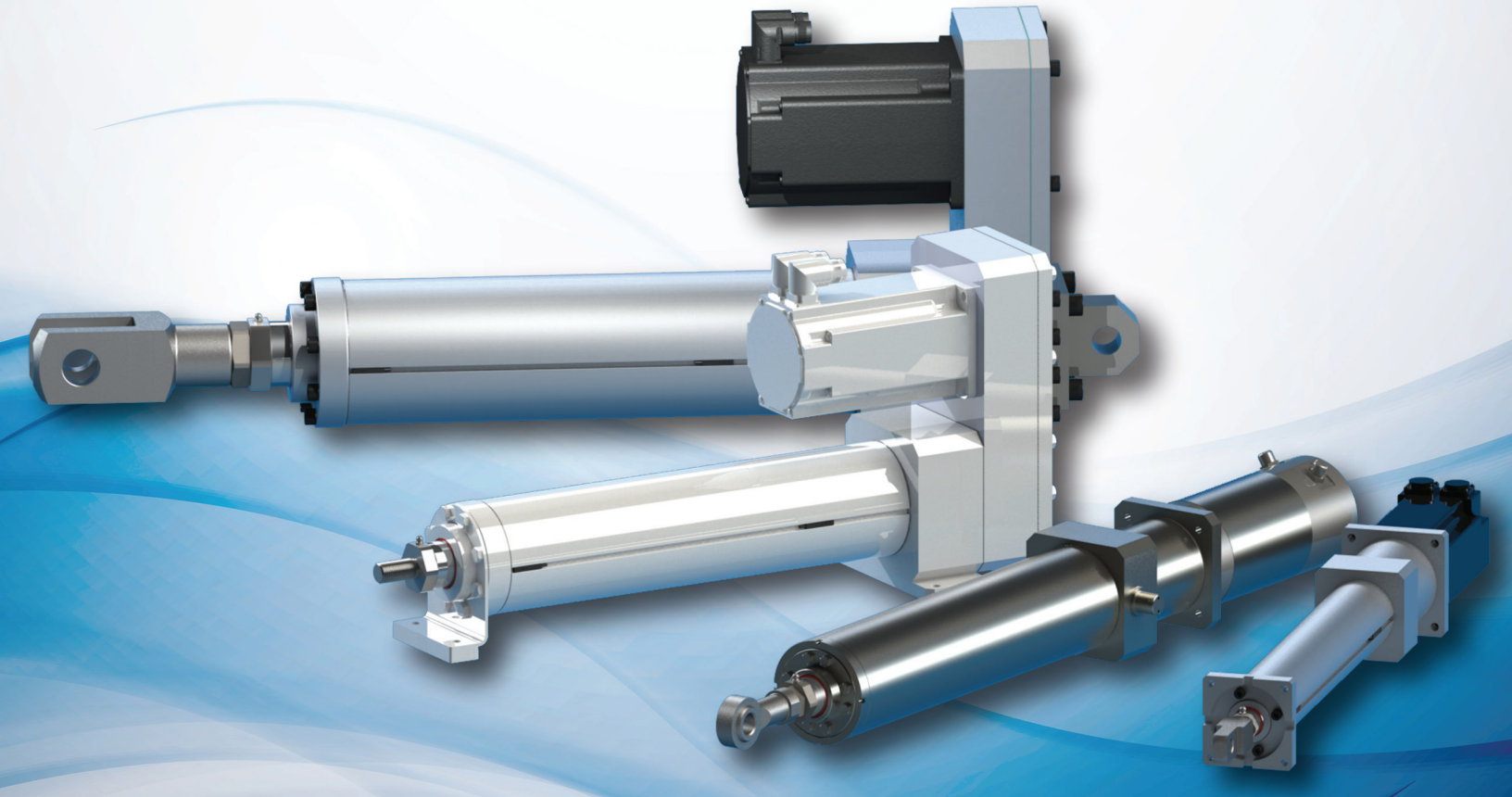
Precision Technology
USA
ENGINEERED ACTUATORS

VICTORY A-SERIES ACTUATORS

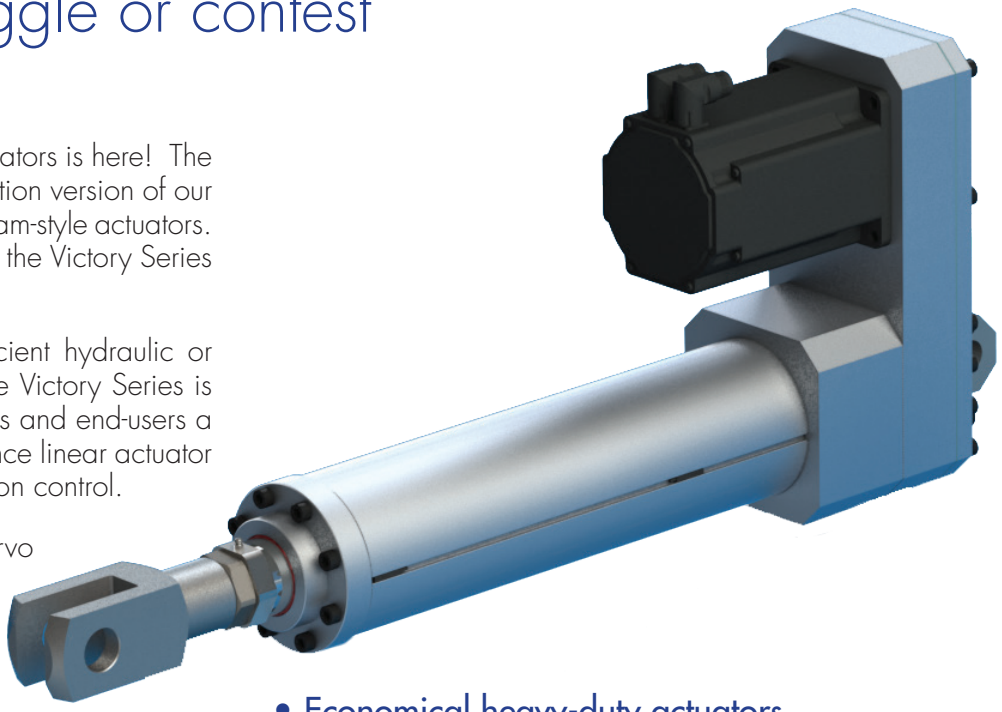


PERFORMANCE AND VERSATILITY FOR PRECISE, POWERFUL AND CLEAN LINEAR MOTION

www.pt-usa.net

PT GROUP
THE POWER BEHIND PERFORMANCE

vic•to•ry / 'vik-t(ə-)rē / *noun:* a successful ending of a struggle or contest



The next wave of Victory Series actuators is here! The Victory "A" Series is the next generation version of our widely applied electro-mechanical ram-style actuators. As the definition of its name implies, the Victory Series is a problem solver.

Ideally suited as a clean and efficient hydraulic or pneumatic cylinder replacement, the Victory Series is designed to offer equipment builders and end-users a rugged, flexible, and low-maintenance linear actuator platform for thrust, speed and position control.

When combined with modern servo motors and controls, electro-mechanical actuation provides nearly infinite programmability, reduced set-up times, and improved control of speed, acceleration, deceleration, force and position.

Whether as a fluid power retrofit, or in a new mechanical system, ram-style actuators, sometimes also known as electric cylinders, excel when there is a high concentration of airborne contaminants, when moving a load that pivots, or when applying force to an already externally supported load.

The Victory Series benefits from our company's extensive experience in providing actuation solutions for a wide variety of industrial, commercial, and defense applications. Our focus and passion is electro-mechanical linear actuation. The resulting Victory A Series is the most flexible and durable ram-style actuator in our standard product portfolio; From standard food grade versions, to drive screw options, to mounting features and accessories.

Precision rolled ballscrew assemblies are incorporated into the baseline Victory Series for efficiency, smoothness, accuracy, and to support high-duty cycle requirements. ACME/Trapezoidal lead screw options are also available for their self-locking capability and value, when the duty cycle requirements are less. Planetary rollerscrew versions are available for extended performance life requirements in equivalent package sizes.

- Economical heavy-duty actuators
- Clean, efficient and energy saving alternative to fluid power cylinders
- Infinite stroke lengths to 60 inches [1524mm]
- Flexible selection of screw types and leads; Ballscrew, Leadscrew and Rollerscrew options all in one product line
- Modular mounting and rod end designs
- Internal anti-rotation of the thrust rod
- Internal end-of-stroke bumpers
- IP67 standard ingress protection
- Constructed of corrosion-resistant materials
- Environmentally enhanced versions available for harsh environments
- Adjustable limit and position sensors
- Flexible adaptation for most motor selections

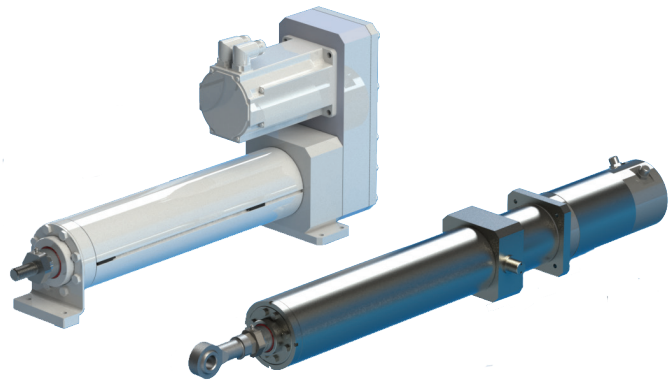
Victory A Series Features	Benefit
Four (4) frame sizes, and stroke lengths to 1524mm [60 inches]	Modular, scalable design with forces up to 52.7kN [11865 lb-f] and speeds to 2.0 meters/sec [79 in/sec, 6.5 ft/sec]
Flexible selection of screw types and leads	Offers balance of efficiency, load-holding and value
Modular mounting and rod end options	Affordable configuration options, and improved time to market or production
Efficient and clean alternative to fluid power cylinders	Reduces operating costs, and overall system size and weight; No contamination by hydraulic leaks, reduced maintenance
Internal anti-rotation of thrust rod	Greater application flexibility without need to constrain the thrust rod to the load
Flexible adaptation for most motors	Allows customer to select the right motor for performance and cost
Robust design	Reliable, low-maintenance operation in various environments
IP67 ingress protection	Use with confidence in washdown environment
Corrosion resistant materials	Suitable for a variety of harsh operation zones
Full line is available in the food grade options	No performance compromise when selecting the food duty options

What's new in the Victory A Series

- More compact design without compromise to the performance.
- Reduced system weight.
- Metric mountings and interfaces.
- Enhancement of mounting features. Bottom mount (BM) option now includes a front support as standard. Addition of bottom plate (BP) option.
- Spherical joint, female clevis and male clevis option now use ISO standard rod end solutions.
- Improved thrust bearing design.
- Unification of FG2 (stainless steel food grade) version dimensions to standard and FG1 (epoxy painted food grade) versions.

With the Victory Series... food grade means heavy duty!

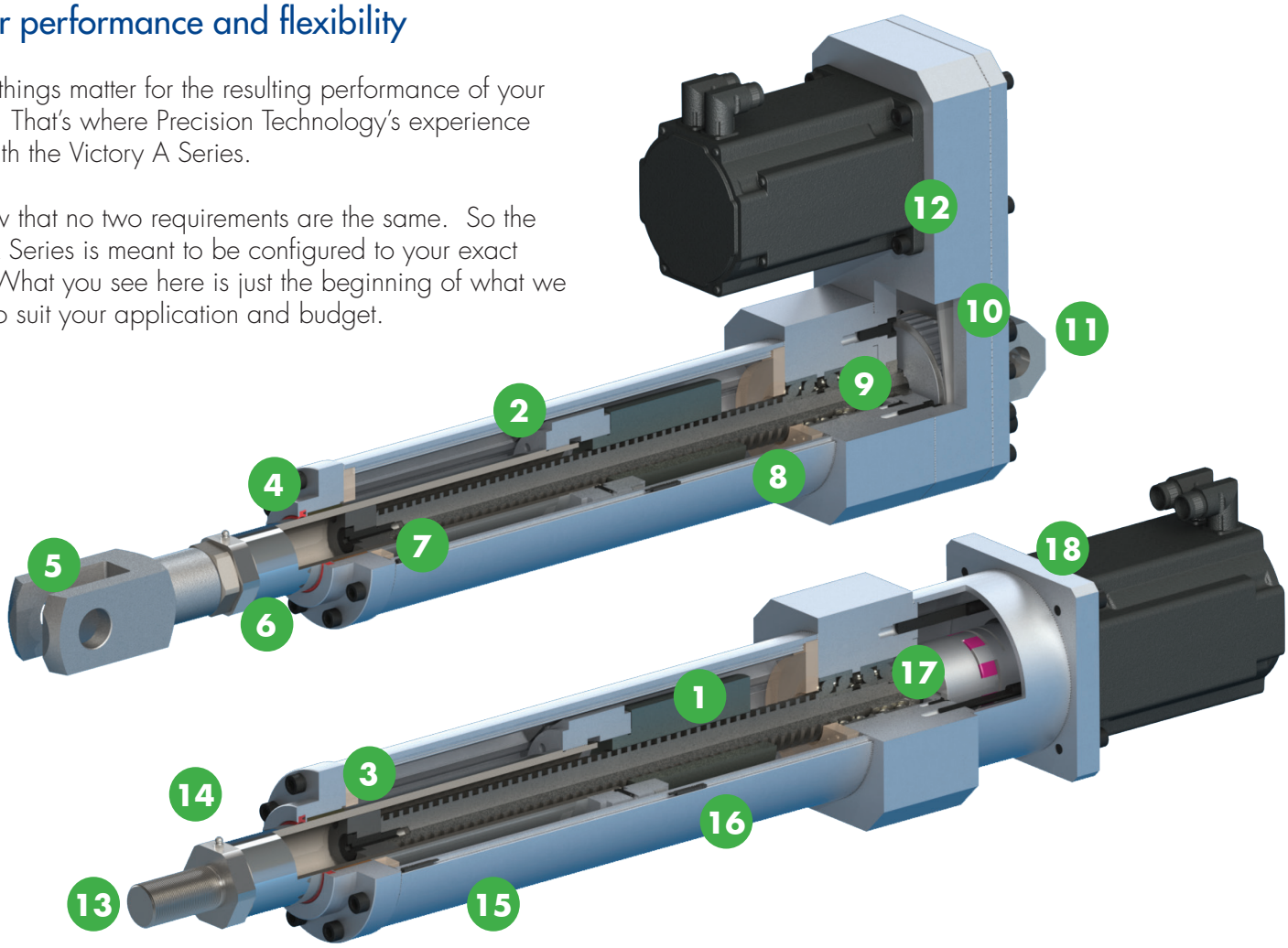
There's a common notion that "food duty" is something less than robust. That is not the case with the Victory Series. Our "FG" food grade options hold the same performance specifications as our standard industrial version. The finishes change, but there is no compromise in the toughness.



Built for performance and flexibility

The little things matter for the resulting performance of your actuator. That's where Precision Technology's experience shines with the Victory A Series.

We know that no two requirements are the same. So the Victory A Series is meant to be configured to your exact needs. What you see here is just the beginning of what we can do to suit your application and budget.



#	Feature	How this benefits the user
1	Multiple screw options	Ballscrew, rollerscrew or acme screws options to suit load, speed and duty cycle requirements
2	Internal anti-rotation feature	Prevents rod from rotating as it translates, and provides lateral support of the rod
3	Long guide bearing	Provides smooth extension and retraction of the rod, and long-life performance
4	Wiper / seal	Protects against the ingress of liquids and particles
5	Multiple rod end attachments	Standard ISO rod end attachments are available for affordable connection to the load
6	Corrosion resistant inner ram	Chrome plated rod for standard units, stainless steel rod for food grade units
7	Screw support bushing	Eliminates whipping and vibration of the screw, increasing dynamic performance and reducing noise
8	Over-travel protection bumpers	Protects the internal components from over-travel mishaps
9	Angular contact bearings	High capacity bearing arrangement ensures long life and thrust capacity
10	High strength timing belt	Provides long life backlash free transmission on parallel motor mount options
11	Multiple mounting options	For both pivoting and rigidly mounted applications (rear clevis shown)
12	Parallel motor mounting	Reduces overall length; Allows for rear clevis mounting; Three standard timing belt ratios available
13	Stainless steel primary rod ends	Male thread and female thread rod ends are stainless steel on all Victory A Series models and versions
14	Rod end mounted lube port	Simplifies maintenance by allowing the installed unit to be re-lubricated at any stroke position
15	Extruded aluminum cylinder body	Provides for many product features while helping to reduce system weight
16	Adjustable position sensors	For over-travel protection and position; Dual T-slots allow for positioning along entire stroke of the unit
17	Inline motor mounting	Provides for direct drive through the provided coupling
18	Motor adaption flexibility	Allows the use of any reasonably sized motor

Victory A Series Specifications

Model	Screw Lead mm [inch]	Efficiency	Max Force[1] kN [lb-f]	Max Speed[1] m/s [in/sec]	Max Stroke mm [inch]	Rated Load, L_{10}=10M inches [2,3] kN [lb-f]	Rated Load, L_{10}=2500km [2,3] kN [lb-f]
Ballscrew Models							
V26A-B020E	5.08 [0.20]	90%	6.2 [1400]	0.40 [15.8]	610 [24.0]	3.4 [766]	1.6 [357]
V26A-B050E	12.7 [0.50]	90%	4.2 [960]	1.00 [39.6]	610 [24.0]	2.0 [446]	0.9 [208]
V26A-B100E	25.4 [1.00]	90%	2.7 [620]	2.01 [79.2]	610 [24.0]	1.3 [288]	0.6 [134]
V32A-B020E	5.08 [0.20]	90%	8.4 [1900]	0.33 [13.3]	762 [30.0]	3.9 [882]	1.8 [411]
V32A-B050E	12.7 [0.50]	90%	12.8 [2890]	0.84 [33.3]	762 [30.0]	7.0 [1578]	3.3 [736]
V43A-B025E	6.35 [0.25]	90%	17.3 [3890]	0.31 [12.5]	1524 [60.0]	9.0 [2030]	4.2 [947]
V43A-B050E	12.7 [0.50]	90%	17.3 [3890]	0.63 [25.0]	1524 [60.0]	8.8 [1973]	4.1 [920]
V43A-B100E	25.4 [1.00]	90%	10.2 [2300]	1.27 [50.0]	1524 [60.0]	4.7 [1068]	2.2 [498]
V55A-B025E	6.35 [0.25]	90%	28.4 [6400]	0.21 [8.3]	1524 [60.0]	13.2 [2971]	6.2 [1386]
V55A-B050E	12.7 [0.50]	90%	52.7 [11865]	0.42 [16.7]	1524 [60.0]	26.6 [5988]	12.4 [2794]
V55A-B100E	25.4 [1.00]	90%	35.5 [8000]	0.84 [33.3]	1524 [60.0]	16.5 [3713]	7.7 [1733]
V55A-B188E	47.62 [1.875]	90%	23.2 [5215]	1.58 [62.5]	1524 [60.0]	15.2 [3412]	7.1 [1592]
Rollerscrew Models							
V26A-R05M	5.0 [0.197]	89%	4.3 [958]	0.45 [18.0]	610 [24.0]	7.0 [1576][4]	3.3 [735]
V26A-R10M	10.0 [0.394]	90%	3.8 [863]	0.91 [36.1]	610 [24.0]	8.8 [1986][4]	4.1 [927]
V32A-R05M	5.0 [0.197]	88%	9.2 [2086]	0.43 [17.1]	762 [30.0]	13.5 [3005][4]	6.2 [1402]
V32A-R10M	10.0 [0.394]	90%	8.8 [1968]	0.86 [34.1]	762 [30.0]	17.0 [3811][4]	7.9 [1778]
V43A-R05M	5.0 [0.197]	87%	16.5 [3698]	0.41 [16.1]	1524 [60.0]	16.5 [3703][4]	7.7 [1728]
V43A-R10M	10.0 [0.394]	89%	16.2 [3651]	0.81 [32.2]	1524 [60.0]	21.0 [4723][4]	9.8 [2203]
V55A-R05M	5.0 [0.197]	85%	43.0 [9672]	0.35 [13.8]	1524 [60.0]	26.2 [5888]	12.2 [2747]
V55A-R10M	10.0 [0.394]	88%	44.9 [10099]	0.70 [27.6]	1524 [60.0]	33.4 [7514]	15.6 [3506]
ACME Screw Models							
V26A-A020E	5.08 [0.20]	46%	6.2 [1400]	0.15 [6.1]	610 [24.0]	n/a	n/a
V32A-A020E	5.08 [0.20]	40%	12.4 [2800]	0.13 [5.1]	762 [30.0]	n/a	n/a
V43A-A025E	6.35 [0.25]	38%	16.9 [3800]	0.12 [4.8]	1524 [60.0]	n/a	n/a
V55A-A025E	6.35 [0.25]	30%	41.7 [9375]	0.08 [3.2]	1524 [60.0]	n/a	n/a

[1] Max forces and speeds may be limited by the stroke of the actuator; Check the application details against the Column Loading and Critical Speed graphs on page 6.
[2] L_{10} calculations are a statistical estimation of performance life at a given average dynamic load. Be sure to consider acceleration forces as well as basic thrust requirements in the determination of average dynamic load.
[3] The statistical wear life of lead (acme) screws are difficult to predict due to surface finishes, lubrication, operating temperature, and environmental consideration.
[4] It is not recommended that the Max Force rating be exceeded.

Key General Attributes

Acceleration:	to 9.8 m/s^2 [1G]
Oper. Temperature:	-30°C to 70°C [-22°F to 158°F]
Ingress Protection:	IP67
Thrust Bearings:	Angular Contact Bearings
Coupling Type:	Elastomer Jaw Type
Timing Belts/Pulleys:	AT-Style, Reinforced Polyurethane

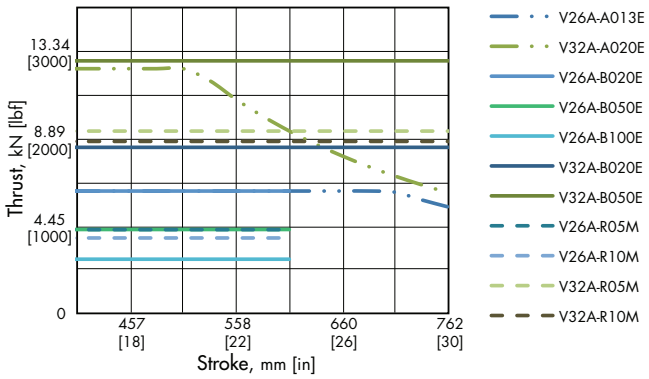
Key Materials and Finishes

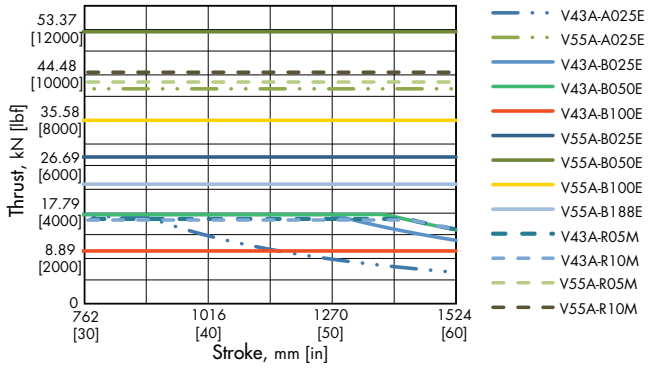
	Standard	FG1	FG2
Body Materials	6063-T6, 6061-T6 Aluminum		300 Series Stainless
Body Finish	Anodize	Food Grade Epoxy Paint	-
Inner Ram (Thrust Rod)	Plated Steel	300 Series Stainless	
Wiper/Seal	Urethane	Food Grade Urethane	

Actuator performance limits are dependent on product options, configurations, stroke length, etc., therefore may be less than the maximum values shown above. Please consult Precision Technology with your application details. We are pleased to assist with proper sizing and selection.

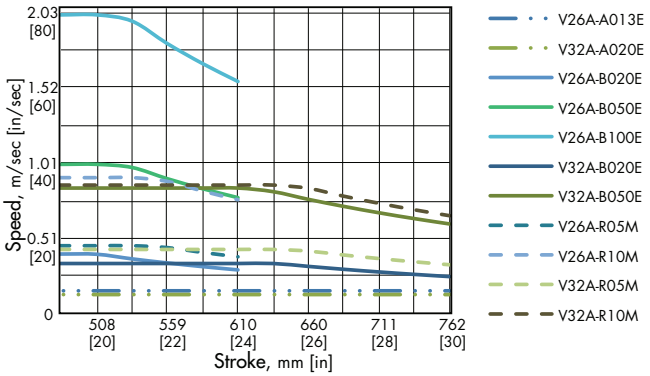
Engineering Data For Sizing

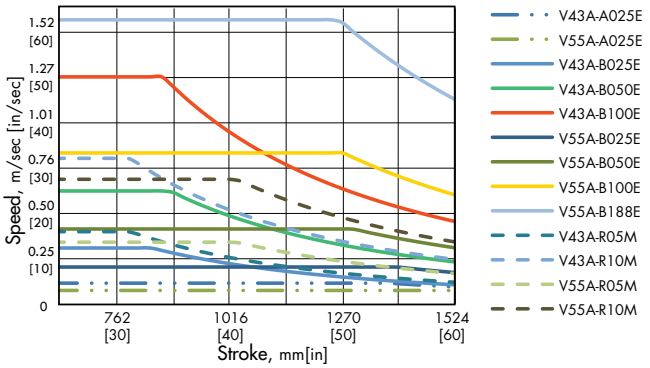
Column Loading Graphs





Critical Speed Graphs

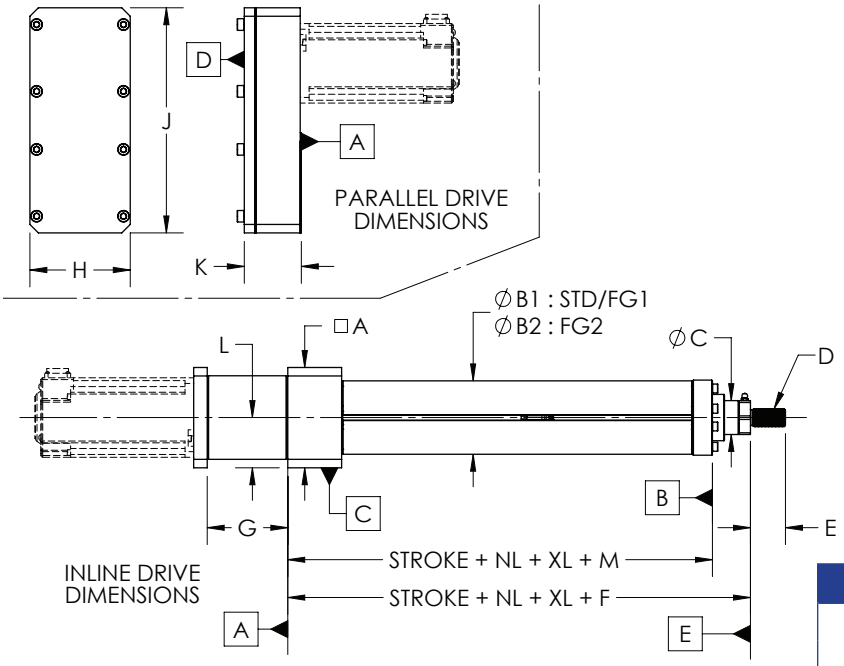




Rotary Inertia Reflected To The Motor

Model	Base, ballscrew & ACME units kg-cm-s^2 [lb-in-s^2]	Base, rollerscrew units kg-cm-s^2 [lb-in-s^2]	Per inch [25.4mm] of stroke kg-cm-s^2/25.4mm [lb-in-s^2/in]
V26A...DD	8.106 x 10^{-4} [7.04 x 10^{-4}]	8.148 x 10^{-4} [7.07 x 10^{-4}]	1.278 x 10^{-5} [1.11 x 10^{-5}]
V26A...P1	1.473 x 10^{-3} [1.28 x 10^{-3}]	1.634 x 10^{-3} [1.42 x 10^{-3}]	1.278 x 10^{-5} [1.11 x 10^{-5}]
V26A...P1.5	7.03 x 10^{-4} [6.10 x 10^{-4}]	8.100 x 10^{-4} [7.03 x 10^{-4}]	8.519 x 10^{-6} [7.39 x 10^{-6}]
V26A...P2	4.768 x 10^{-4} [4.14 x 10^{-4}]	5.570 x 10^{-4} [4.83 x 10^{-4}]	6.389 x 10^{-6} [5.55 x 10^{-6}]
V32A...DD	2.939 x 10^{-3} [2.55 x 10^{-3}]	2.955 x 10^{-3} [2.57 x 10^{-3}]	2.633 x 10^{-5} [2.29 x 10^{-5}]
V32A...P1	6.337 x 10^{-3} [5.50 x 10^{-3}]	6.960 x 10^{-3} [6.04 x 10^{-3}]	2.633 x 10^{-5} [2.29 x 10^{-5}]
V32A...P1.5	2.956 x 10^{-3} [2.57 x 10^{-3}]	3.371 x 10^{-3} [2.93 x 10^{-3}]	1.755 x 10^{-5} [1.52 x 10^{-5}]
V32A...P2	1.986 x 10^{-3} [1.72 x 10^{-3}]	2.298 x 10^{-3} [1.99 x 10^{-3}]	1.316 x 10^{-5} [1.14 x 10^{-5}]
V43A...DD	3.626 x 10^{-3} [3.15 x 10^{-3}]	3.658 x 10^{-3} [3.17 x 10^{-3}]	9.007 x 10^{-5} [7.82 x 10^{-5}]
V43A...P1	1.461 x 10^{-2} [1.27 x 10^{-2}]	1.566 x 10^{-2} [1.36 x 10^{-2}]	9.007 x 10^{-5} [7.82 x 10^{-5}]
V43A...P1.5	6.681 x 10^{-3} [5.80 x 10^{-3}]	7.379 x 10^{-3} [6.41 x 10^{-3}]	6.005 x 10^{-5} [5.21 x 10^{-5}]
V43A...P2	4.461 x 10^{-3} [3.87 x 10^{-3}]	4.984 x 10^{-3} [4.33 x 10^{-3}]	4.504 x 10^{-5} [3.91 x 10^{-5}]
V55A...DD	1.413 x 10^{-2} [1.23 x 10^{-2}]	1.413 x 10^{-2} [1.23 x 10^{-2}]	4.213 x 10^{-4} [3.66 x 10^{-4}]
V55A...P1	3.825 x 10^{-2} [3.32 x 10^{-2}]	3.825 x 10^{-2} [3.32 x 10^{-2}]	4.213 x 10^{-4} [3.66 x 10^{-4}]
V55A...P1.5	1.876 x 10^{-2} [1.63 x 10^{-2}]	1.876 x 10^{-2} [1.63 x 10^{-2}]	2.808 x 10^{-4} [2.44 x 10^{-4}]
V55A...P2	1.284 x 10^{-2} [1.11 x 10^{-2}]	1.284 x 10^{-2} [1.11 x 10^{-2}]	2.106 x 10^{-4} [1.83 x 10^{-4}]

Base Unit Dimensions



	V26A	V32A	V43A	V55A
A	87.4	112.8	138.2	163.6
B1	67.3	82.6	109.2	137.2
B2	82.6	101.6	127.0	152.4
C	25.4	38.1	44.5	63.5
D	M14x2.0	M20x1.5	M20x1.5	M36x2.0
E	30.2	39.4	39.4	72.0
F	175.4	204.4	240.0	293.4
G	72.9	90.5	82.7	100.8
H	87.4	112.8	138.2	163.6
J	197.7	253.2	302.1	388.2
K	48.6	64.1	75.6	82.3
L	43.7	56.4	69.1	81.8
M	138.3	161.7	190.4	232.4

	Screw Type	V26A	V32A	V43A	V55A
NL	Ballscrew	50.8	61.9	86.4	122.2
	ACME Screw	12.7	19.1	25.4	37.8
	Rollerscrew	37.5	48.4	46.4	66.4
XL	Rollerscrew	20.0	26.0	28.0	0.0

All dimensions are in millimeters (mm) unless otherwise noted.
Drawings are subject to change. Contact Precision Technology for certified drawings.

Base Unit Weights

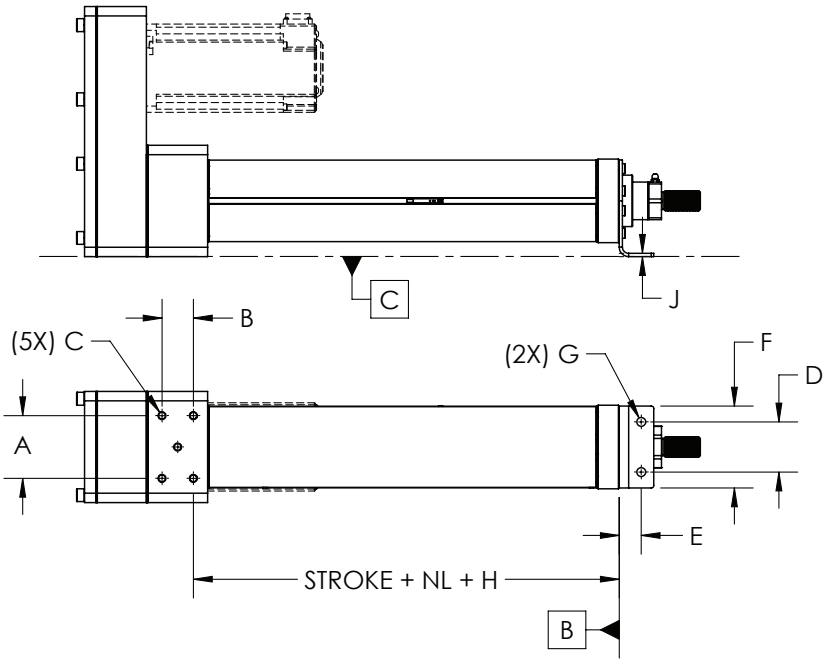
Units: kg [lbs]	Standard & FG1 models				FG2 models			
	V26A	V32A	V43A	V55A	V26A	V32A	V43A	V55A
Base Unit - Inline, ACME Screw	2.9 [6.4]	5.4 [11.9]	9.6 [21.1]	18.8 [41.5]	6.6 [14.6]	11.3 [25.0]	20.2 [44.6]	37.7 [83]
Base Unit - Inline, Ballscrew	3.3 [7.3]	6.1 [13.5]	11.1 [24.4]	22.8 [50.3]	7.2 [15.9]	12.3 [27.2]	22.2 [48.8]	42.6 [94]
Base Unit - Inline, Rollerscrew	3.8 [8.4]	7.1 [15.6]	12.3 [27.1]	22.3 [49.2]	8.3 [18.4]	14.6 [32.3]	25.4 [56.1]	41.5 [91.5]
Adder for Parallel Drive Options	0.7 [1.6]	2.2 [4.8]	4.4 [9.6]	7.1 [15.6]	1.9 [4.2]	5.7 [12.6]	11.3 [24.9]	18.5 [40.7]
Adder per inch (25.4mm) of Stroke	0.16 [0.34]	0.28 [0.63]	0.4 [0.88]	0.69 [1.53]	0.31 [0.68]	0.42 [0.92]	0.57 [1.25]	0.98 [2.17]

Reference for Fit of Motors

Please use this table for a quick check for whether your selected motor can be easily fit on the Victory of your choice. Contact Precision Technology for motors that do not match the criteria below, as we may still be able to accommodate your needs. Shaft diameters below presume use of a key, and larger shafts with or without a flat may be permissible after Engineering review.

Motor	V26A				V32A				V43A				V55A			
Attribute	DD	P1	P1.5	P2	DD	P1	P1.5	P2	DD	P1	P1.5	P2	DD	P1	P1.5	P2
Min Shaft Diameter	8	-			12	-			12	-			19	-		
Max Shaft Diameter	25	30	17	10	32	45	28	17	32	66	38	23	36	80	45	26
Min Shaft Length	20	29			30	38			25	44			34	49		
Max Shaft Length	59	36			72	48			72	56			79	59		
Max Frame	100	87			112	112			138	138			163	163		
Min Pilot/Min B.C.	47	-			63	-			63	-			76	-		
Max Pilot	98	67			111	86			133	108			158	128		
Max Bolt Circle	123	85			133	100			165	127			203	152		

Bottom Mounting Dimensions

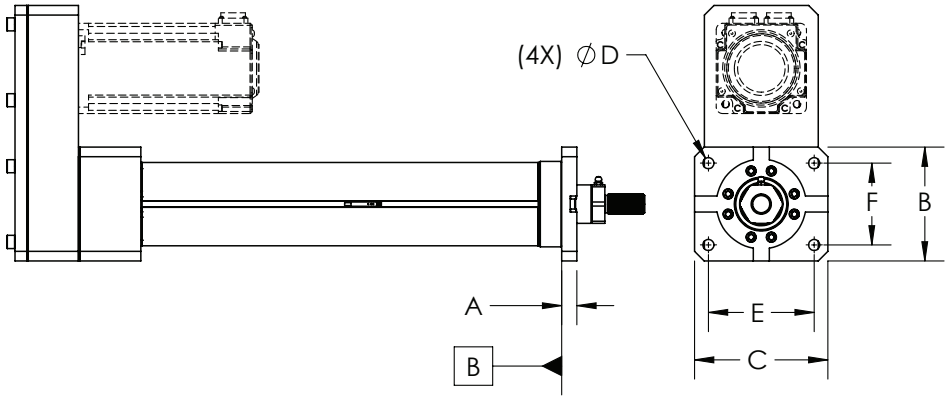


All dimensions are in millimeters (mm) unless otherwise noted.

	V26A	V32A	V43A	V55A
A	50.80	63.50	82.55	88.90
B	25.40	31.75	31.75	44.45
C	M5x0.8 ↓14	M8x1.25 ↓16	M8x1.25 ↓16	M16x2.0 ↓32
D	50.80	50.80	76.20	101.60
E	18.9	22.3	25.5	33.3
F	69.1	83.1	109.2	140.3
G	6.60	9.00	9.00	17.50
H	100.7	115.5	139.3	161.7
J	3.3	3.3	3.3	4.8

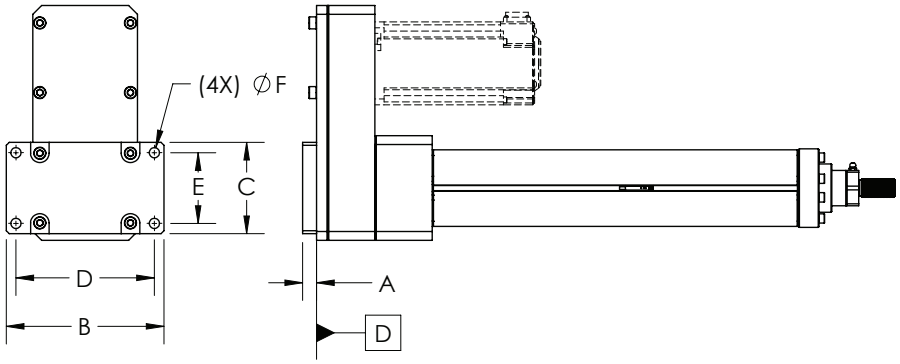
Refer to page 7 for NL dimensions.

Front Flange Mounting Dimensions



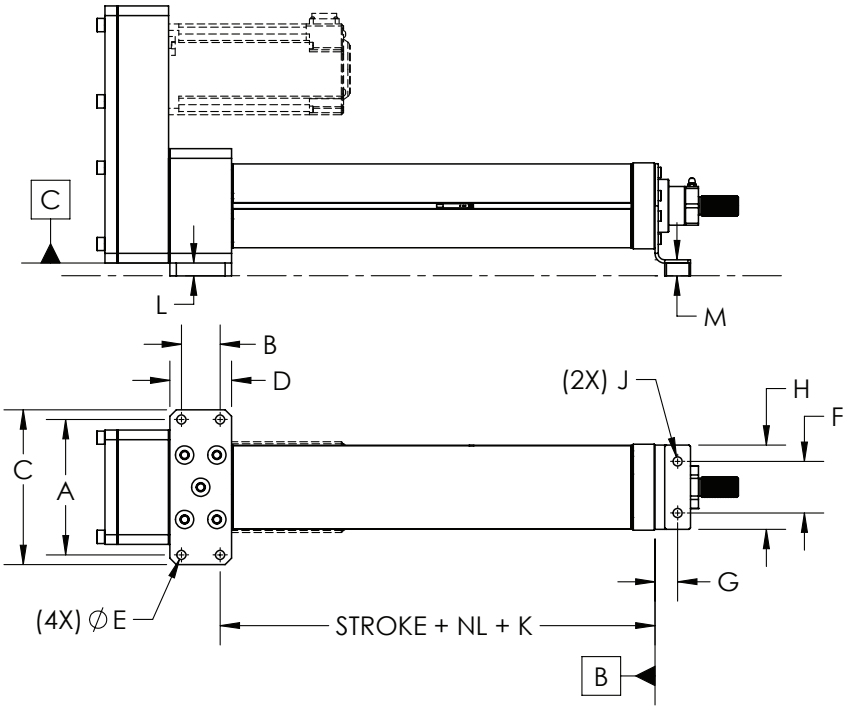
	V26A	V32A	V43A	V55A
A	15.0	15.0	18.3	24.1
B	87.4	112.8	138.2	163.6
C	87.4	132.1	150.9	163.6
D	6.60	11.00	11.00	17.50
E	72.39	104.78	123.19	133.35
F	72.39	81.03	101.60	133.35

Rear Flange Mounting Dimensions



	V26A	V32A	V43A	V55A
A	11.7	15.0	15.0	24.1
B	126.0	169.9	201.7	241.3
C	75.2	98.4	125.5	150.9
D	111.76	149.23	177.80	209.55
E	60.96	76.20	100.08	88.90
F	6.60	11.00	11.00	15.50

Bottom Plate Mounting Dimensions

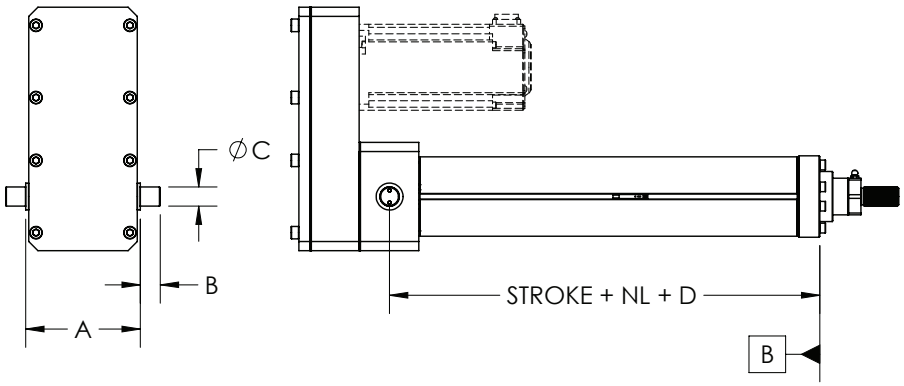


All dimensions are in millimeters (mm) unless otherwise noted.

	V26A	V32A	V43A	V55A
A	107.95	133.35	158.75	209.55
B	30.48	38.10	44.45	63.50
C	120.7	152.4	177.8	247.7
D	49.7	60.6	70.4	97.0
E	6.60	9.00	9.00	17.50
F	50.80	50.80	76.20	101.60
G	18.9	22.3	25.5	33.3
H	69.1	83.1	109.2	140.3
J	6.60	9.00	9.00	17.50
K	98.2	112.3	133.0	152.1
L	7.9	12.5	12.5	24.4
M	7.9	12.5	12.5	24.4

Refer to page 7 for NL dimensions.

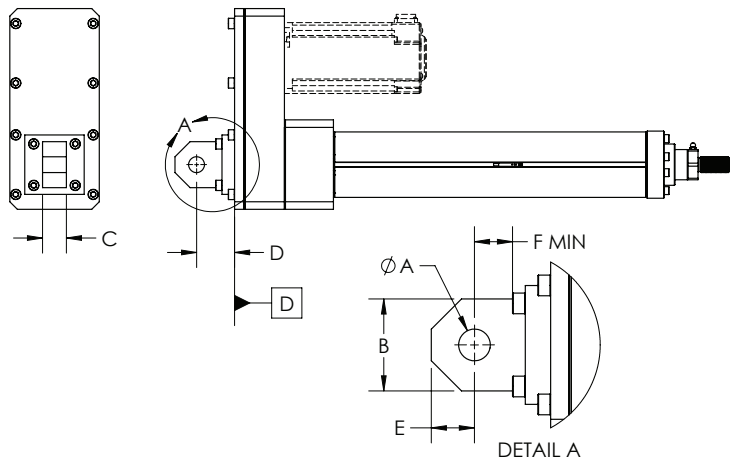
Trunnion Mounting Dimensions



	V26A	V32A	V43A	V55A
A	93.7	119.1	149.6	175.0
B	20.8	20.8	36.5	36.5
C	20.00 g7	20.00 g7	40.00 g7	40.00 g7
D	113.4	131.4	155.2	183.9

Refer to page 7 for NL dimensions.

Rear Clevis Mounting Dimensions



	V26A	V32A	V43A	V55A
A	14.0 H9	20.0 H9	20.0 H9	28.0 H9
B	34.0	58.0	58.0	68.0
C	20.0 h13	30.0 h13	30.0 h13	40.0 h13
D	30.9	48.0	48.0	59.0
E	15.5	27.2	27.2	31.0
F	13.0	24.0	24.0	25.0

Rod End Dimensions

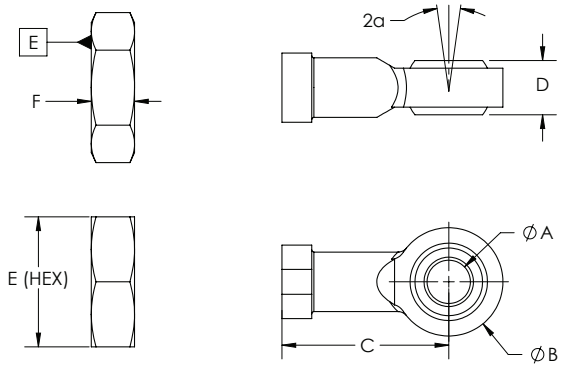
All dimensions are in millimeters (mm) unless otherwise noted.

Victory A Series Actuators can be configured with either a Male Thread (MT) or Female Thread (FT) rod end. This primary rod end is made of 300-series stainless steel and includes the grease fitting for lubrication of the actuator while it is in service.

Select the MT rod end option when considering the addition of the ISO standard rod end attachments below.

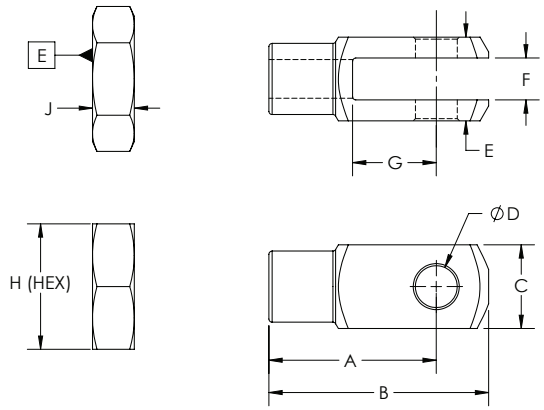
	V26A	V32A	V43A	V55A
MT Rod End	M14x2.0 x 30.2 L	M20x1.5 x 39.4 L	M20x1.5 x 39.4L	M36x2.0 x 72.0 L
FT Rod End	M14x2.0 ↓ 20	M20x1.5 ↓ 28	M20x1.5 ↓ 28	M36x2.0 ↓ 50

Spherical Joint Attachment



	V26A	V32A	V43A	V55A
A	14 H7	20 H7	20 H7	35 H7
B	36	50	50	80
C	57	77	77	125
D	19	25	25	43
E	22	30	30	55
F	7	10	10	18
a	16°	14°	14°	19°

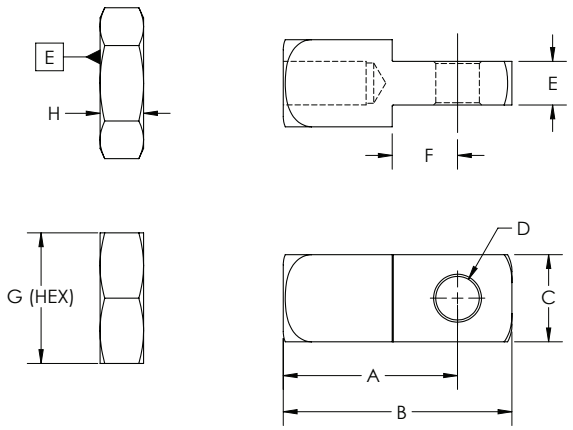
Female Clevis Attachment



	V26A	V32A	V43A	V55A
A[1]	56	80	80	144
B[2]	72	105	105	188
C	27 h11	40 h11	40 h11	70 h11
D	14 H9	20 H9	20 H9	35 H9
E	27[3]	40[4]	40[4]	70[4]
F[5]	14	20	20	35
G[2]	28	40	40	54
H	22	30	30	55
J	7	10	10	18

[1] +/- .4mm
[2] +/- .5mm
[3] +.3 / - .16mm
[4] +.5 / - .2mm
[5] +.15 / +.7mm

Male Clevis Attachment



	V26A	V32A	V43A	V55A
A[1]	56	80	80	140
B[2]	72	105	105	175
C	27 h11	40 h11	40 h11	65 h11
D	14 H9	20 H9	20 H9	35 H9
E[3]	14	20	20	35
F	21	30	30	50
G	22	30	30	55
H	7	10	10	18

[1] +/- .3mm
[2] +/- .5mm
[3] +0 / - .2mm

Victory A Series Ordering Codes

	1	2	3	4	5	6	7	8	9
Order Example:	V26A-	FG1-	B020E-	DD-	12.0-	BM-	MT-	FC-EN2P-	ALB12X

1	Size & Version
V26A	V26, A Series
V32A	V32, A Series
V43A	V43, A Series
V55A	V55, A Series

2	Environmental Version
(blank)	Standard
FG1	Food Grade - Epoxy Painted Body
FG2	Food Grade - Full Stainless Exterior

3	Screw Type & Lead
•••••	See Table Below For Valid Codes

4	Drive Type
DD	Inline Motor Mounting w/Coupling
P1	1:1 Ratio Parallel Motor Mounting
P1.5	1.5:1 Ratio Parallel Motor Mounting
P2	2:1 Ratio Parallel Motor Mounting

5	Stroke
00.0	Stroke in inches

6	Actuator Mounting
BM	Bottom Mounting w/Front Support
BP	Bottom Plate Mounting
CR	Rear Clevis Mounting[1]
TF	Trunnion Mounting
FF	Front Flange Mounting
FR	Rear Flange Mounting[1]
FB	Front & Rear Flange Mounting[1]

7	Rod End
MT	Male Thread Rod End[2]
FT	Female Thread Rod End

8	Options / Accessories
SJ	Spherical Joint Rod End Attachment[2]
FC	Female Clevis Rod End Attachment[2]
MC	Male Clevis Rod End Attachment[2]
EN2P	PNP Sensors, 2 Normally Closed
EN2N	NPN Sensors, 2 Normally Closed
EN2R	Reed Sensors, 2 Normally Closed
EN3P	PNP Sensors, 2 N.C., 1 N.O.
EN3N	NPN Sensors, 2 N.C., 1 N.O.
EN3R	Reed Sensors, 2 N.C., 1 N.O.
TB	Mating Bushings For Trunnion Mount
CONN	FG2 Limit Sensor Connector[3]

9	Motor Adaption Code
•••••	Consult Factory For Motor Code

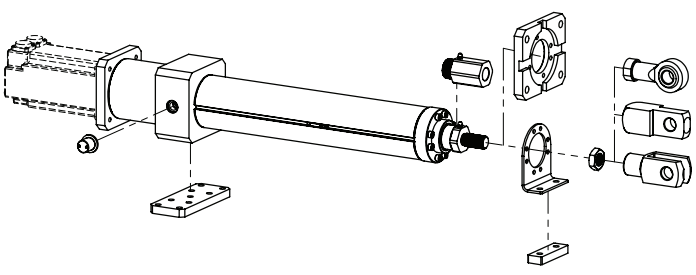
[1] CR, FR, FB mounting options only available with P1, P1.5, and P2 parallel motor mounting options.
[2] Select MT rod end option for use with SJ, FC, and MC rod end attachments.
[3] CONN option only for FG2 environmental version; Consult factory for sensor cable options.

Screw Type	Lead mm[inch]	Code	V26A	V32A	V43A	V55A
Ballscrews	5.08 [0.20]	B020E	•	•		
	6.35 [0.25]	B025E			•	•
	12.7 [0.50]	B050E	•	•	•	•
	25.4 [1.00]	B100E	•		•	•
	47.62 [1.875]	B188E				•
ACME Screws	5.08 [0.20]	A020E	•	•		
	6.35 [0.25]	A025E			•	•
Rollerscrews	5.0 [0.197]	R05M	•	•	•	•
	10.0 [0.394]	R10M	•	•	•	•

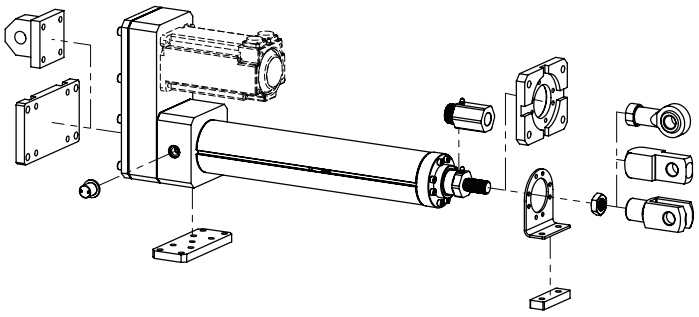
Meeting **Your** Specific Requirements

We recognize that each application is unique, and welcome opportunities that require modifications to our standard products, or in some cases, complete custom designs. Allow us to evaluate your specific needs. We thrive on the actuator opportunities that others consider too tough to solve.

Inline Options Overview



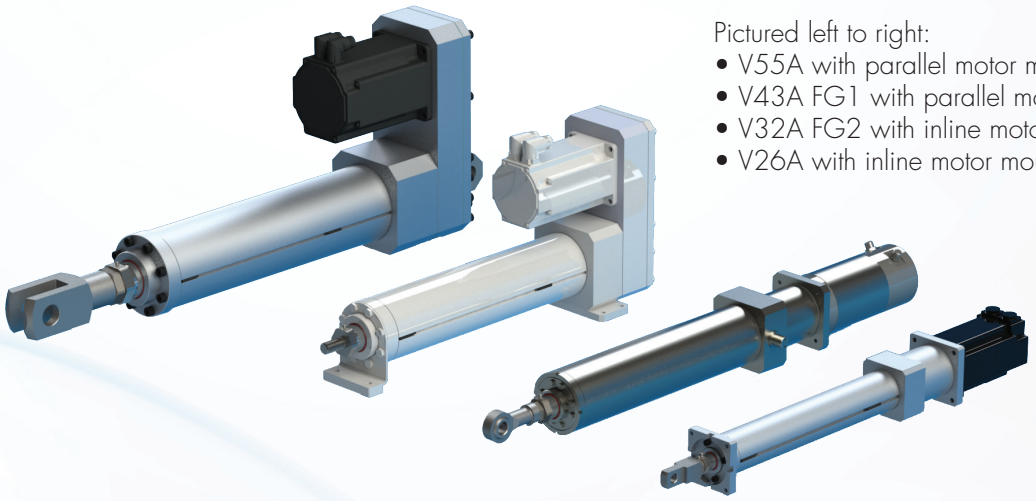
Parallel Options Overview



Victory A Series Actuators

Attribute	Units	Model V26A	Model V32A	Model V43A	Model V55A
Max Force	kN [lb-f]	6.2 [1400]	12.8 [2890]	17.3 [3890]	52.7 [11865]
Max Speed	m/sec [in/sec]	2.01 [79.2]	0.86 [34.1]	1.27 [50]	1.58 [62.5]
Max Stroke	mm [inches]	610 [24.0]	762 [30.0]	1524 [60.0]	1524 [60.0]

Performance of specific configurations is dependent on many factors including stroke length and options. Please review this brochure thoroughly.



Pictured left to right:
- V55A with parallel motor mounting
- V43A FG1 with parallel motor mounting
- V32A FG2 with inline motor mounting
- V26A with inline motor mounting

L O N G E R, *FASTER* & MORE **ROBUST** ACTUATORS

For additional information about the Precision Technology Group,
or to discuss specific application details, please contact us.

The Americas

+1 (540) 857-9871
ptsales@pt-usa.net

UK, Europe, Africa

+44 (0) 1747 858585
info@seawaypowell.com

Australia, NZ, Asia

+61 (8) 8333 0222
info@hypac.com.au

Precision Technology USA ENGINEERED ACTUATORS
www.pt-usa.net
ISO 9001:2008

Hypac
www.hypac.com.au

SeawayPowell MARINE ENGINEERS
www.seawaypowell.com

SP GEARS
www.spgears.com

PT GROUP
THE POWER BEHIND PERFORMANCE