs (lb _f)	Dynamic Capacity per million inches (lb _f)	Motor Gearhead Frame Supported Max. (in)	Unit Weight "U" Motor Mount (lb)	Unit Weight "L" Motor Mount (lb)
VT204-06	400	16	6	2.25	0.50	0.50	1,920	35	1,070	850	3.5	9.0	7.0
VT204-12	400	16	12	2.25	0.50	0.50	1,920	35	1,070	850	3.5	12.0	10.0
VT204-18	400	16	18	2.25	0.50	0.50	1,920	35	1,070	850	3.5	15.0	13.0
VT204-24	400	16	24	2.25	0.50	0.50	1,920	35	1,070	850	3.5	18.0	16.0
VT209-06	900	9	6	2.25	0.20	0.63	2,700	32	1,070	850	3.5	9.0	7.0
VT209-12	900	9	12	2.25	0.20	0.63	2,700	32	1,070	850	3.5	12.0	10.0
VT209-18	900	9	18	2.25	0.20	0.63	2,700	32	1,070	850	3.5	15.0	13.0
VT209-24	900	9	24	2.25	0.20	0.63	2,700	32	1,070	850	3.5	18.0	16.0
VT305-06	500	40	6	3.25	1.00	1.00	2,400	88	2,300	2,300	4.5	24.0	19.8
VT305-12	500	40	12	3.25	1.00	1.00	2,400	88	2,300	2,300	4.5	28.4	24.2
VT305-18	500	40	18	3.25	1.00	1.00	2,400	88	2,300	2,300	4.5	32.8	28.6
VT305-24	500	40	24	3.25	1.00	1.00	2,400	88	2,300	2,300	4.5	37.2	33.0
VT305-30	500	40	30	3.25	1.00	1.00	2,400	88	2,300	2,300	4.5	41.6	37.4
VT310-06	1,000	20	6	3.25	0.50	1.00	2,400	88	5,350	4,250	4.5	24.0	19.8
VT310-12	1,000	20	12	3.25	0.50	1.00	2,400	88	5,350	4,250	4.5	28.4	24.2
VT310-18	1,000	20	18	3.25	0.50	1.00	2,400	88	5,350	4,250	4.5	32.8	28.6
VT310-24	1,000	20	24	3.25	0.50	1.00	2,400	88	5,350	4,250	4.5	37.2	33.0
VT310-30	1,000	20	30	3.25	0.50	1.00	2,400	88	5,350	4,250	4.5	41.6	37.4
VT320-06	2,000	10	6	3.25	0.25	1.00	2,400	88	5,475	3,450	4.5	24.0	19.8
VT320-12	2,000	10	12	3.25	0.25	1.00	2,400	88	5,475	3,450	4.5	28.4	24.2
VT320-18	2,000	10	18	3.25	0.25	1.00	2,400	88	5,475	3,450	4.5	32.8	28.6
VT320-24	2,000	10	24	3.25	0.25	1.00	2,400	88	5,475	3,450	4.5	37.2	33.0
VT320-30	2,000	10	30	3.25	0.25	1.00	2,400	88	5,475	3,450	4.5	41.6	37.4

(1) Intermediate lengths are available. (2) Lead accuracy is 0.003 in/ft; Backlash is 0.004 in max.

Graph: Life Vs. Load



EQUIVALENT LOAD is the average force over the working stroke, weighted proportionately to the distance traveled. For constant force loads, the equivalent load is the same as the typical or average load. Where forces vary due to gravity, angle of actuator, acceleration and deceleration, friction, and changing dynamic loads at different positions, it is best to determine the equivalent load in order to most accurately predict the B10 life of the actuator.

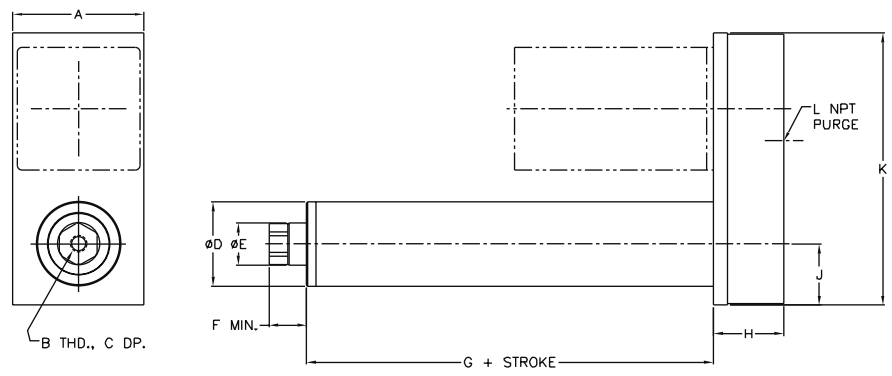
$$F = \sqrt[3]{\frac{L_1(F_1)^3 + L_2(F_2)^3 + L_3(F_3)^3 + L_4(F_4)^3 + \dots + L_n(F_n)^3}{L}}$$

Where: F_n is the calculated force for segment "n" with travel length of L_n and total travel L .
 Find the intersection of this value and the appropriate curve. The value on the scale to the left reflects the B10 life of the actuator.

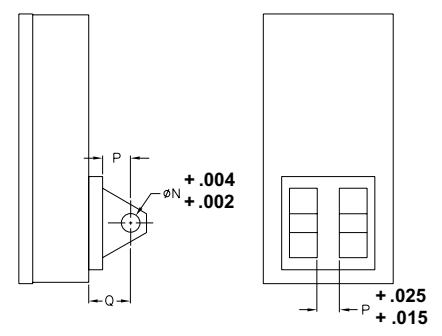
VECTAC VT™ General Dimensions

U-Parallel Offset Motor Configuration

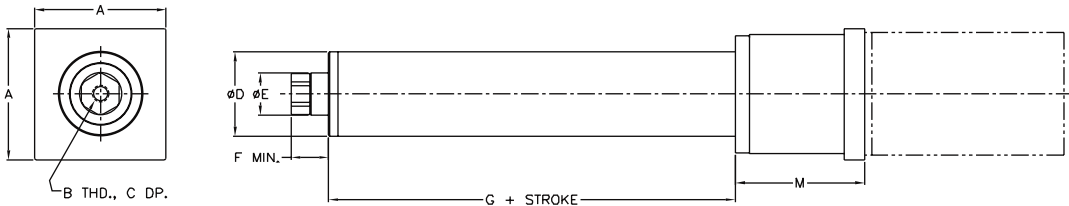
Rear Clevis Dimensions



Note: DXF or DWG files are available at www.edriveactuators.com



L-Inline Motor Configuration

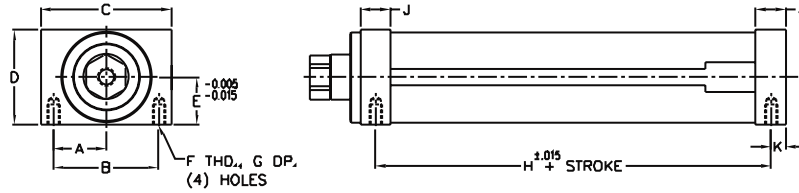


Note: DXF or DWG files are available at www.edriveactuators.com

VecTac VT U-Parallel Offset, L-Inline and Rear Clevis Dimensions

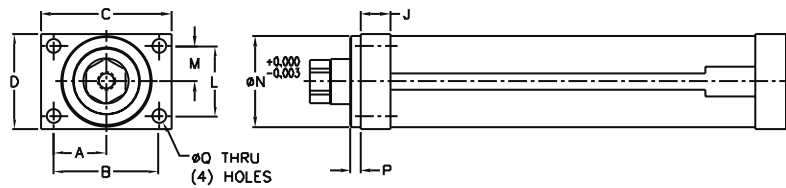
Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
VT204	3.50	1/2-20	0.63	2.25	1.13	1.25	4.84	1.88	1.63	7.25	1/8	3.44	0.50	0.75	1.13
VT209	3.50	1/2-20	0.63	2.25	1.13	1.25	4.84	1.88	1.63	7.25	1/8	3.44	0.50	0.75	1.13
VT305	4.50	3/4-16	0.88	3.25	1.75	1.40	7.03	2.47	2.38	9.63	1/8	3.97	0.75	1.25	1.88
VT310	4.50	3/4-16	0.88	3.25	1.75	1.50	7.03	2.47	2.38	9.63	1/8	3.97	0.75	1.25	1.88
VT320	4.50	3/4-16	0.88	3.25	1.75	1.50	7.03	2.47	2.38	9.63	1/8	3.97	0.75	1.25	1.88

Bottom Mount Dimensions



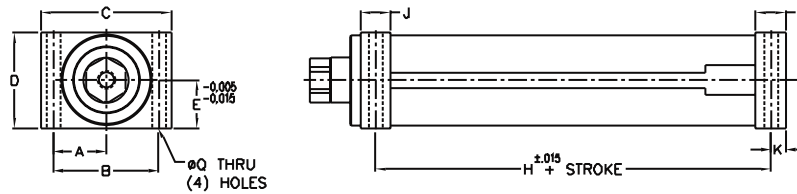
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Front Flange Dimensions



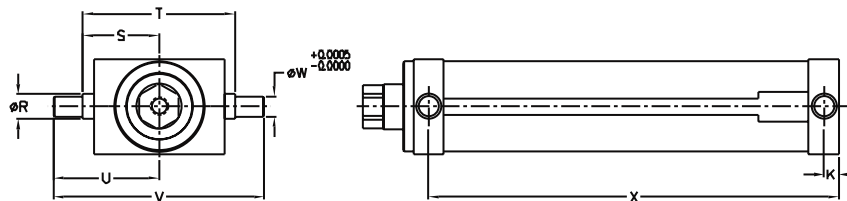
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Foot Mount Dimensions



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Trunnion Mount Dimensions

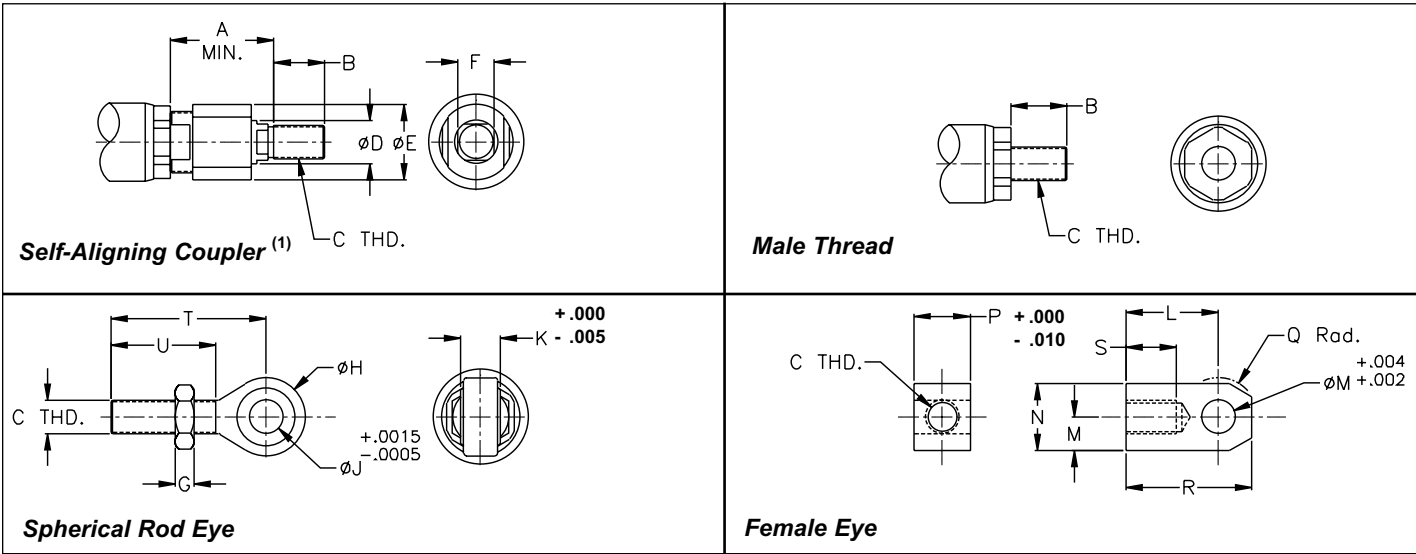


Note: DXF or DWG files are available at www.edriveactuators.com

Unit Mounting Dimensions

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X
VT2	1.31	2.63	3.25	2.38	1.19	5/16-18	0.63	3.84	0.75	0.38	1.75	0.88	2.25	0.25	0.34	0.69	1.89	3.78	2.63	5.25	0.50	4.22
VT3	1.88	3.75	4.50	3.38	1.69	3/8-16	0.75	5.78	1.00	0.50	2.63	1.31	3.25	0.25	0.41	0.94	2.52	5.03	3.50	7.00	0.75	6.28

Rod End Options



Rod End Options

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U
VT2	2.00	0.75	1/2-20	0.63	1.25	0.56	0.31	1.31	0.50	0.63	1.50	0.50	1.00	0.75	0.63	2.00	0.75	2.44	1.50
VT3	2.31	1.13	3/4-16	0.97	1.75	0.88	0.42	1.75	0.75	0.88	2.06	0.75	1.50	1.25	0.88	2.81	1.13	2.88	1.75

(1) Zero backlash version also available

How To Order:

Base Number	Options	Special
<div style="display: flex; justify-content: space-between;"> V T </div>	<div style="display: flex; justify-content: space-between;"> </div>	<div style="display: flex; justify-content: space-between;"> </div>
<p>Frame Size (in): 2,3</p> <p>Capacity (lb): x100</p> <p>Unit Mounting Option: MB Bottom Mount FF Front Flange MF Foot Mount TF Front Trunnion TR Rear Trunnion CR Rear Clevis</p> <p>End Effector/Rod End: E Female Eye F Female Thread A Self-Aligning Coupler M Male Thread S Spherical Rod Eye</p>	<p>Standard Stroke Length (in):</p> <p>Gearbelt Reduction: 00- Direct Coupled 10- 1:1 20- 2:1</p> <p>Motor Position 1, 2, 3, 4 0 = Inline (refer to figure)</p> <div style="text-align: center;"> </div> <p>Configuration: L- In-Line U- Parallel Offset</p>	<p>Custom Length (in): 00.00</p> <p>N.C. Switch Qty: 0, 1, 2, 3, etc.</p> <p>N.O. Switch Qty: 0, 1, 2, 3, etc.</p> <p>Switch Type: A - Hall Sourcing PNP B - Hall Sinking NPN C - Reed</p>