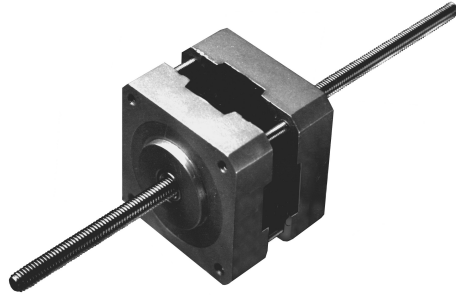


SIZE
17
1.57"
SQ

Linear Actuator

Conventional



EADmotors Size 17 linear actuators are based on the 1.8° hybrid stepping motor. Size 17 linear actuators are bi-directional devices and are totally enclosed with permanently lubricated ball bearings.

The internal rotating nut is made of SAE 660 bearing bronze and the actuating lead screw is made of cold rolled steel.

Leadscrew lubrication is required for maximum life. Lubricants containing molybdenum disulfide are recommended. The lubricant used in tests conducted to develop these force speed curves is available in two tube sizes:

¼ oz. Leadscrew Lube
P/N 12210105

¾ oz. Leadscrew Lube
P/N 12210106

Note: Anti-backlash nuts can be made available.

Part Number Description

ZB17GBK _ _ _

Thread Description
(N, R, or P)

Leadscrew Length
(1-inch increments)

Winding Number

Electrical Ratings

Model Number	Number of Leads	Unipolar Connection				Bipolar Connection				Rotor Inertia (oz-in-sec ²)	Weight (ounces)
		Phase Voltage (VDC)	Phase Current (amps)	Phase Resistance (ohms)	Phase Inductance (mH)	Phase Voltage (VDC)	Phase Current (amps)	Phase Resistance (ohms)	Phase Inductance (mH)		
ZB17GBK_-10-_	6	4.00	0.95	4.20	2.9	5.60	0.67	8.40	11.6	0.00024	7.0
ZB17GBK_-11-_	6	6.00	0.63	9.60	4.9	8.50	0.45	19.20	19.6		
ZB17GBK_-12-_	6	12.00	0.32	38.40	22	17.00	0.23	76.80	88.0		
ZB17GBK_-200-_	4					1.90	2.00	0.95	1.4		

Leadscrew Specifications

Letter Designation	Thread Description	Thread Lead (inches)	Linear Travel per 1.8° Step (inches)	Maximum Linear Force (pounds)	
				Unipolar Connection	Bipolar Connection
N	#10-32UNF	0.03215	0.00015625	21	35
R	#10-32UN(2)*	0.0625	0.0003125	20	32
P	#10-32UN(4)*	0.1250	0.000625	16	27

* Number of starts to the leadscrew: (2) = 2 starts, (4) = 4 starts, etc.

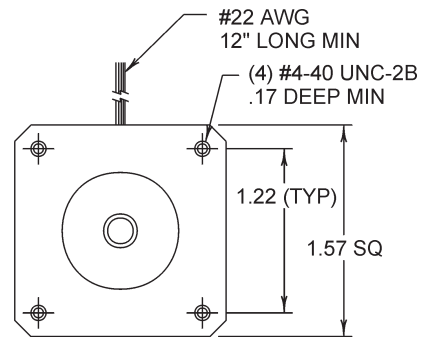
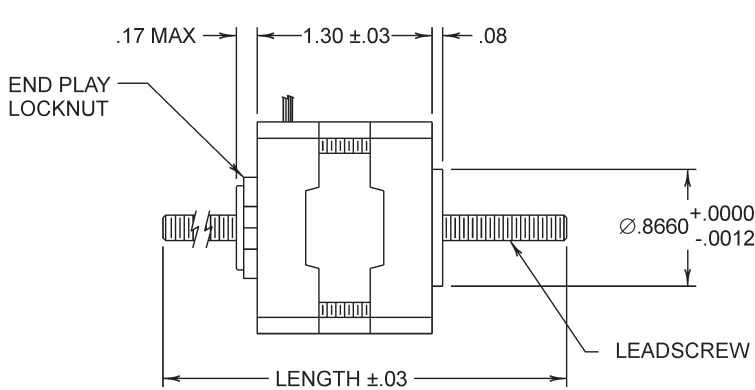
Solutions in motion



Linear Actuator

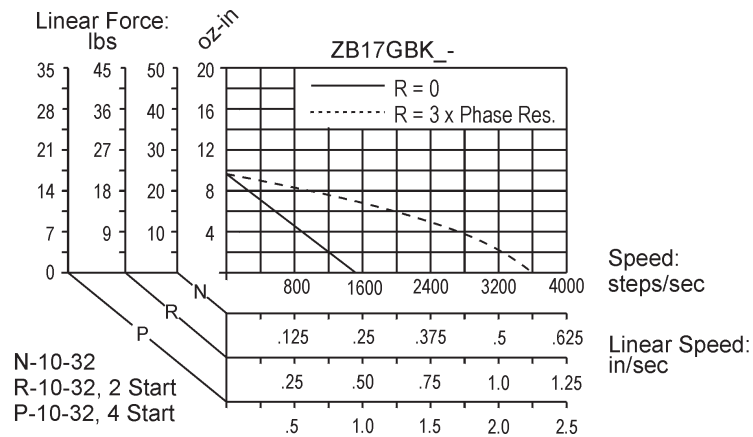
Conventional

SIZE
17
1.57"
SQ

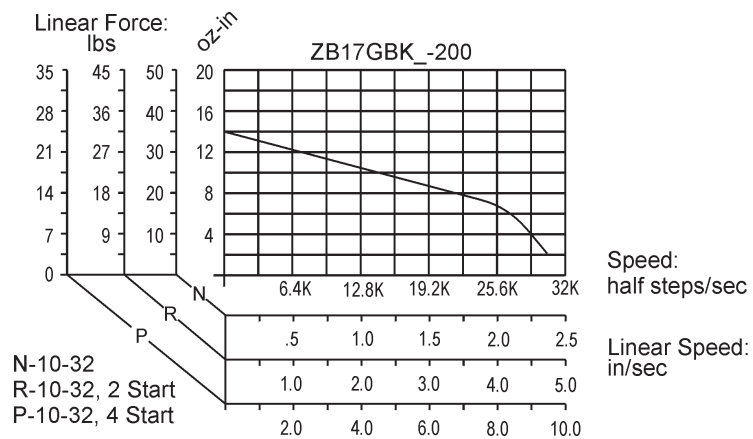


See page 38 for Connection Diagrams.

Typical Unipolar Performance (6 Lead Motor): Constant Voltage Drive (L/R), 2 Phase On



Typical Bipolar Performance: 40 VDC Power Supply, 2 Amps/Phase



Solutions in motion

