

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Ametek / Haydon Kerk 26844-12* at our website: ***Click HERE***

An industry standard... high versatility, robust performance.

Salient Characteristics

Ø 26 mm (1-in) motor					
Wiring		Bipolar			
Part No.	Captive	2644X-V		2654X-V	
	Non-captive	2634X-V		2684X-V	
	External	E2644X-V		E2654X-V	
Step angle		7.5°		15°	
Winding voltage		5 VDC	12 VDC	5 VDC	12 VDC
Current (RMS)/phase		340 mA	140 mA	340 mA	140 mA
Resistance/phase		14.7 Ω	84 Ω	14.7 Ω	84 Ω
Inductance/phase		8.5 mH	55 mH	6.7 mH	44 mH
Power consumption		3.4 W			
Rotor inertia		1.2 gcm²			
Insulation Class		Class B			
Weight		1.2 oz (35 g)			
Insulation resistance		20 MΩ			

Ø 26 mm (1-in) motor					
Wiring		Unipolar**			
Part No.	Captive	2646X-V		2656X-V	
	Non-captive	2636X-V		2686X-V	
	External	E2646X-V		E2656X-V	
Step angle		7.5°		15°	
Winding voltage		5 VDC	12 VDC	5 VDC	12 VDC
Current (RMS)/phase		340 mA	140 mA	340 mA	140 mA
Resistance/phase		14.7 Ω	84 Ω	14.7 Ω	84 Ω
Inductance/phase		4.3 mH	24 mH	3.4 mH	19 mH
Power consumption		3.4 W			
Rotor inertia		1.2 gcm²			
Insulation Class		Class B			
Weight		1.2 oz (35 g)			
Insulation resistance		20 MΩ			

* Unipolar drive gives approximately 30% less thrust than bipolar drive.



Other 26000 Series styles available...

- Z-Series
- High Resolution Series
- Long-Stroke Metric Series
- TFE lead-screw
- High Temperature Option

Linear Travel/Step			Order Code I.D.
Step	inches	mm	
7.5° Angle	0.0005	0.013	3
	0.001	0.0254	1
	0.002	0.051	2
15° Angle	0.001	0.0254	1
	0.002	0.051	2
	0.004	0.102	4

Special drive considerations may be necessary when leaving shaft fully extended or fully retracted.

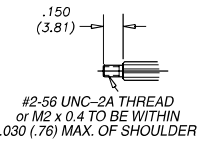
Standard motors are Class B rated for maximum temperature of 130° C (266° F).

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

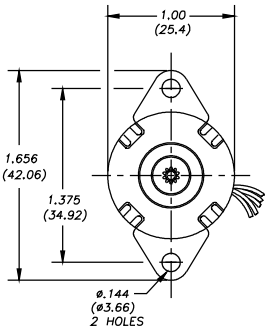
Captive Lead-screw

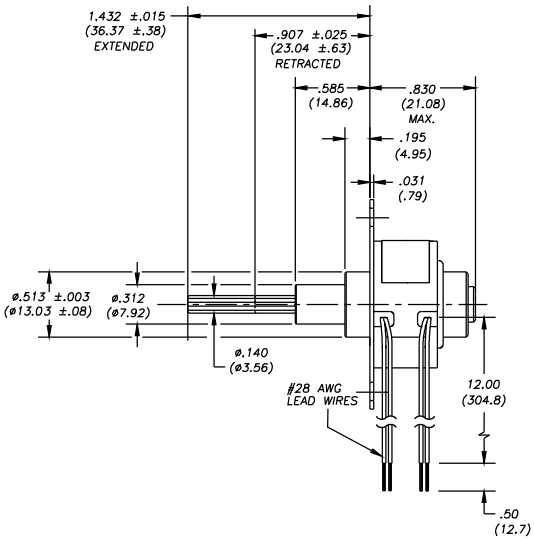
Dimensions = inches (mm)

Spline Options



Spline is also available with optional #4-40 UNC-2A or M3 x 0.5 threaded adapter as shown in non-captive drawing.

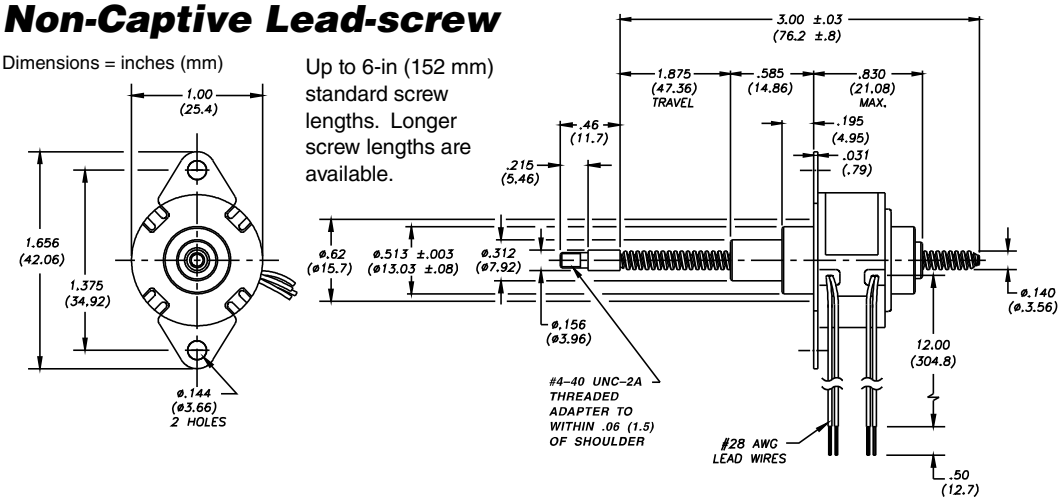




Non-Captive Lead-screw

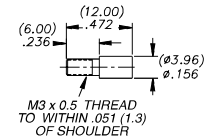
Dimensions = inches (mm)

Up to 6-in (152 mm) standard screw lengths. Longer screw lengths are available.



Optional Adapter

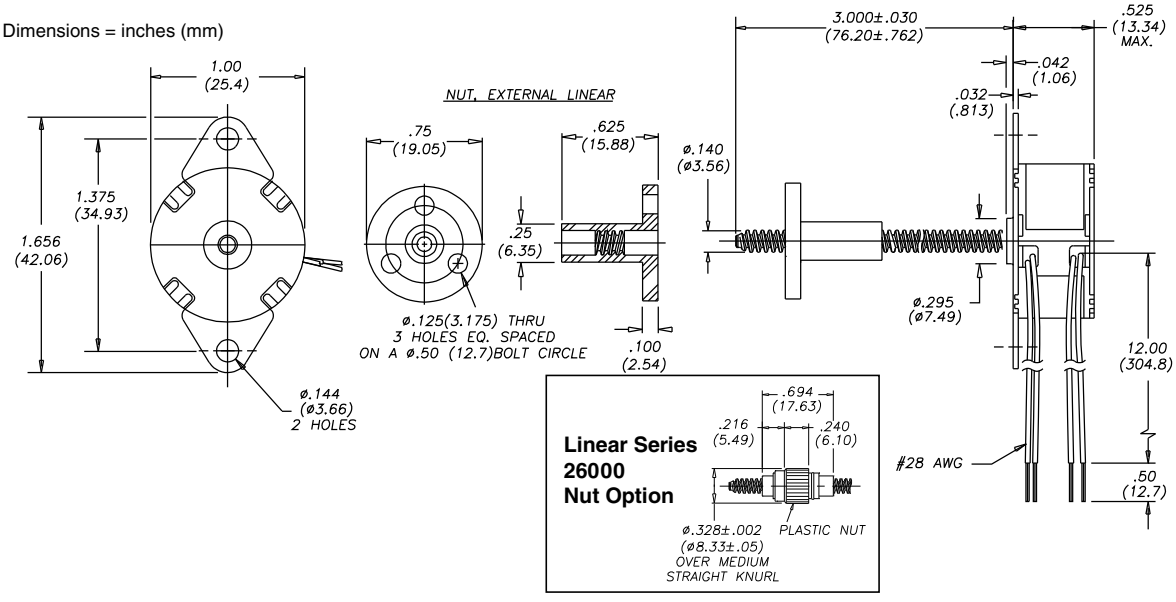
Dimensions = (mm) inches



External Linear

Dimensions = inches (mm)

Up to 6-in (152 mm) standard screw lengths. Longer screw lengths are available.



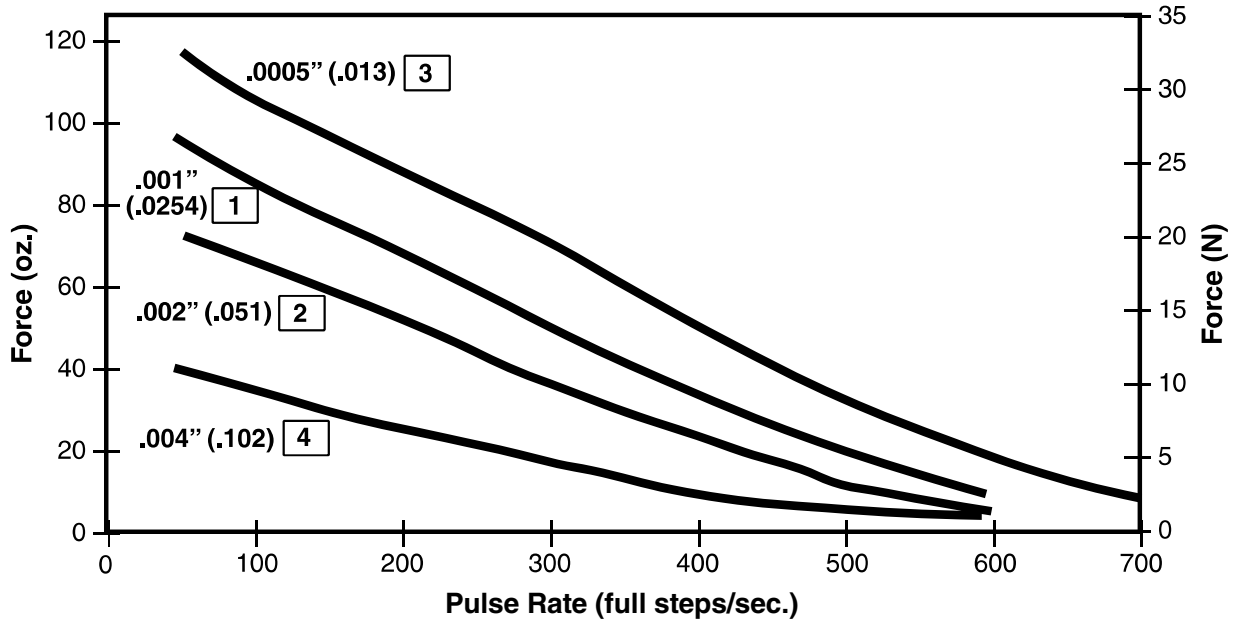
Linear Series 26000 Nut Option

CAN-STACK LINEAR ACTUATOR MOTORS

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

FORCE vs. PULSE RATE

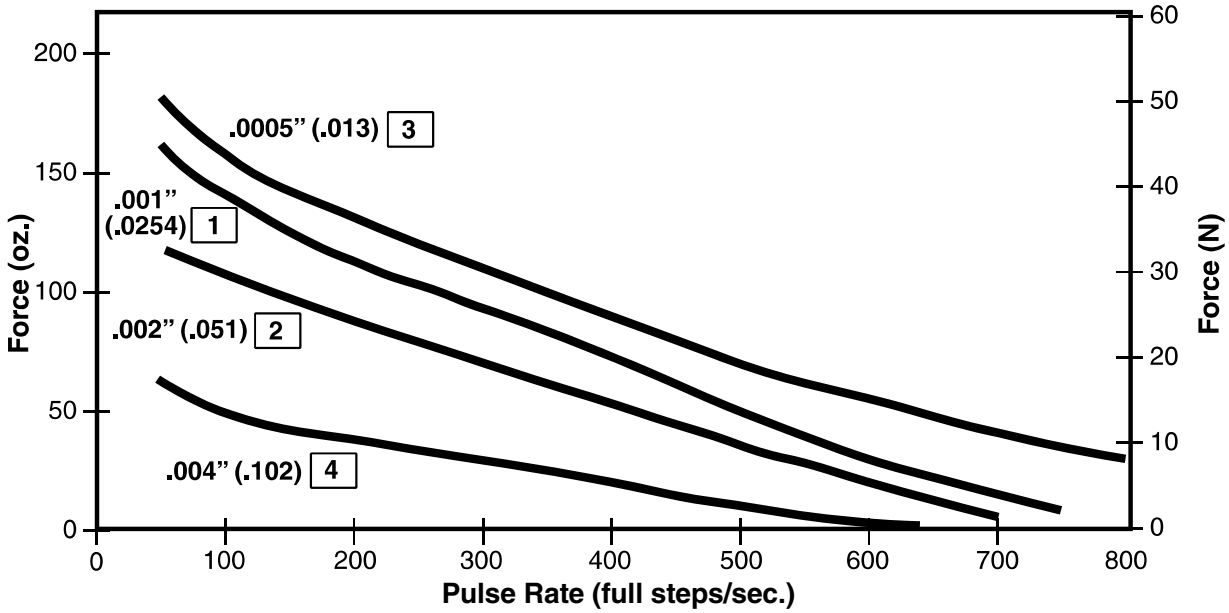
L/R Drive • Bipolar • 100% Duty Cycle



FORCE vs. PULSE RATE

L/R Drive • Bipolar • 25% Duty Cycle

25% duty cycle is obtained by a special winding or by running a standard motor at double the rated voltage.

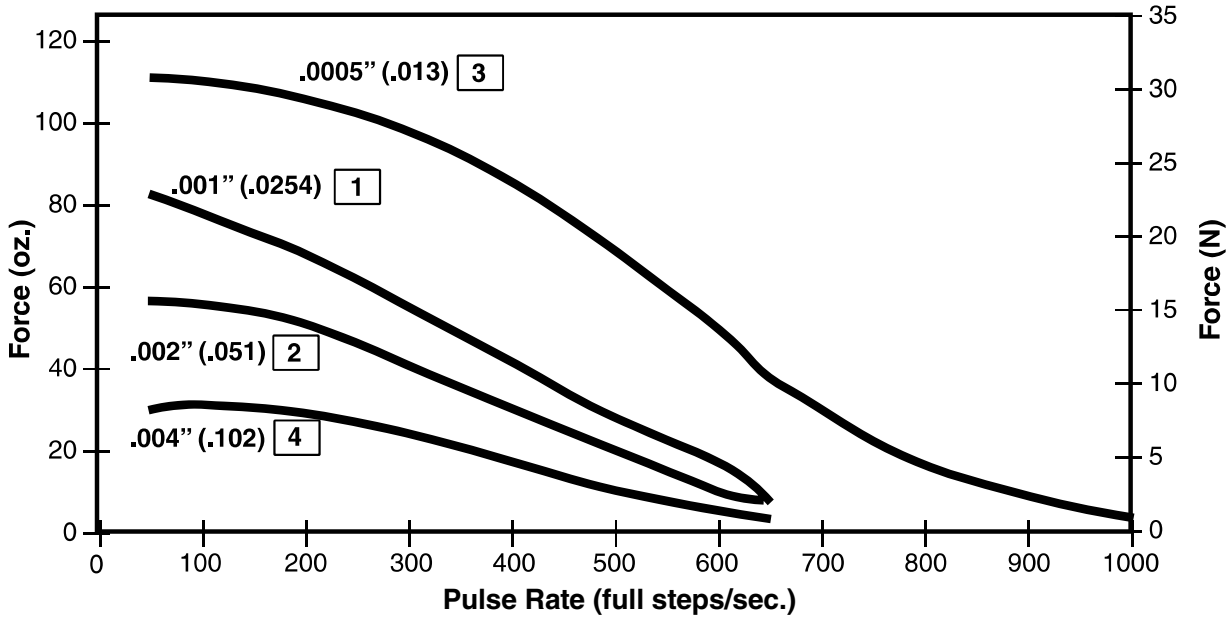


NOTE: Ramping can increase the performance of a motor either by increasing the top speed or getting a heavier load accelerated up to speed faster. Also, deceleration can be used to stop the motor without overshoot.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

FORCE vs. PULSE RATE

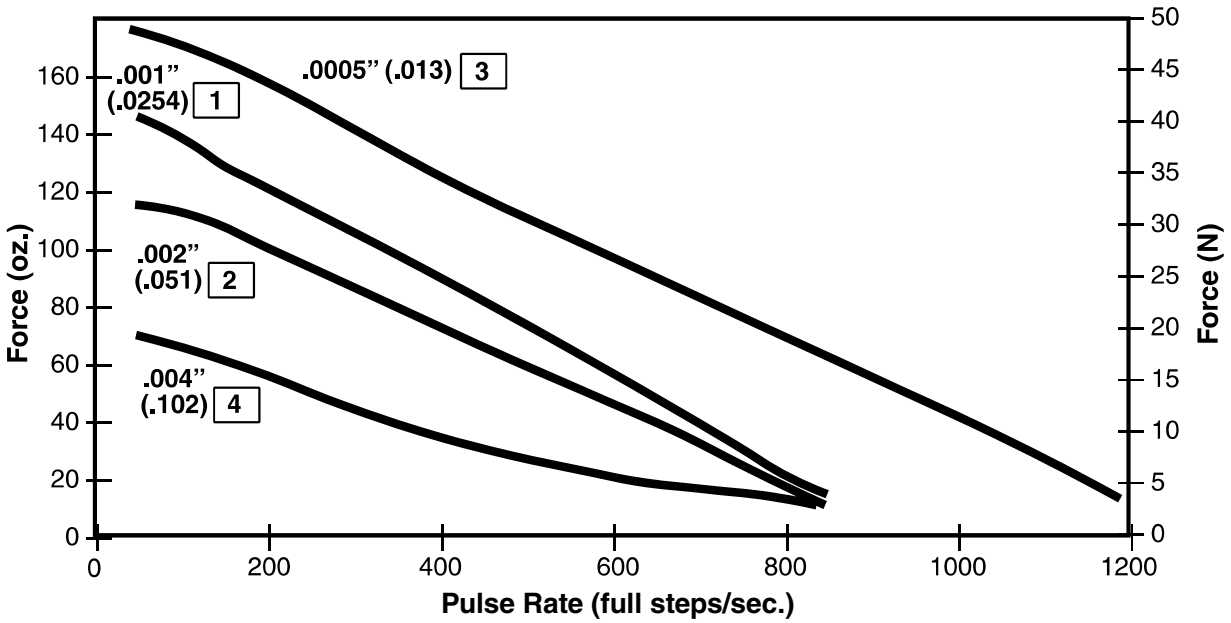
Chopper Drive • Bipolar • 100% Duty Cycle



FORCE vs. PULSE RATE

Chopper Drive • Bipolar • 25% Duty Cycle

25% duty cycle is obtained by a special winding or by running a standard motor at double the rated current.

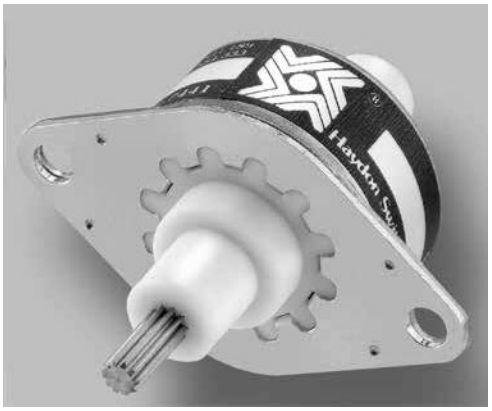


NOTE: All chopper drive curves were created with a 5 Volt motor and a 40 Volt power supply.

Ramping can increase the performance of a motor either by increasing the top speed or getting a heavier load accelerated up to speed faster. Also, deceleration can be used to stop the motor without overshoot.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

A Ø 26 mm (1-in) stepper motor designed to accommodate high volume applications.



Salient Characteristics

Ø 26 mm (1-in) Z-Series motor					
Wiring		Bipolar			
Part No.	Captive	Z2644X-V		Z2654X-V	
	Non-captive	Z2634X-V		Z2684X-V	
	External**	Z2644X-V**		Z2654X-V**	
Step angle		7.5°		15°	
Winding voltage		5 VDC	12 VDC	5 VDC	12 VDC
Current (RMS)/phase		340 mA	140 mA	340 mA	140 mA
Resistance/phase		14.7 Ω	84 Ω	14.7 Ω	84 Ω
Inductance/phase		8.5 mH	55 mH	6.7 mH	44 mH
Power consumption		3.4 W			
Rotor inertia		1.4 gcm^2			
Insulation Class		Class B			
Weight		1.2 oz (34 g)			
Insulation resistance		20 MΩ			

Ø 26 mm (1-in) Z-Series motor					
Wiring		Unipolar*			
Part No.	Captive	Z2646X-V		Z2656X-V	
	Non-captive	Z2636X-V		Z2686X-V	
	External**	Z2646X-V**		Z2656X-V**	
Step angle		7.5°		15°	
Winding voltage		5 VDC	12 VDC	5 VDC	12 VDC
Current (RMS)/phase		340 mA	140 mA	340 mA	140 mA
Resistance/phase		14.7 Ω	84 Ω	14.7 Ω	84 Ω
Inductance/phase		4.3 mH	24 mH	3.4 mH	19 mH
Power consumption		3.4 W			
Rotor inertia		1.4 gcm^2			
Insulation Class		Class B			
Weight		1.2 oz (34 g)			
Insulation resistance		20 MΩ			

The Z26000 Series motors are ideal for high volume. Utilizing rare earth (neodymium) magnets. Also, available in a special "earless" configuration without a mounting flange.

All units are built with durable dual ball bearings.

Linear Travel/Step			Order Code I.D.
Step	inches	mm	
7.5° Angle	0.0005	0.013	3
	0.001	0.0254	1
	0.002	0.051	2
15° Angle	0.00164	0.04166	AS
	0.002	0.051	2
	0.004	0.102	4

Special drive considerations may be necessary when leaving shaft fully extended or fully retracted.

Standard motors are Class B rated for maximum temperature of 130° C (266° F).

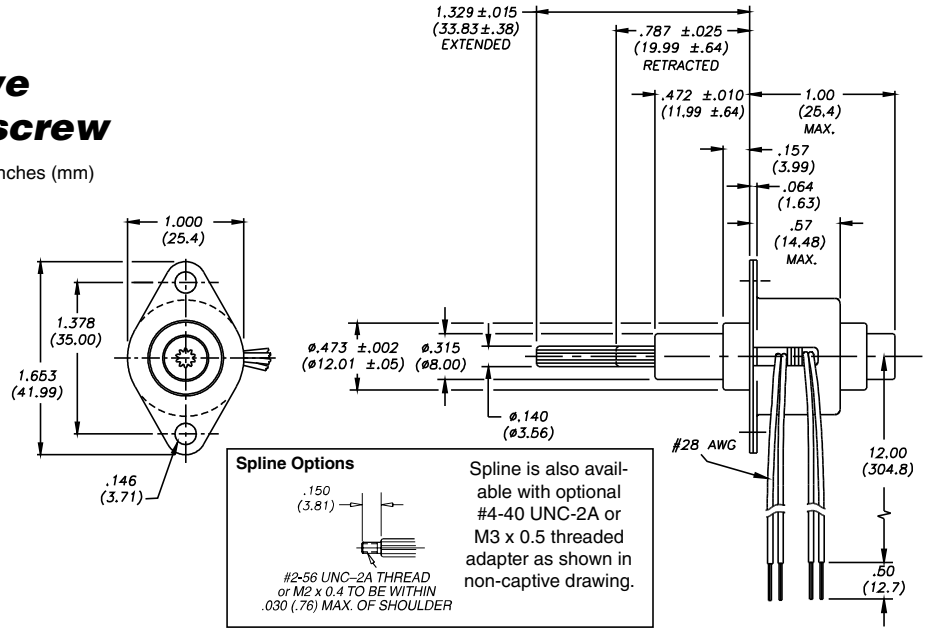
* Unipolar drive gives approximately 40% less thrust vs. bipolar drive.

** When ordering Z-Series External Linear motors, add -900 to end of the Part Number.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Captive Lead-screw

Dimensions = inches (mm)



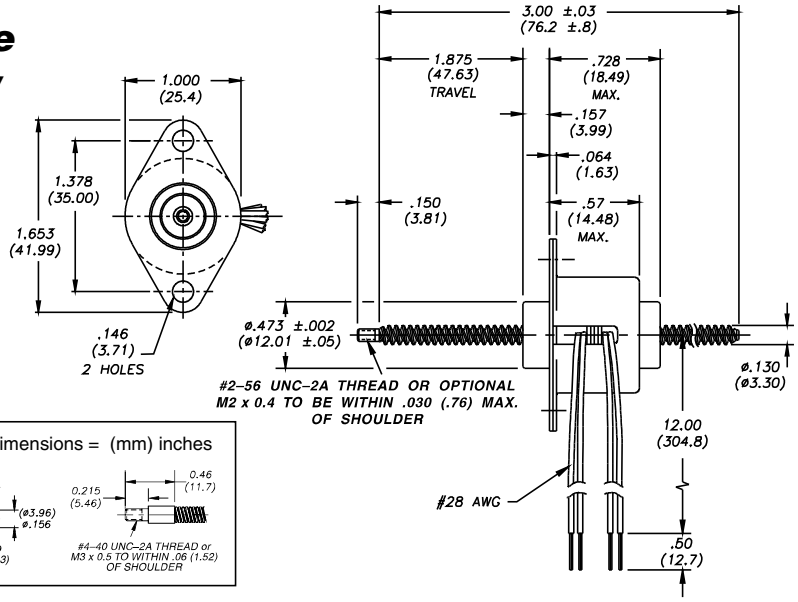
Spline Options

Spline is also available with optional #4-40 UNC-2A or M3 x 0.5 threaded adapter as shown in non-captive drawing.

Non-Captive Lead-screw

Dimensions = inches (mm)

Up to 6-in (152 mm) standard screw lengths. Longer screw lengths are available.

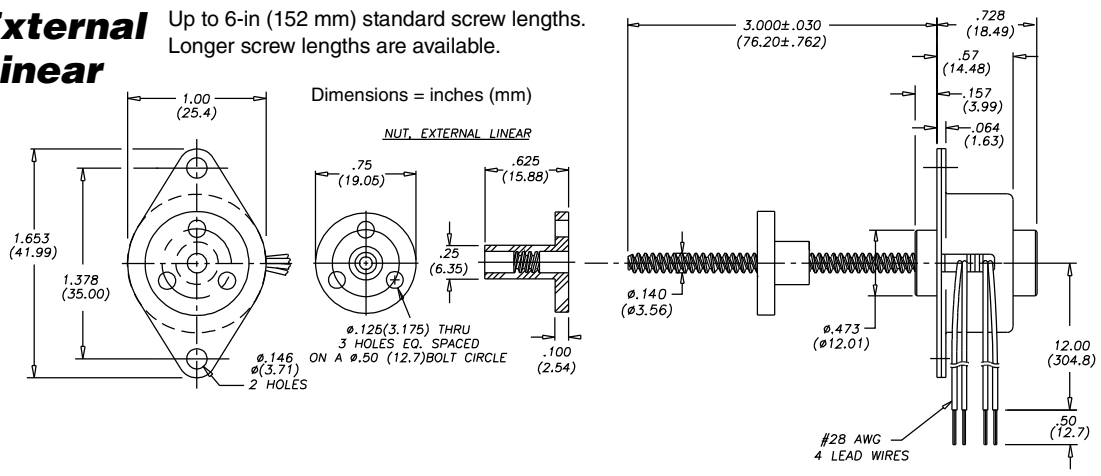


Optional Adapters Dimensions = (mm) inches

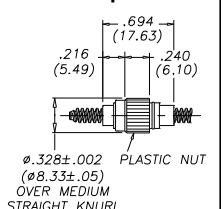
External Linear

Up to 6-in (152 mm) standard screw lengths. Longer screw lengths are available.

Dimensions = inches (mm)



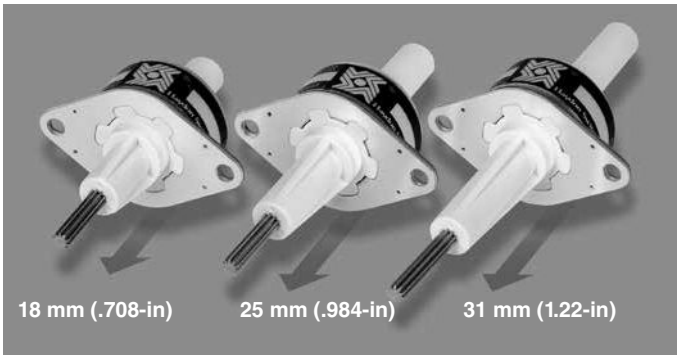
Linear Series Z26000 Nut Option



CAN-STACK LINEAR ACTUATOR MOTORS

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Specially engineered Z26000 (Ø 26 mm, 1-in) linear actuators that extend captive lead-screw travel beyond 12.7 mm (1/2-in).



Salient Characteristics

Ø 26 mm (1-in) Z-Series motor					
Wiring		Bipolar			
Part No.	Captive	Z2644X-V		Z2654X-V	
Step angle		7.5°		15°	
Winding voltage		5 VDC	12 VDC	5 VDC	12 VDC
Current (RMS)/phase		340 mA	140 mA	340 mA	140 mA
Resistance/phase		14.7 Ω	84 Ω	14.7 Ω	84 Ω
Inductance/phase		8.5 mH	55 mH	6.7 mH	44 mH
Power consumption		3.4 W			
Rotor inertia		1.4 gcm²			
Insulation Class		Class B			
Weight		1.2 oz (34 g)			
Insulation resistance		20 MΩ			

Ø 26 mm (1-in) Z-Series motor					
Wiring		Unipolar*			
Part No.	Captive	Z2646X-V		Z2656X-V	
Step angle		7.5°		15°	
Winding voltage		5 VDC	12 VDC	5 VDC	12 VDC
Current (RMS)/phase		340 mA	140 mA	340 mA	140 mA
Resistance/phase		14.7 Ω	84 Ω	14.7 Ω	84 Ω
Inductance/phase		4.3 mH	24 mH	3.4 mH	19 mH
Power consumption		3.4 W			
Rotor inertia		1.4 gcm²			
Insulation Class		Class B			
Weight		1.2 oz (34 g)			
Insulation resistance		20 MΩ			

Linear Travel/Step			Order Code I.D.
Step	inches	mm	
7.5° Angle	0.0005	0.013	3
	0.001	0.0254	1
	0.002	0.051	2
15° Angle	0.00164	0.04166	AS
	0.002	0.051	2
	0.004	0.102	4

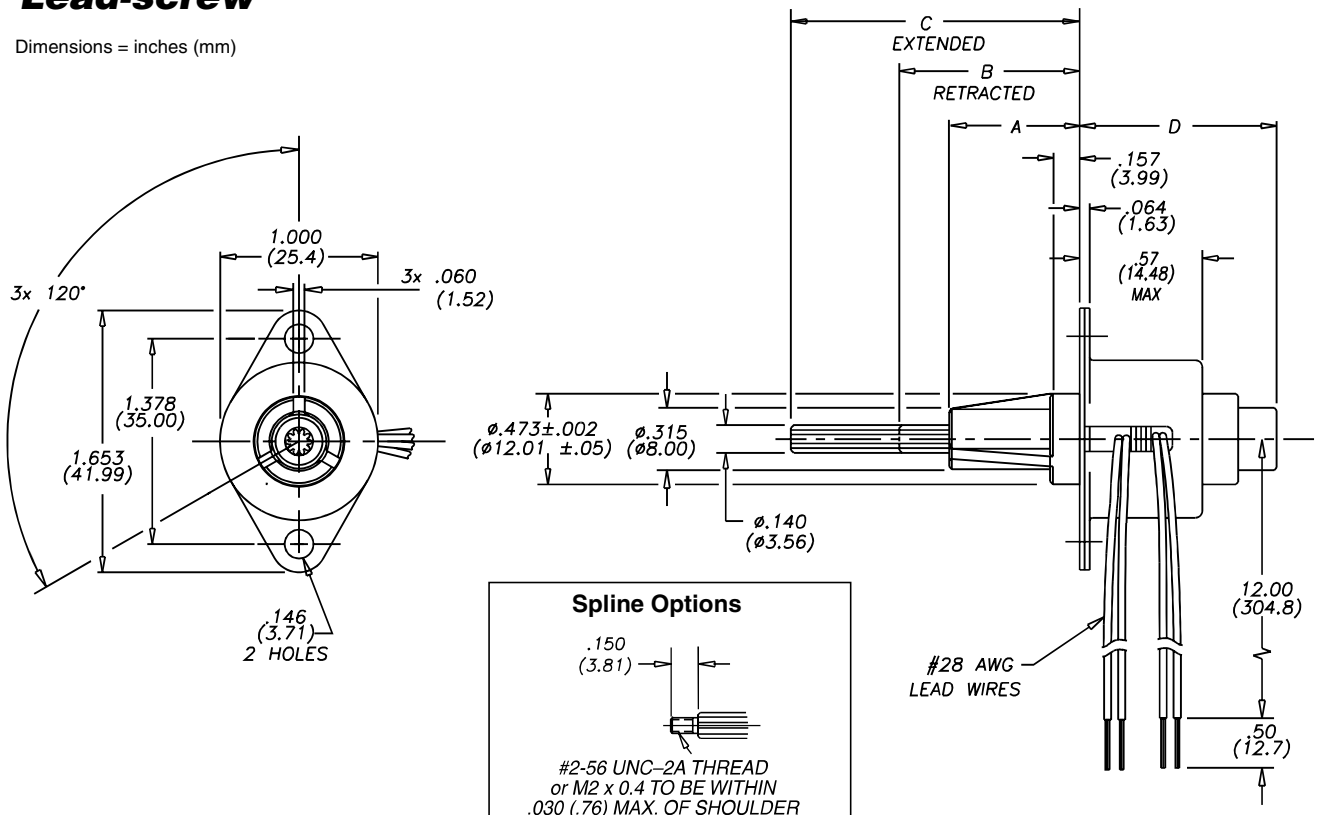
Standard motors are Class B rated for maximum temperature of 130° C (266° F).

* Unipolar drive gives approximately 40% less thrust vs. bipolar drive.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Captive Lead-screw

Dimensions = inches (mm)



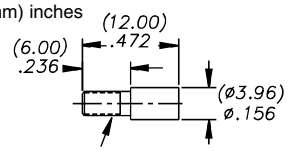
Spline Options

#2-56 UNC–2A THREAD
or M2 x 0.4 TO BE WITHIN
.030 (.76) MAX. OF SHOULDER

Dimensions = (mm) inches

Adapter Option

Spline is also available with optional #4-40 UNC-2A or M3 x 0.5 threaded adapter.



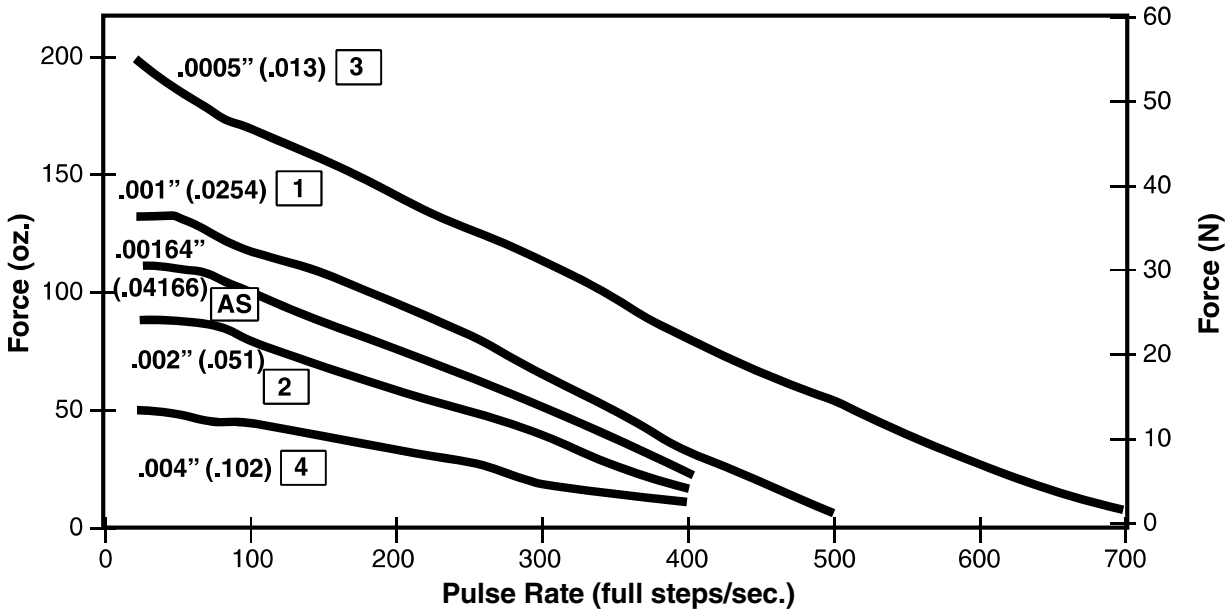
M3 x 0.5 THREAD
TO WITHIN .051 (1.3)
OF SHOULDER

Stroke (min.)	Front Sleeve A	Retracted B	Extended C	Rear Sleeve D	Suffix Code
.708 (18 mm)	.679±.010 (17.25±.25)	.994±.025 (25.25±.64)	1.743±.015 (44.27±.38)	1.21 max. (30.7 max.)	– 907
.984 (25 mm)	.955±.010 (24.26±.25)	1.269±.025 (32.23±.64)	2.293±.015 (58.24±.38)	1.48 max. (37.6 max.)	– 910
1.22 (31 mm)	1.191±.010 (30.25±.25)	1.505±.025 (38.23±.64)	2.765±.015 (70.23±.38)	1.72 max. (43.7 max.)	– 912

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

FORCE vs. PULSE RATE

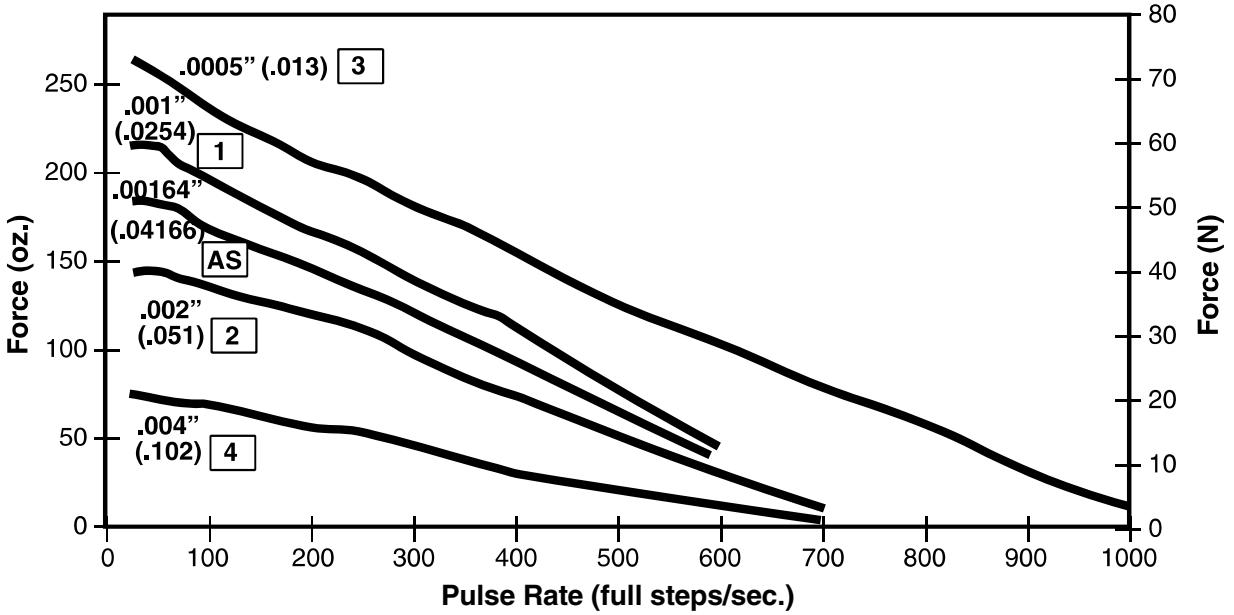
L/R Drive • Bipolar • 100% Duty Cycle



FORCE vs. PULSE RATE

L/R Drive • Bipolar • 25% Duty Cycle

25% duty cycle is obtained by a special winding or by running a standard motor at double the rated voltage.

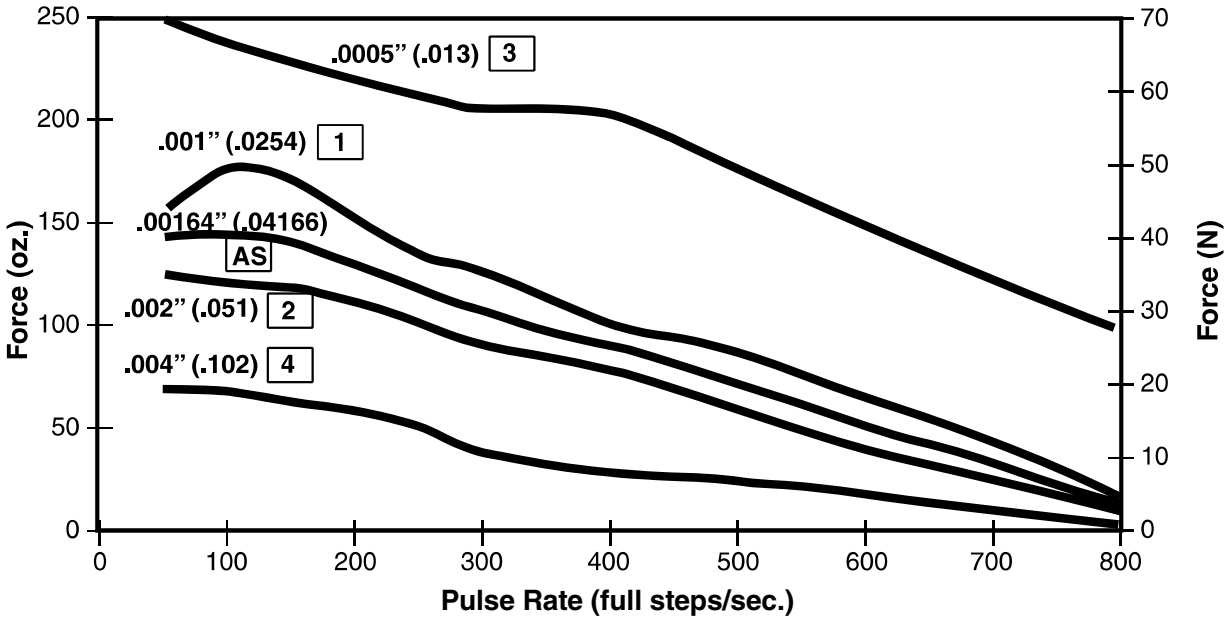


NOTE: Ramping can increase the performance of a motor either by increasing the top speed or getting a heavier load accelerated up to speed faster. Also, deceleration can be used to stop the motor without overshoot.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

FORCE vs. PULSE RATE

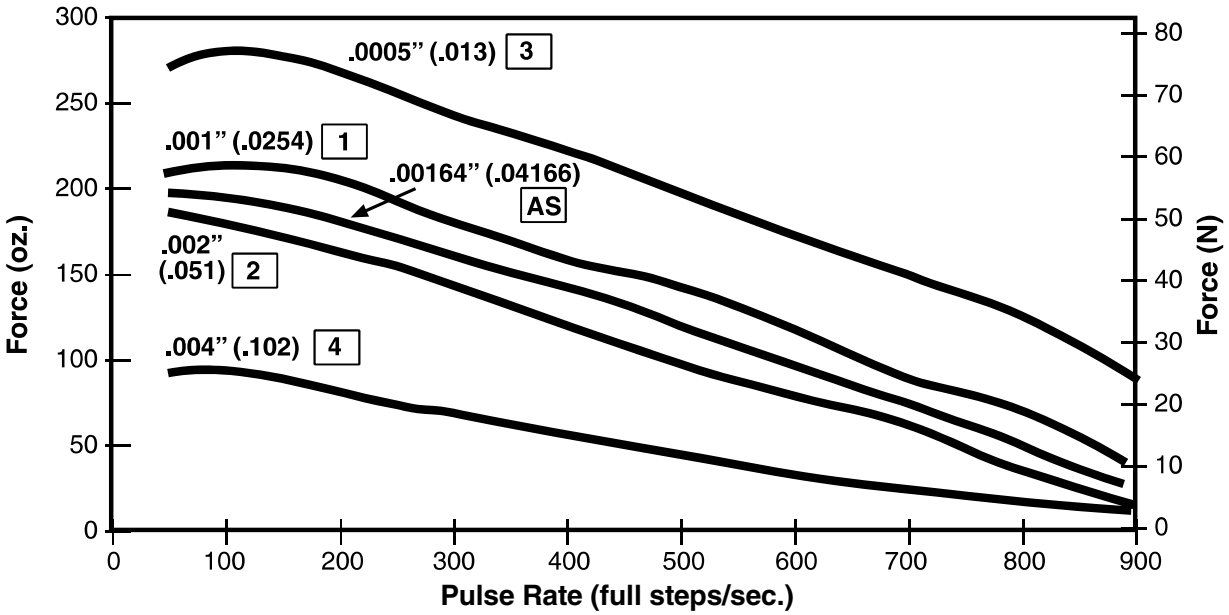
Chopper Drive • Bipolar • 100% Duty Cycle



FORCE vs. PULSE RATE

Chopper Drive • Bipolar • 25% Duty Cycle

25% duty cycle is obtained by a special winding or by running a standard motor at double the rated current.



NOTE: All chopper drive curves were created with a 5 Volt motor and a 40 Volt power supply.

Ramping can increase the performance of a motor either by increasing the top speed or getting a heavier load accelerated up to speed faster. Also, deceleration can be used to stop the motor without overshoot.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



High resolution steppers for applications requiring fine step increments down to 0.00025-in (0.0064 mm).

The Haydon™ High Resolution 26000 Series features the smallest capability in a permanent magnet linear actuator. Motors can also be electronically micro-stepped.

Salient Characteristics

Ø 26 mm (1-in) High Resolution Motor					
Wiring		Bipolar		Unipolar*	
Part No.	Captive	26449-V		26469-V	
	Non-captive	26349-V		26369-V	
	External	E26449-V		E26469-V	
Step angle		7.5°			
Winding voltage		5 VDC	12 VDC	5 VDC	12 VDC
Current (RMS)/phase		340 mA	140 mA	340 mA	140 mA
Resistance/phase		14.7 Ω	84 Ω	14.7 Ω	84 Ω
Inductance/phase		8.5 mH	55 mH	4.3 mH	24 mH
Power consumption		3.4 W			
Rotor inertia		1.2 gcm^2			
Insulation Class		Class B			
Weight		1.2 oz (35 g)			
Insulation resistance		20 MΩ			

* Unipolar drive gives approximately 30% less thrust vs. bipolar drive.

Linear Travel/Step: Bipolar & Unipolar			Order Code I.D.
Step	inches	mm	
7.5° Angle	0.00025	0.00643	9

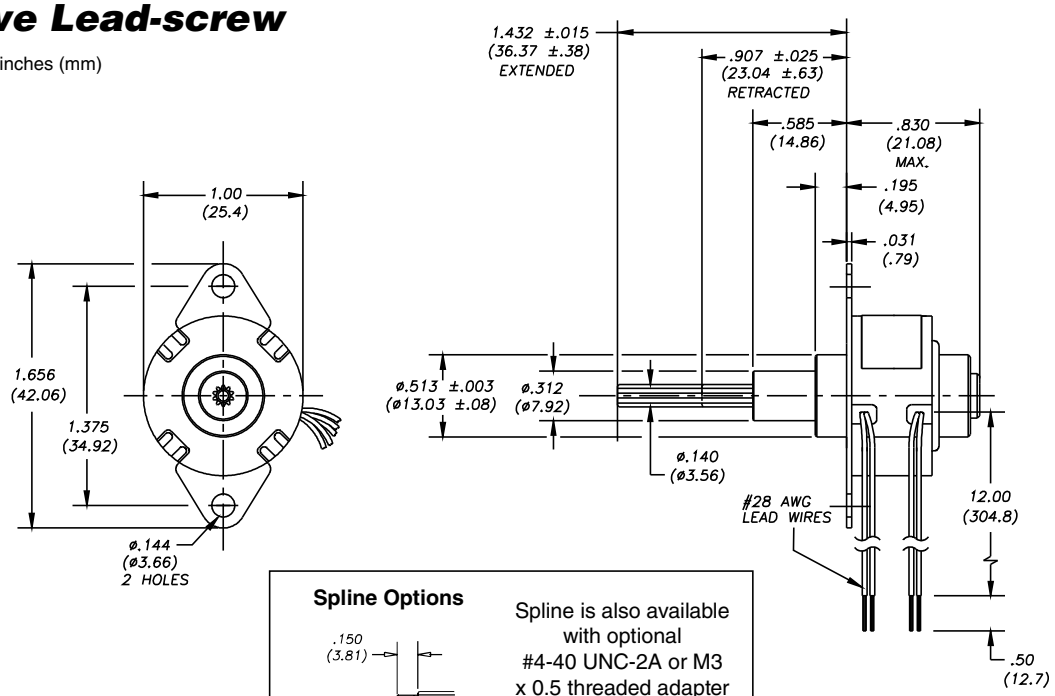
Special drive considerations may be necessary when leaving shaft fully extended or fully retracted.

Standard motors are Class B rated for maximum temperature of 130° C (266° F).

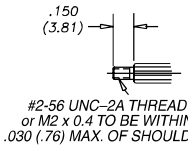
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Captive Lead-screw

Dimensions = inches (mm)



Spline Options

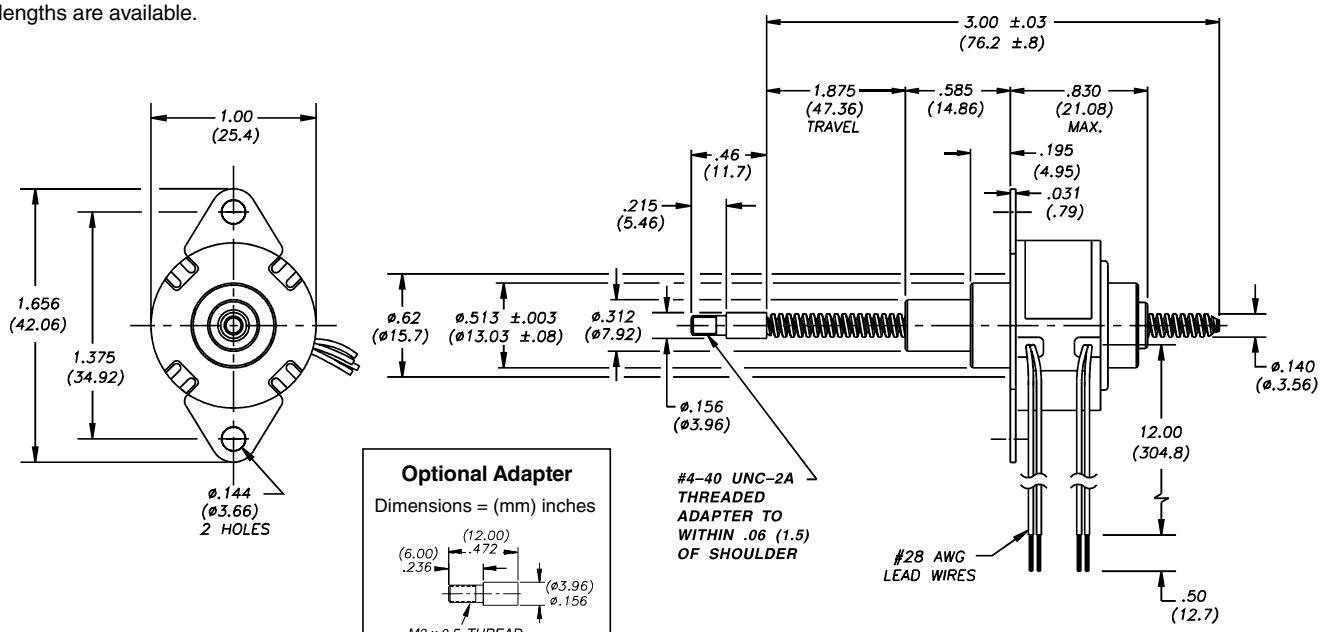


Spline is also available with optional #4-40 UNC-2A or M3 x 0.5 threaded adapter as shown in non-captive drawing.

Non-Captive Lead-screw

Dimensions = inches (mm)

Up to 6-in (152 mm) standard screw lengths. Longer screw lengths are available.



Optional Adapter

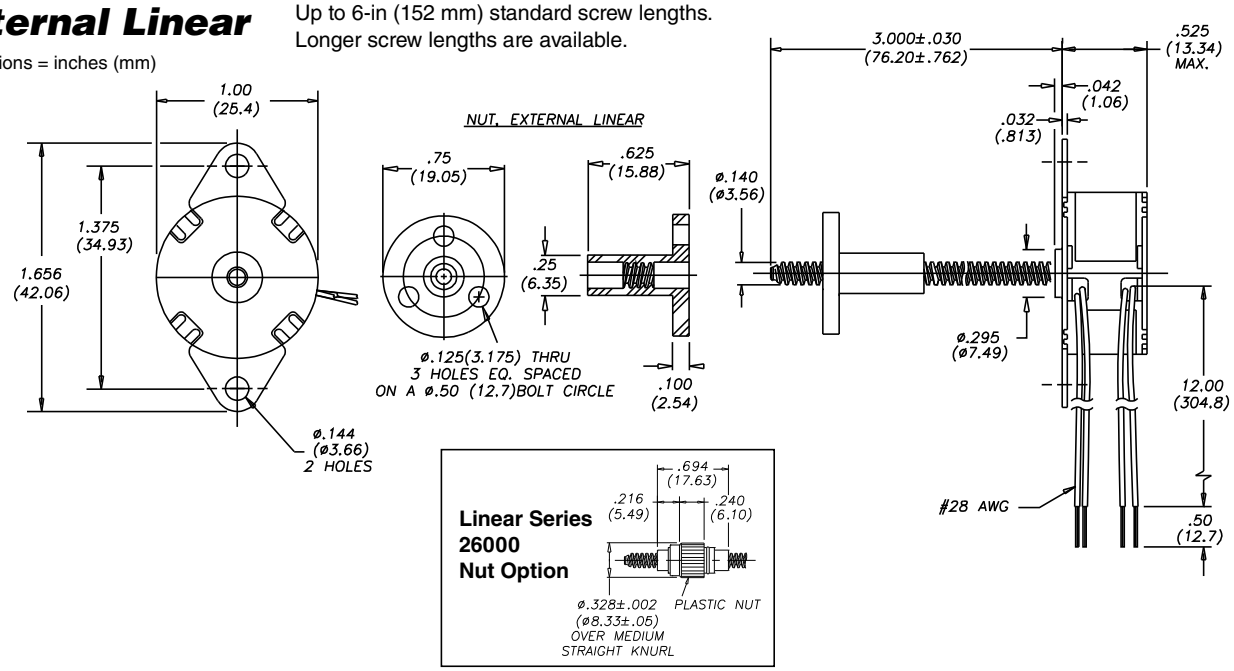
Dimensions = (mm) inches

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

External Linear

Up to 6-in (152 mm) standard screw lengths.
Longer screw lengths are available.

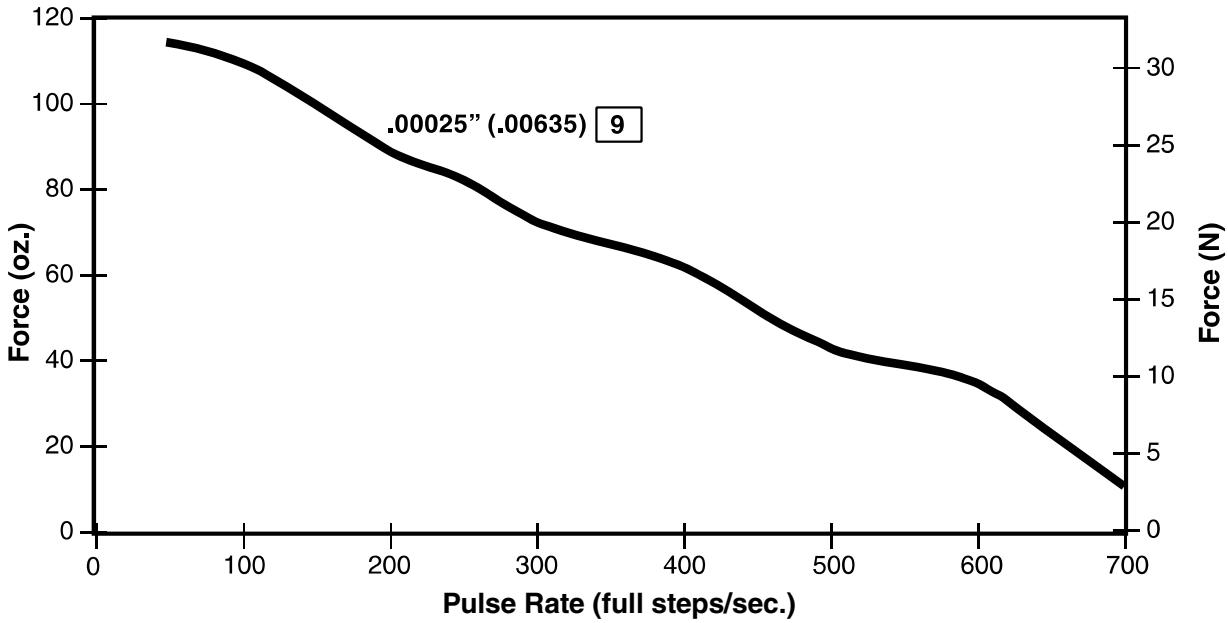
Dimensions = inches (mm)



26000 Series: Can-Stack High Resolution Performance Curve

FORCE vs. PULSE RATE

L/R Drive • Bipolar • 100% Duty Cycle



NOTE: Ramping can increase the performance of a motor either by increasing the top speed or getting a heavier load accelerated up to speed faster. Also, deceleration can be used to stop the motor without overshoot.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

The 36000 Series Can-Stack is available with a high temperature option.

Salient Characteristics

Ø 36 mm (1.4-in) motor					
Wiring		Bipolar			
Part No.	Captive	3644X-V		3654X-V	
	Non-captive	3634X-V		3684X-V	
	External	E3644X-V		E3654X-V	
Step angle		7.5°		15°	
Winding voltage		5 VDC	12 VDC	5 VDC	12 VDC
Current (RMS)/phase		460 mA	190 mA	460 mA	190 mA
Resistance/phase		11 Ω	63 Ω	11 Ω	63 Ω
Inductance/phase		7.2 mH	45 mH	5.5 mH	35 mH
Power consumption		4.6 W			
Rotor inertia		10.5 gcm^2			
Insulation Class		Class B			
Weight		3 oz (86 g)			
Insulation resistance		20 MΩ			

Ø 36 mm (1.4-in) motor					
Wiring		Unipolar*			
Part No.	Captive	3646X-V		3656X-V	
	Non-captive	3636X-V		3686X-V	
	External	E3646X-V		E3656X-V	
Step angle		7.5°		15°	
Winding voltage		5 VDC	12 VDC	5 VDC	12 VDC
Current (RMS)/phase		460 mA	190 mA	460 mA	190 mA
Resistance/phase		11 Ω	63 Ω	11 Ω	63 Ω
Inductance/phase		3.8 mH	19 mH	3 mH	15 mH
Power consumption		4.6 W			
Rotor inertia		10.5 gcm^2			
Insulation Class		Class B			
Weight		3 oz (86 g)			
Insulation resistance		20 MΩ			

* Unipolar drive gives approximately 30% less thrust vs. bipolar drive.



Other styles available...

- High Resolution Series
- TFE lead-screw
- High Temperature Option

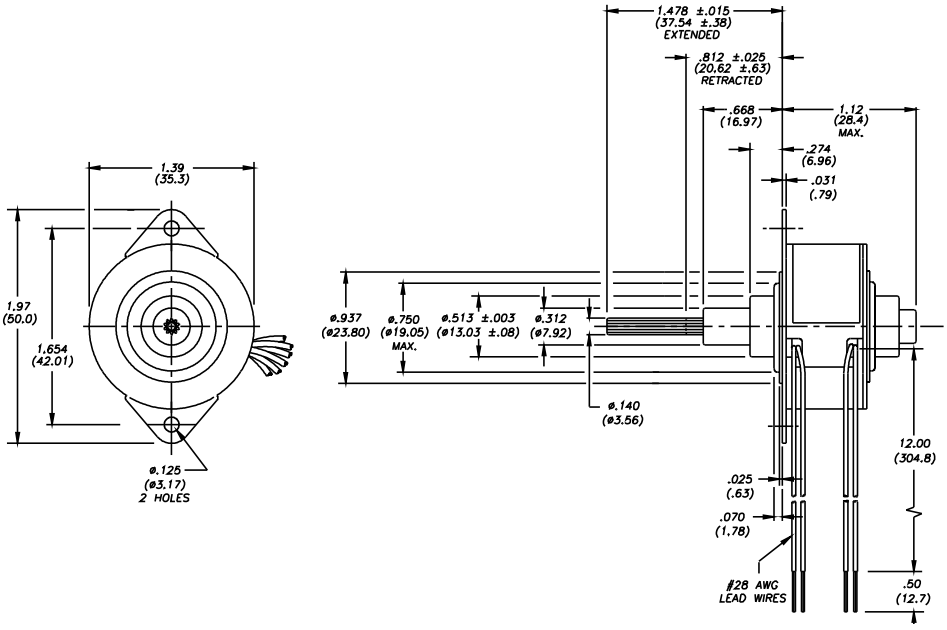
Linear Travel/Step			Order Code I.D.
Step	inches	mm	
7.5° Angle	0.0005	0.013	3
	0.001	0.0254	1
	0.002	0.051	2
15° Angle	0.002	0.051	2
	0.004	0.102	4

Standard motors are Class B rated for maximum temperature of 130° C (266° F).

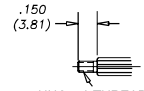
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Captive Lead-screw

Dimensions = inches (mm)



Spline Options



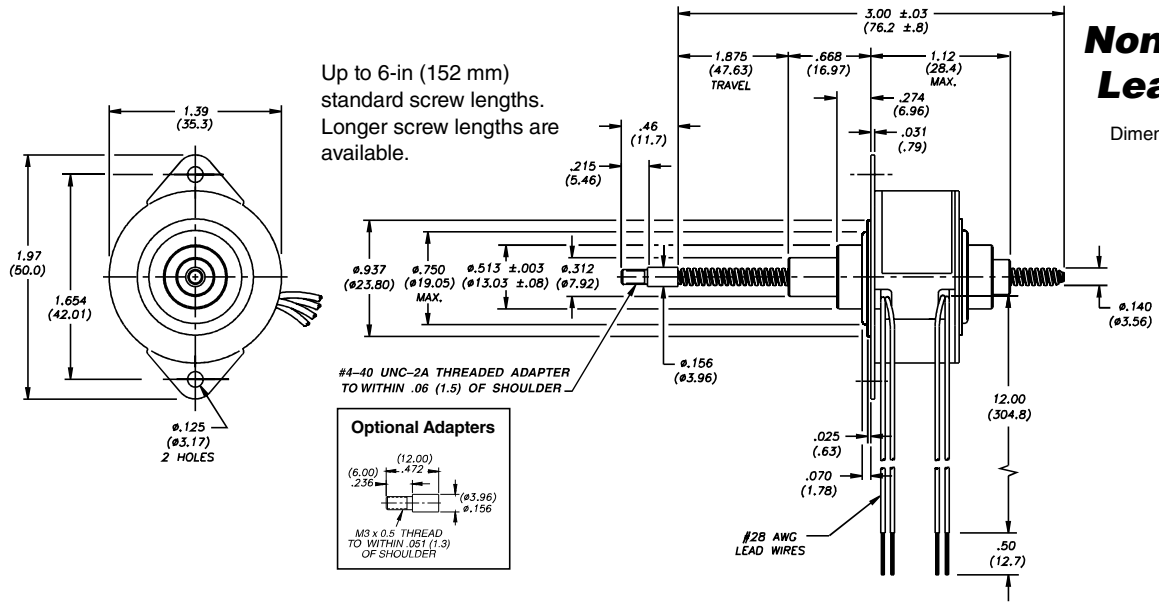
#2-56 UNC–2A THREAD
or M2 x 0.4 TO BE WITHIN
.030 (.76) MAX. OF SHOULDER

Spline is also available with optional #4-40 UNC-2A or M3 x 0.5 threaded adapter as shown in non-captive drawing.

Non-Captive Lead-screw

Dimensions = inches (mm)

Up to 6-in (152 mm) standard screw lengths. Longer screw lengths are available.

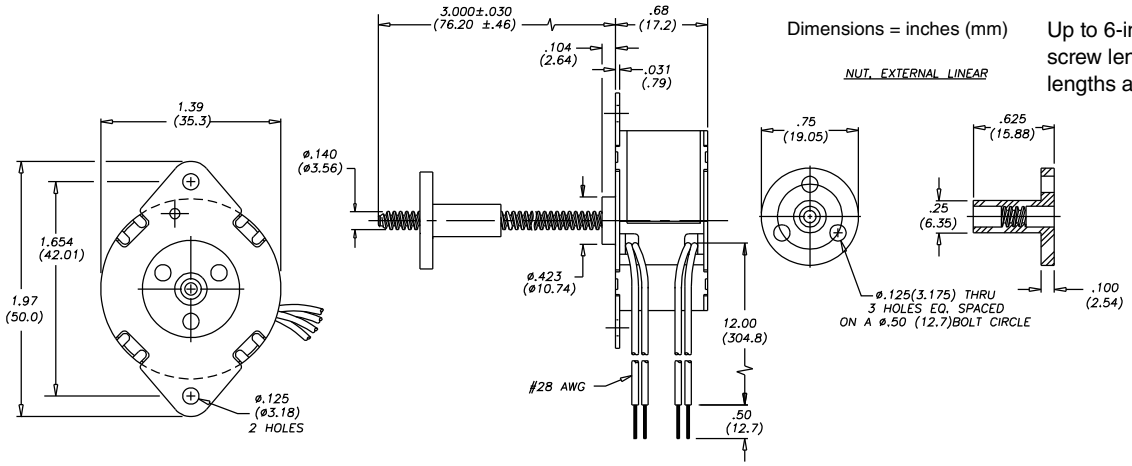


Optional Adapters

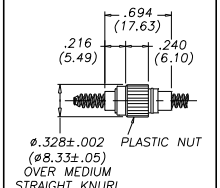
External Linear

Dimensions = inches (mm)

Up to 6-in (152 mm) standard screw lengths. Longer screw lengths are available.



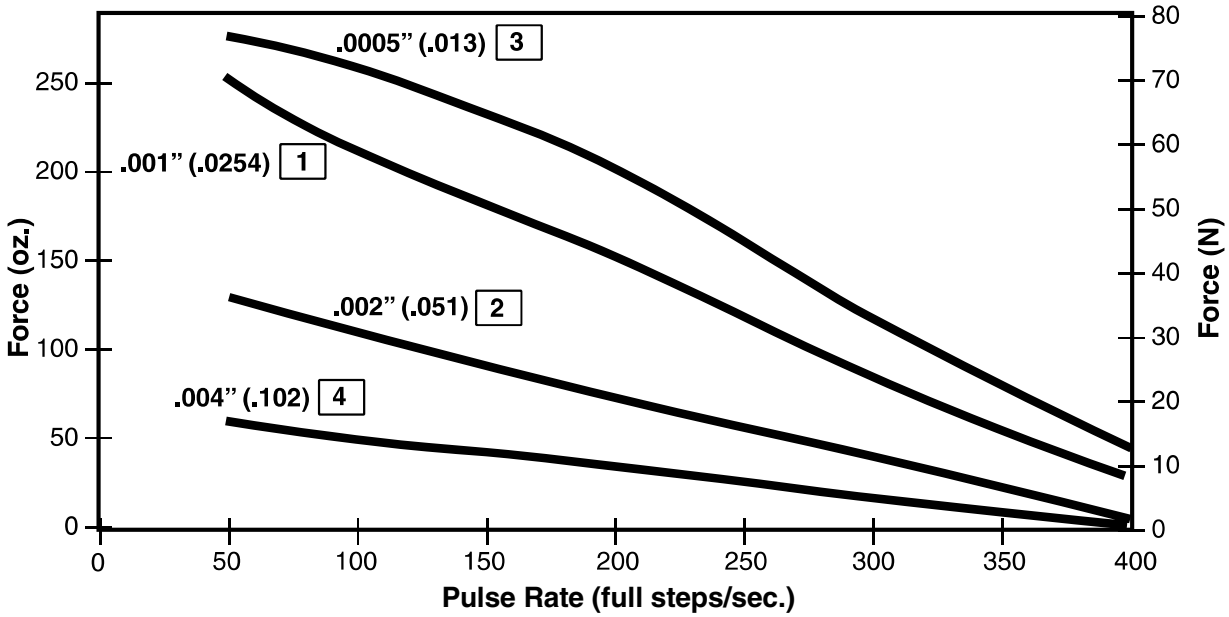
Linear Series 36000 Nut Option



Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

FORCE vs. PULSE RATE

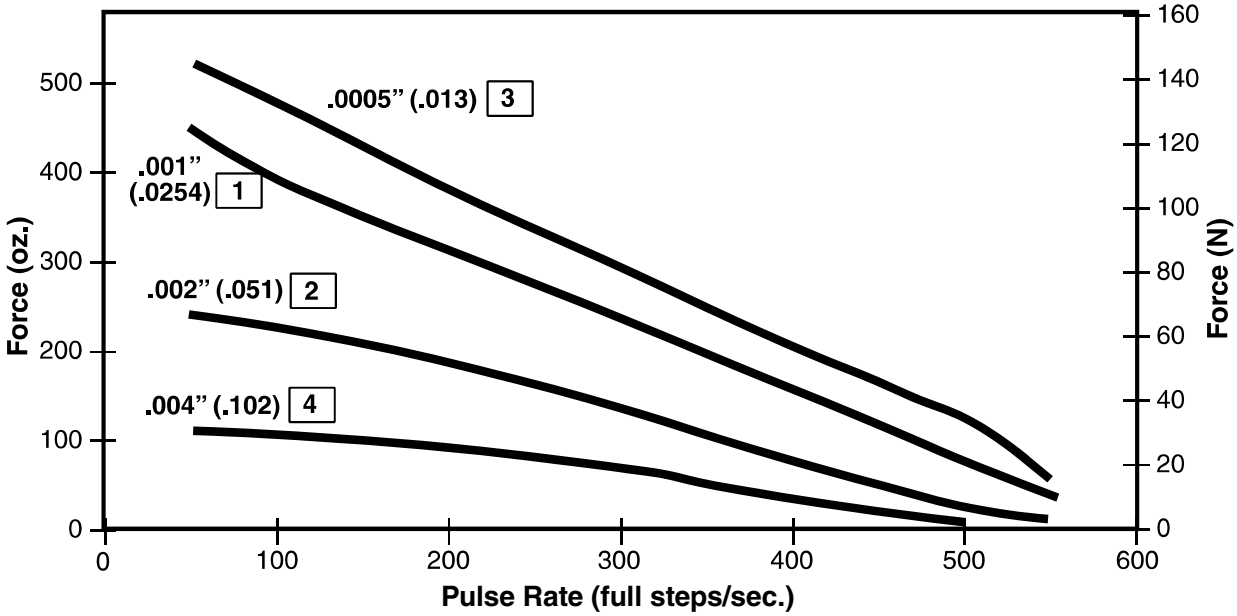
L/R Drive • Bipolar • 100% Duty Cycle



FORCE vs. PULSE RATE

L/R Drive • Bipolar • 25% Duty Cycle

25% duty cycle is obtained by a special winding or by running a standard motor at double the rated voltage.



NOTE: Ramping can increase the performance of a motor either by increasing the top speed or getting a heavier load accelerated up to speed faster. Also, deceleration can be used to stop the motor without overshoot.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP