

NEW!

UNIVERSAL ACTUATOR UA™

- **Designed with Industry Standard T-Slot**
- **Force to 500 Lbf**
- **Velocity to 50 in/sec**
- **Sealed from Contamination (IP54)**
- **Adjustable Limit Switches Available**
- **Piston with Internal Anti-Rotation**
- **Ideal for a Variety of Industries & Applications Including Industrial Automation, Robotics, Packaging, Food & Beverage, and many more!**



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Specifications

UA Size	Screw Code	Rated Thrust (lb)	Max. Velocity (in/s)	Max. Stroke (in)	Frame Size (in)	Screw Lead (in)	Backlash Max. (in)	Max. Screw Speed (RPM)	Max. Torque At Screw (in-lb)	Dynamic Capacity Per Million Revs (lbf)	Dynamic Capacity Per Million Inches (lbf)	Max. Motor Or Gearhead Pilot Supported (in)	Inertia 1:1 Zero Stroke (lb-in ²)	Inertia 1:1 Per Inch Of Stroke (lb-in ²)	Inertia 2:1 Zero Stroke (lb-in ²)	Inertia 2:1 Per Inch Of Stroke (lb-in ²)	Inertia Inline Zero Stroke (lb-in ²)	Inertia Inline Per Inch Of Stroke (lb-in ²)	Weight Mount "U" Zero Stroke (lb)	Weight "L" Mount Zero Stroke (lb)	Weight Per Inch Of Stroke (lb)
UA2	AB2	500	50	24	2	0.5	0.010	6,000	44	1,002	738	3.74	0.40	0.0016	0.21	0.0004	0.13	0.0016	5.75	5.5	0.5
UA2	AB5	500	16	24	2	0.2	0.010	4,800	18	1,221	714	3.74	0.41	0.0031	0.21	0.0008	0.13	0.0031	5.75	5.5	0.5

EDRIVE[™]
ACTUATORS

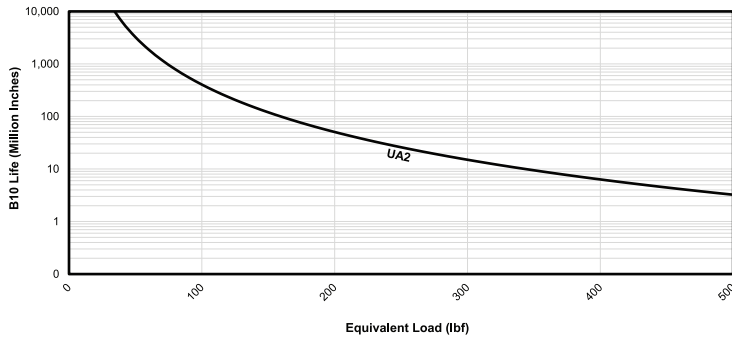
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Precision Experience In Motion™

UNIVERSAL ACTUATOR UA™

Graph 1: Life Vs. Load



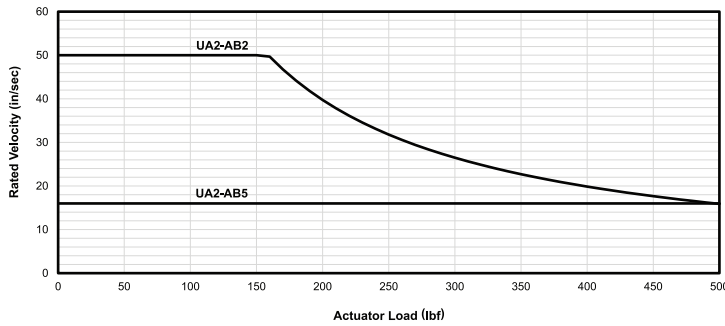
EQUIVALENT LOAD is the average force over the working stroke, weighted proportionately to the distance traveled. For constant force loads, the equivalent load is the same as the typical or average load. Where forces vary due to gravity, angle of actuator, acceleration and deceleration, friction, and changing dynamic loads at different positions, it is best to determine the equivalent load in order to most accurately predict the B10 life of the actuator.

$$F = \frac{\sqrt[3]{L_1(F_1)^3 + L_2(F_2)^3 + L_3(F_3)^3 + L_4(F_4)^3 + \dots + L_n(F_n)^3}}{L}$$

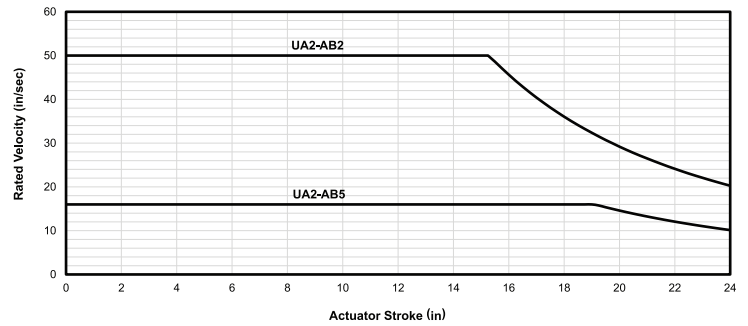
Where: F_n is the calculated force for segment "n" with travel length of L_n and total travel L .

Find the intersection of this value and the appropriate curve. The value on the scale to the left reflects the B10 life of the actuator.

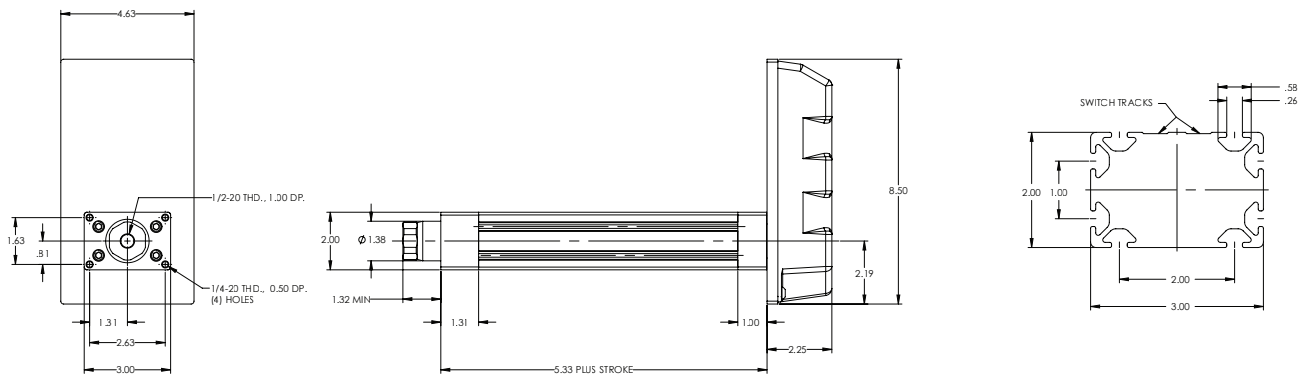
Graph 2: Force Vs. Speed



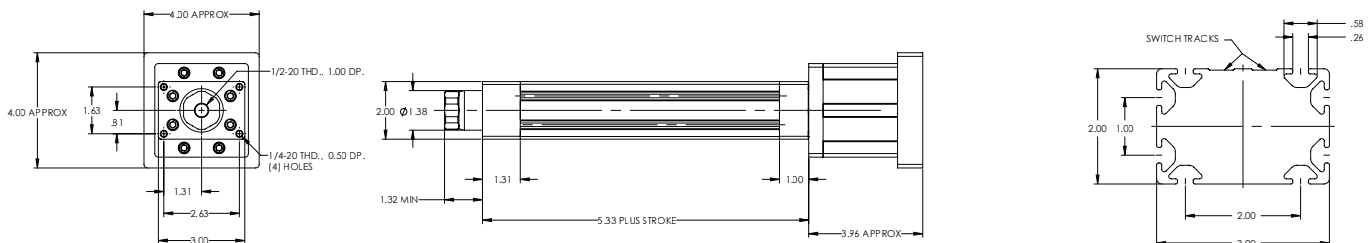
Graph 3: Speed Vs. Stroke



Parallel Offset Configuration



Inline Configuration



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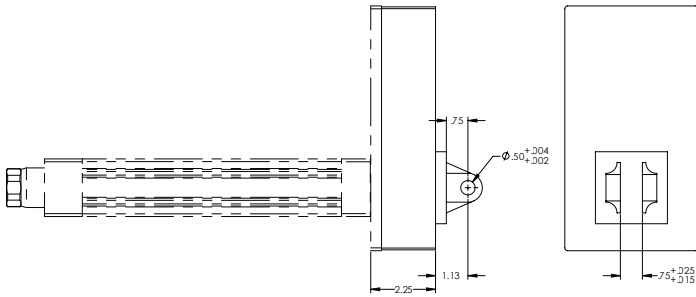
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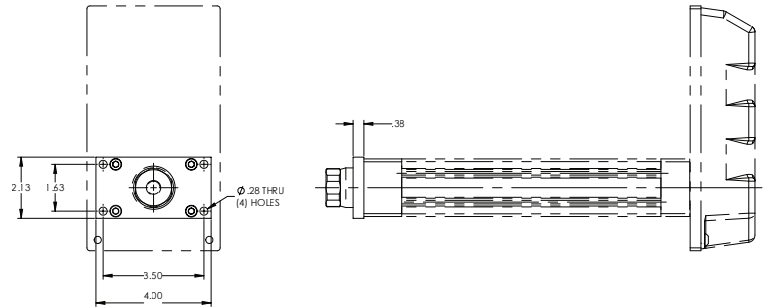
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UA Mounting Accessories

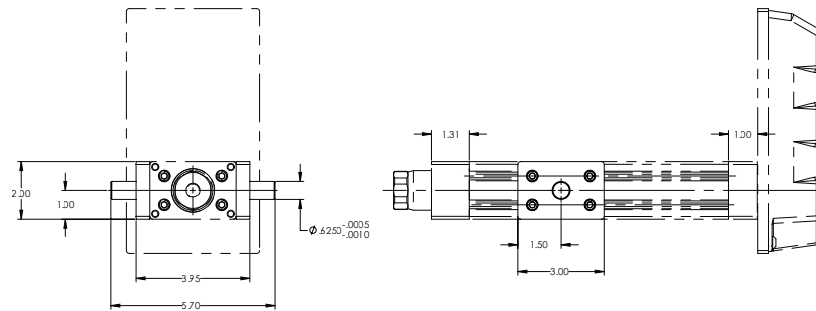
Rear Clevis



Front Flange

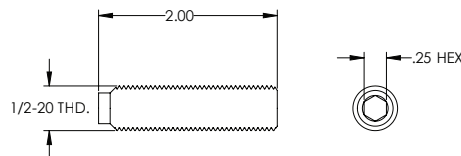


Trunnion Brackets

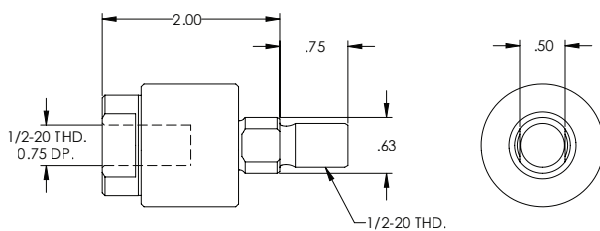


Rod End Accessories

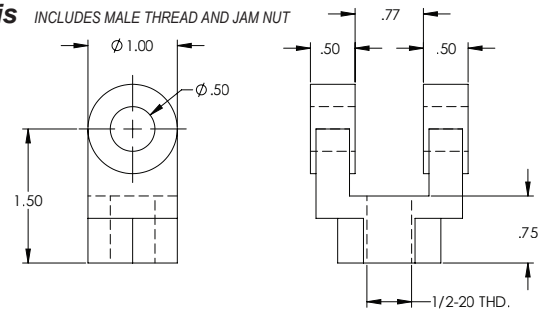
Male Thread



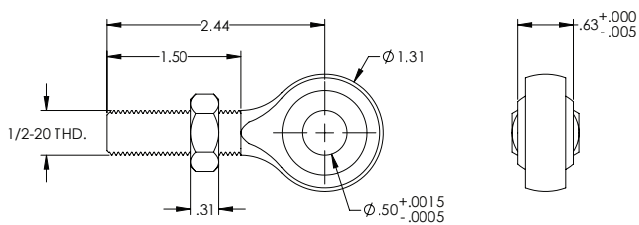
Self-Aligning Coupler INCLUDES MALE THREAD



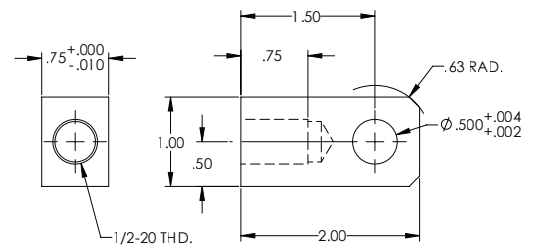
Rod Clevis INCLUDES MALE THREAD AND JAM NUT



Spherical Rod Eye



Female Eye INCLUDES MALE THREAD AND JAM NUT



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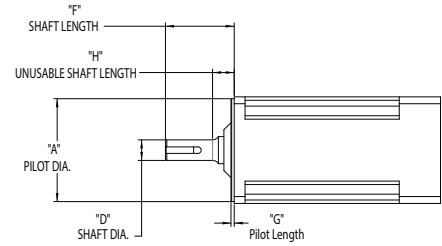
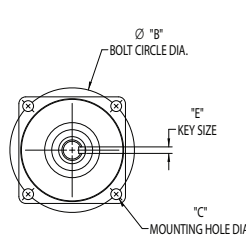
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PRODUCT ORDERING GUIDE

NEW! Universal Actuator UA



UA Size
UA2

Stroke
06 inch
12 inch
18 inch
24 inch

Motor Code
See Motor Codes Below

Motor Configuration
P1 Offset Parrallel 1:1
P2 Offset Parrallel 2:1
L0 Inline Direct Coupled

Screw Code	Dia.	Lead	Type	Lead Accuracy
AB2	1/2"	0.5"	Ball Screw	0.003 in/ft
AB5	5/8"	0.2"	Ball Screw	0.003 in/ft

MOTOR CODES

Motor Code	"A" Pilot Diameter	"B" Bolt Circle Diameter	"C" Mounting Hole Diameter		"D" Shaft Diameter (1)	"E" Key Size	"F" Shaft Length		"G" Pilot Length Max	"H" Unusable Shaft Length Max
			Min	Max			Min	Max		
GDH	1.500 in	2.625 in	0.169 in	0.228 in	1/4 in	N/A	0.781 in	0.844 in	0.20 in	0.25 in
PTD	1.500 in	2.625 in	0.169 in	0.228 in	1/2 in	1/8 in	1.25 in	1.625 in	0.20 in	0.25 in
DBC	2.875 in	3.875 in	0.209 in	0.248 in	1/2 in	1/8 in	1.188 in	1.575 in	0.20 in	0.375 in
PBD	2.875 in	3.875 in	0.209 in	0.248 in	1/2 in	5 mm	1.188 in	1.575 in	0.20 in	0.375 in
DCB	2.875 in	3.875 in	0.209 in	0.248 in	14 mm	1/8 in	1.188 in	1.575 in	0.20 in	0.375 in
AGP	2.875 in	3.875 in	0.209 in	0.248 in	5/8 in	3/16 in	1.188 in	1.575 in	0.20 in	0.375 in
MPC	40 mm	63 mm	5.3 mm	6.3 mm	9 mm	3 mm	19 mm	31 mm	4 mm	4 mm
HCM	40 mm	63 mm	4.3 mm	5.3 mm	9 mm	3 mm	19 mm	31 mm	4 mm	4 mm
AMH	50 mm	70 mm	4.3 mm	6.0 mm	11 mm	4 mm	25 mm	31 mm	5 mm	5 mm
PCA	50 mm	70 mm	4.3 mm	6.0 mm	12 mm	4 mm	25 mm	31 mm	5 mm	5 mm
MCB	50 mm	70 mm	4.3 mm	6.0 mm	14 mm	5 mm	25 mm	31 mm	5 mm	5 mm
CMD	50 mm	70 mm	4.3 mm	6.0 mm	16 mm	5 mm	35 mm	41 mm	5 mm	5 mm
BDG	50 mm	95 mm	6.3 mm	7.3 mm	14 mm	5 mm	35 mm	41 mm	5 mm	5 mm
AHB	60 mm	75 mm	5.3 mm	6.5 mm	11 mm	4 mm	22 mm	31 mm	4 mm	4 mm
MBG	60 mm	75 mm	5.3 mm	6.5 mm	14 mm	5 mm	22 mm	31 mm	4 mm	4 mm
CGM	80 mm	100 mm	6.3 mm	7.3 mm	16 mm	5 mm	35 mm	41 mm	9 mm	15 mm
PBT	80 mm	100 mm	6.3 mm	7.3 mm	14 mm	5 mm	30 mm	37 mm	9 mm	15 mm
TMD	80 mm	100 mm	6.3 mm	7.3 mm	19 mm	6 mm	40 mm	46 mm	9 mm	15 mm
PGH	80 mm	100 mm	6.3 mm	7.3 mm	22 mm	6 mm	42 mm	48 mm	9 mm	15 mm
HGM	95 mm	115 mm	8.3 mm	10.3 mm	19 mm	6 mm	35 mm	41 mm	9 mm	15 mm
PTB	95 mm	115 mm	8.3 mm	10.3 mm	19 mm	6 mm	52 mm	58 mm	9 mm	15 mm

(1) Max. Shaft for 2:1 us 16mm (.63 in)

ACCESSORIES

Part Number	Description	Part Number	Description	Part Number	Description
D06-UAS	Reed Switch NO	RC-UA2	Rear Clevis	SRE-UA2	Spherical Rod Eye
T06-UAS	Reed Switch NC	FF-UA2	Front Flange Plate	MTE-UA2	Male Thread End
G06-UAS	Sinking Switch NO (NPN)	TB-UA2	Trunnion Brackets (Pair)	FRE-UA2	Female Rod Eye
J06-UAS	Sinking Switch NC (NPN)			SAC-UA2	Self Aligning Coupler
K06-UAS	Sourcing Switch NO (PNP)			CRE-UA2	Clevis Rod End
Q06-UAS	Sourcing Switch NC (PNP)				

Accessories sold separately



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