



Progressive PA-10 Waterproof Linear Actuator User Manual

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Progressive PA-10 Waterproof Linear Actuator



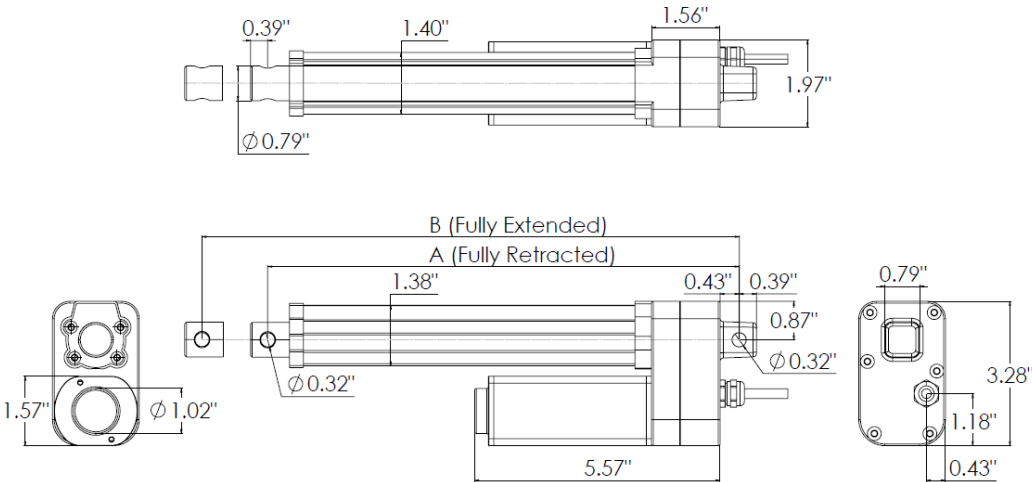
Specifications

Dynamic	Static	12VDC	24VDC	12VDC	24VDC	No Load	Full Load
450	450	≤1.5	–	≤6.0	–	0.28	0.16
225	225	–	≤1.5	–	≤3.2	0.74	0.57
450	450	–	≤1.5	–	≤4.0	0.56	0.33
675	675	–	≤1.5	–	≤4.2	0.31	0.22

Input Voltage	12VDC or 24VDC
Stroke	1.0" to 36.0"
Features	400-hour Salt Spray Rating (Salt Spray Rating Unit Only)
Feedback	Optional
Duty Cycle	20%
Weather Protection	IP68M, IP69K Static
Overload Protection	None
Operational Temperature	-20°C to 70°C
Operating Noise	<45 dBA
Limit Switch	Built-In (Non-Adjustable)
Cable Length	60"
Connector	Molex Mini-Fit Jr 2-Pin
Front Mounting Hole Size	0.32"
Rear Mounting Hole Size	0.32"
Actuator Type	Mini, Industrial
Motor Type	Brushed DC Motor
Screw Type	ACME
Stroke Rod Material	Stainless Steel
Housing Material	Anodic Oxidation (Standard), Porcelain Plating (Salt Spray Rating)
Gear Material	Polyoxymethylene
Certifications	UL
Compatible Mounting Brackets	BRK-09
Warranty	18 Months

Dimensions

(Dimensions in inches)



PA-10	Stroke	1	2	4	6	8	10	12	14	16	20	22	24	30	36
	A	6.7	6.7	8.7	10.7	12.7	14.7	16.7	18.7	20.7	25.1	27.1	29.9	35.9	41.9
	B	8.7	8.7	12.7	16.7	20.7	24.7	28.7	32.7	36.7	45.1	49.1	53.9	65.9	77.9

For stroke length less than 2.0"

1. $A = 6.7"$
2. $B = \text{Stroke} + 6.7"$

For stroke length 2.0" to 16"

1. $A = \text{Stroke} + 4.7"$
2. $B = \text{Stroke} + \text{Stroke} + 4.7"$

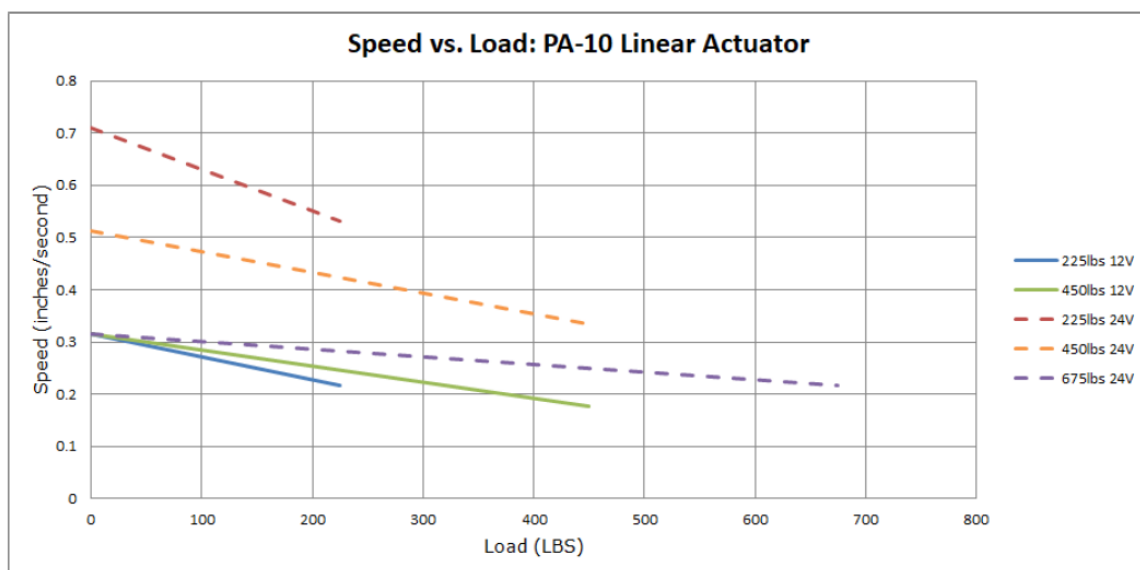
For stroke length greater than 16" and less than 23.5"

1. $A = \text{Stroke} + 5.1"$
2. $B = \text{Stroke} + 5.1"$

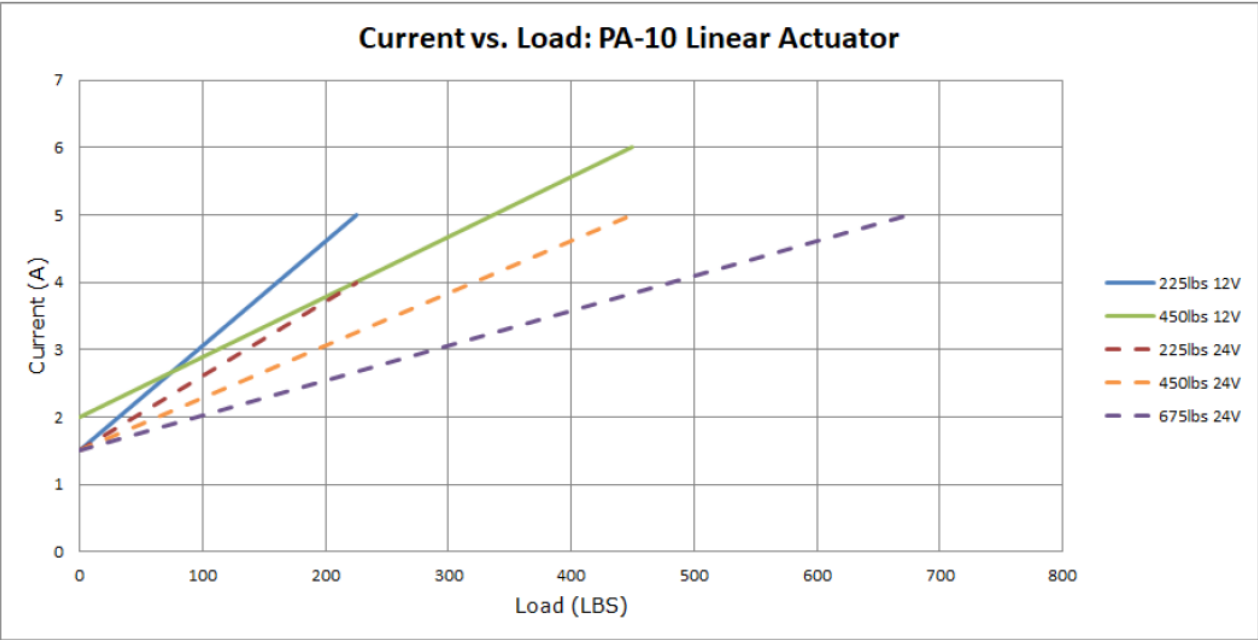
For Stroke Length 23.5" to 36.0"

1. $A = \text{Stroke} + 5.9"$
2. $B = \text{Stroke} + \text{Stroke} + 5.9"$

Speed vs Load



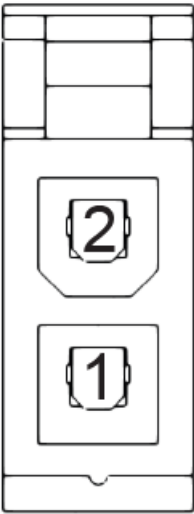
Current vs Load



Connectors & Feedback

2-Pin Connector (Standard)

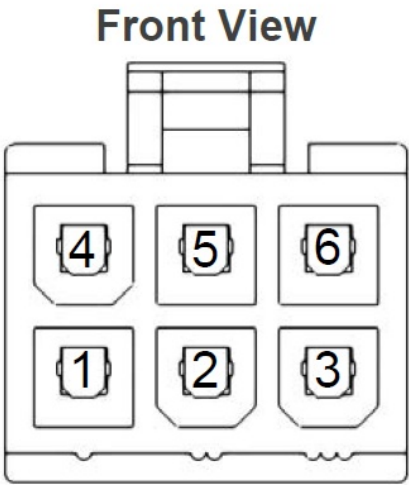
Front View



Motor	
1	2
M-	M+

Component	Part Name	Part Number	Mating Part Number
Housing	Mini-Fit Jr. Receptacle Housing, Dual Row, 6 Circuits, UL 94V-2, Natural	39-01-2020	39-01-3023
Pin 1 & 2	Molex Mini-Fit Junior Female Terminal, Tin-plated brass over copper, 18-24 AWG	39-00-0038	39-00-0040

6-Pin Hall Effect Connector



Motor		Hall Sensor			
1	2	3	4	5	6
Hall Effect Signal 1	GND	+5VDC	M- (Retract)	M+ (Extend)	Hall Effect Signal 2

Component	Part Name	Part Number	Mating Part Number
Housing	Mini-Fit Jr. Receptacle Housing, Dual Row, 6 Circuits, UL 94V-2, Natural	39-01-2060	39-01-3063
Pin 1 – 6	Molex Mini-Fit Junior Female Terminal, Tin-plated brass over copper, 18-24 AWG	39-00-0038	39-00-0040

Output Signal Extending	Output Signal Retracting
Hall Effect 1 Signal Hall Effect 2 Signal	Hall Effect 1 Signal Hall Effect 2 Signal

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