

A-SERIES HEAVY DUTY ACME SCREW ACTUATORS

OUR MOST POWERFUL ACTUATORS HANDLING LOADS UP TO 3000 LBS.

A-Series Actuators are Burr Engineering's most powerful systems for demanding applications. This line provides dynamic capacities to 3000 pounds with static loading to 5000 pounds and is designed with either round 2.25" tubing or square 2.5" tubing. Gear ratios of 34:1 and 110:1 may be combined with acme screw posts.

Features:

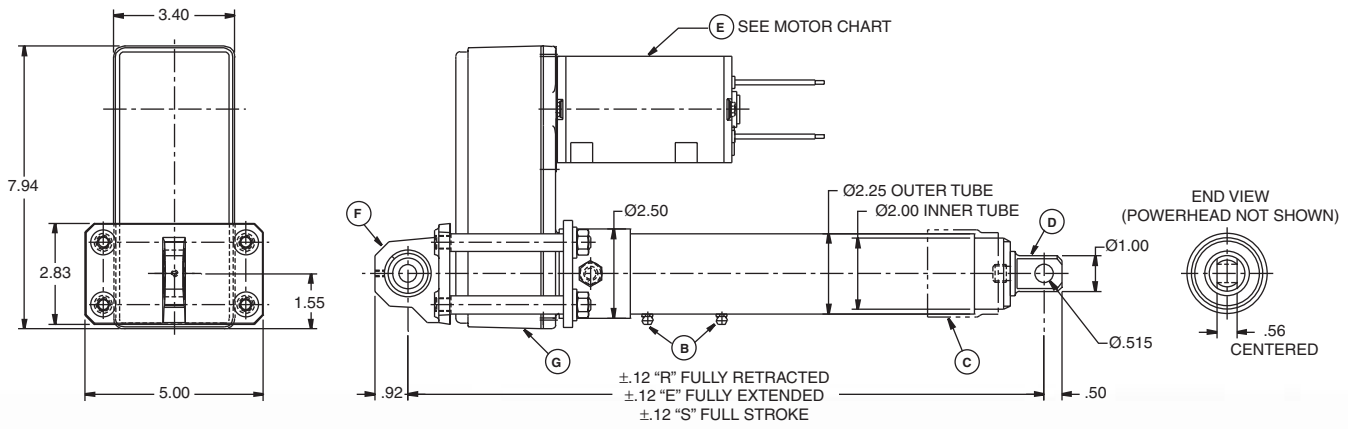
- 12, 24 or 36 Volt DC
- 110 or 220 Volt AC
- Standard Stroke Lengths to 18"
- Longer Stroke Lengths Available
- Die-Cast Aluminum Powerheads
- Factory-set Torque Limiter
- .75-6 Acme Screw
- Zinc-plated Inner and Outer Tubes
- Capacities to 3000 lbs.
- Static Load 5000 lbs.
- 34:1 and 110:1 Gear Ratios

A-Series



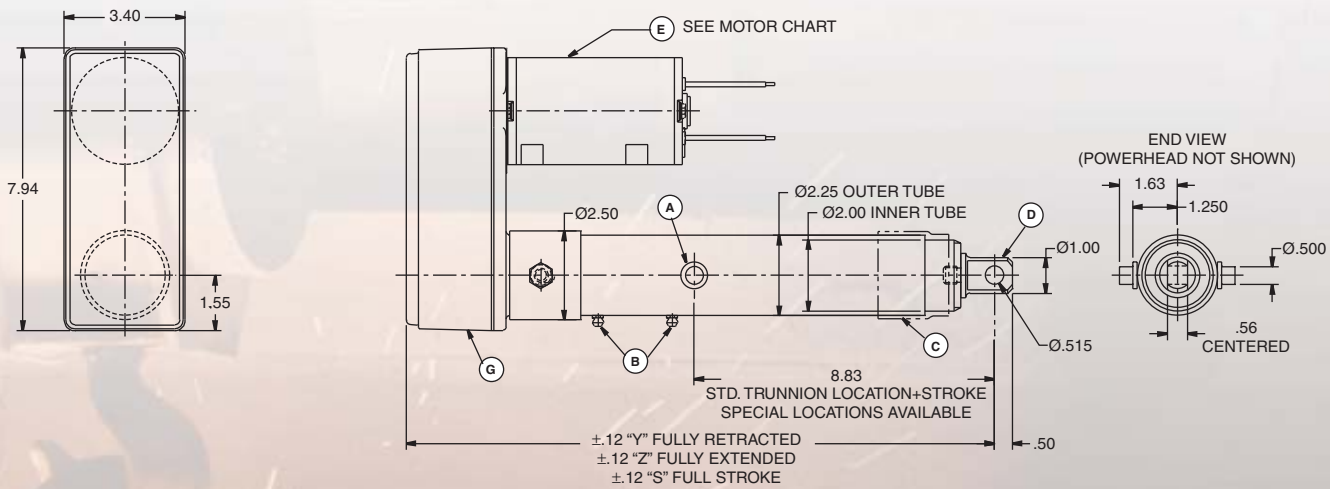
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- (A) P/N 17950 TRUNNION (SET OF 2)*
 - (B) P/N 16426 GREASE FITTINGS*
 - (C) P/N 15501 WEATHER SEAL*
 - (D) P/N 16418 CLEVIS SHORT*
 - (E) MOTOR – SEE CHART*
 - (F) P/N 29444 OVER THE HEAD IN-LINE BRACKET*
 - (G) POWERHEAD – SEE CHART
- * Optional

NOTE: Custom ball screw actuators available by special order. Call for detailed information.



Temperature Range: 90°C, 194°F Maximum to -35°C, -30°F Minimum

POST ASSEMBLIES

Post Ass'y	Type	Stroke "S"	Retracted "R"	Extended "E"	Retracted "Y"	Extended "Z"
17965	.75-6 Acme Screw Powder Metal	4.12	17.69	21.81	16.38	20.50
29413	.75-6 Acme Screw Powder Metal	6.12	19.69	25.81	18.38	24.50
17966	.75-6 Acme Screw Powder Metal	8.12	21.69	29.81	20.38	28.50
17967	.75-6 Acme Screw Powder Metal	12.12	25.69	37.81	24.38	36.50
17968	.75-6 Acme Screw Powder Metal	18.12	31.69	49.81	30.38	48.50
29414	.75-6 Acme Screw Powder Metal	24.12	37.69	61.81	36.38	60.50
29415	.75-6 Acme Screw Powder Metal	36.12	49.69	85.81	48.38	84.50

Note: 1"-5 screws and compatible bronze nuts available on special order basis.



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SPEED vs. LOAD (Inches/Second)

LOAD LBS.	34:1	110:1
3000	N/A	.10
2500	N/A	.11
2000	N/A	.12
1500	.26	.12
1000	.32	.13
750	.31	.13
500	.33	.14
MOTOR	19697	19697

Note: Speed listed is for acme screw actuators equipped with powdered steel nuts. For a bronze nut use a multiplier of 1.2 to compute speed. For a delrin nut use a multiplier of 1.35 to compute speed.

AMPERAGE DRAW (Shown at 12 Volts DC)

LOAD LBS.	34:1	110:1
3000	N/A	27-28
2500	N/A	24-25
2000	N/A	19-20
1500	35-37	17-18
1000	27-28	13-14
750	24-25	11-12
500	20-22	9-10
MOTOR	19697	19697

Note: Amperage listed is for acme screw actuators equipped with powdered steel nuts. For a bronze nut use a multiplier of .7 to compute amperage. For a delrin nut use a multiplier of .6 to compute amperage.

MOTOR CHART [Ⓔ]

Part No.	Voltage	Diameter (inches)	No Load RPM	Max. Load Torque (in.oz.)
16263	12 VDC	2.50	6800	70
19697	12 VDC	3.00	5800	80
23959	24 VDC	2.50	3800	80
21117	24 VDC	3.00	6000	75
14090	36 VDC	2.50	6800	40
25568	110 VAC	3.38	3400	36
25566	220 VAC	3.38	3400	36
26161	12 VDC	3.00	5000	80

POWERHEAD LESS MOTOR [Ⓖ]

Part No.	Gear Ratio
27854	34:1
28529	110:1



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