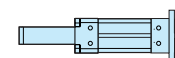


Axi dyne[®] Rod Screw Actuator Technical Data



ROD SCREW

RSA/RSM ROD SCREW ACTUATORS

The following pages contain detailed information about Tol-O-Matic rod type actuators. Visit www.tolomatic.com for the latest updates, Tol-O-Motion Sizing Software, CAD files and software support downloads.



Axi-dyne® RSA/RSM Rod Screw

OVERVIEW

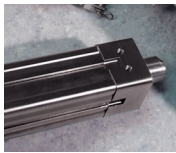
APPLICATION BENEFITS

- Cost-effective choice for short stroke, high thrust applications
- Multiple mounting options for pivotal mounting flexibility
- Used with externally guided and supported loads

ACTUATOR/MOTOR FACTORS

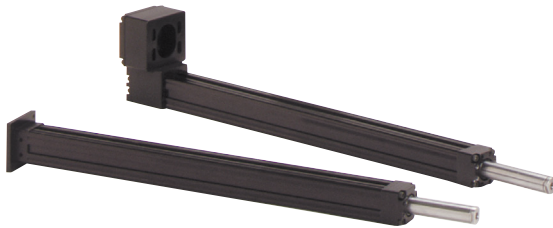
- Actuator's operating temperature range (40-130° F, 4-54° C) should take into consideration heat generated by the motor and drive, linear velocity and work cycle time.
- For large frame motors or small actuators, cantilevered motors need to be supported, if subjected to continuous rapid reversing duty and/or under dynamic conditions.
- Rod screw actuators are designed to push guided and supported loads and are not meant for applications that require substantial side loading. Please contact the factory for details regarding side loading capabilities.

STANDARD MOUNTING



Mounting holes are provided on the underside of the actuator, and rod ends are internally threaded.

MOTOR MOUNTING



RSA rod screw actuators are configured as an in-line base model or a reverse-parallel base model.

In-line Motor Mounting— motor is internally coupled to the actuator shaft.

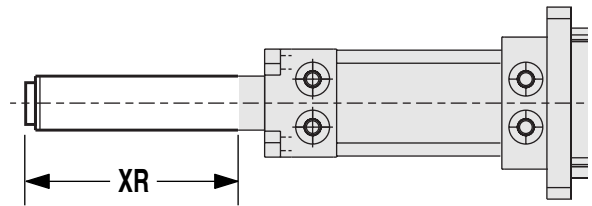
Reverse-parallel Motor Mounting—These factory assembled configurations allow offset mounting of the motor to either side of, or below the actuator. Available in a 1:1 drive ratio on RSA12 and 16 series or 1:1 and 2:1 drive ratios for the RSA24, 32, 50 and 64 series, they offer quiet, zero-backlash coupling of the motor to the actuator screw shaft.

GEARHEAD REDUCTION



Gearheads are available for applications requiring reduction for inertia matching or higher torque at lower speeds. High efficiency, single stage, true planetary gearheads are available for the RSA24, 32, 50 and 64 series in 5.5:1 and 10:1 ratios for reduction solutions with most Tol-O-Matic NEMA 23- and 34-frame motors. For gearhead specifications and dimensions, see page F-10 for details.

OPTIONAL ROD EXTENSION



In vertical applications only, the thrust rod length can be extended by specifying the rod extension option. *This does not increase the working stroke, only the length of the thrust rod.*

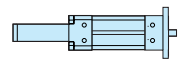
⚠ *The XR dimension in the configuration string (extension + stroke) should not exceed the maximum stroke of the specified actuator. Consult the factory for extensions greater than the maximum stroke length.*

MAXIMUM STROKE (in)		MAXIMUM STROKE (mm)	
RSA12	12	RSM12	305
RSA16	18	RSM16	457
RSA24	24	RSM24	610
RSA32	36	RSM32	914
RSA50	48	RSM50	1,219
RSA64	60	RSM64	1,524

SWITCHES



Switches: Reed, dc Hall-effect and ac TRIAC.
See page I-1.



ROD SCREW

RSA/RSM Series

- Application benefits
- Actuator/motor factors
- Standard mounting
- Motor mounting
- Gearhead reduction
- Rod Extension
- Switches

Axi dyne® RSA/RSM Rod Screw

OVERVIEW

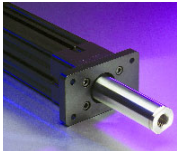
MOUNTING OPTIONS



Mounting Plates – used when mounting holes on bottom of actuator are not accessible.



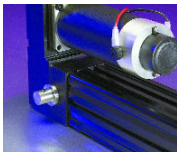
Foot Mount – used for mountings other than flush.



Front and Back Flange Mounts – used when a bottom-tapped mount is not an option or where bottom support mechanisms are not feasible. Flange can be mounted directly to framework or a bulkhead.



Clevis and Eye Mounts – used when the actuator has to compensate for misalignment or pivot about an axis when free movement is available in the back of the actuator. Clevis and eye mounts are only available on reverse parallel models.



Trunnion Mount – used where space is limited in the rear of the actuator and when pivoting about an axis is required.

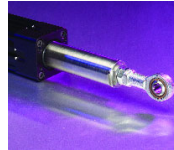
ROD END OPTIONS



Externally Threaded Rod End – an alternative to the standard internally threaded end.



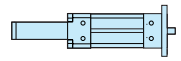
Clevis Rod End – used with the externally threaded rod end when the actuator has to compensate for misalignment or pivot about an axis.



Spherical Rod Eye – allows for slight misalignment between the load and the actuator (radial and angular). Uses an industry-standard bearing.



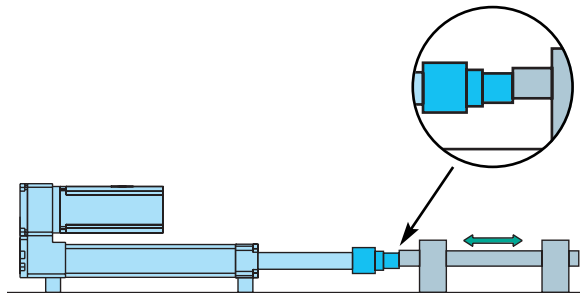
Alignment Coupler – used in combination with the externally threaded rod end to provide smooth motion and extend actuator life by preventing binding caused by angular or axial misalignment. Not available for use with clevis or trunnion mounts, as they must be rigidly mounted.



ROD SCREW

RSA/RSM Series

- Mounting options
- Rod end options



The alignment coupler requires the use of the MET external rod end option.

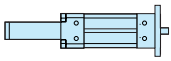
Axi-dyne® RSA/RSM Rod Screw

ACME SCREW/NUT COMBINATIONS

ACME SCREW CRITICAL SPEED CAPACITIES

RSA/RSM12, 16, 24, 32: CRITICAL SPEED WITH ENGLISH ACME SCREW

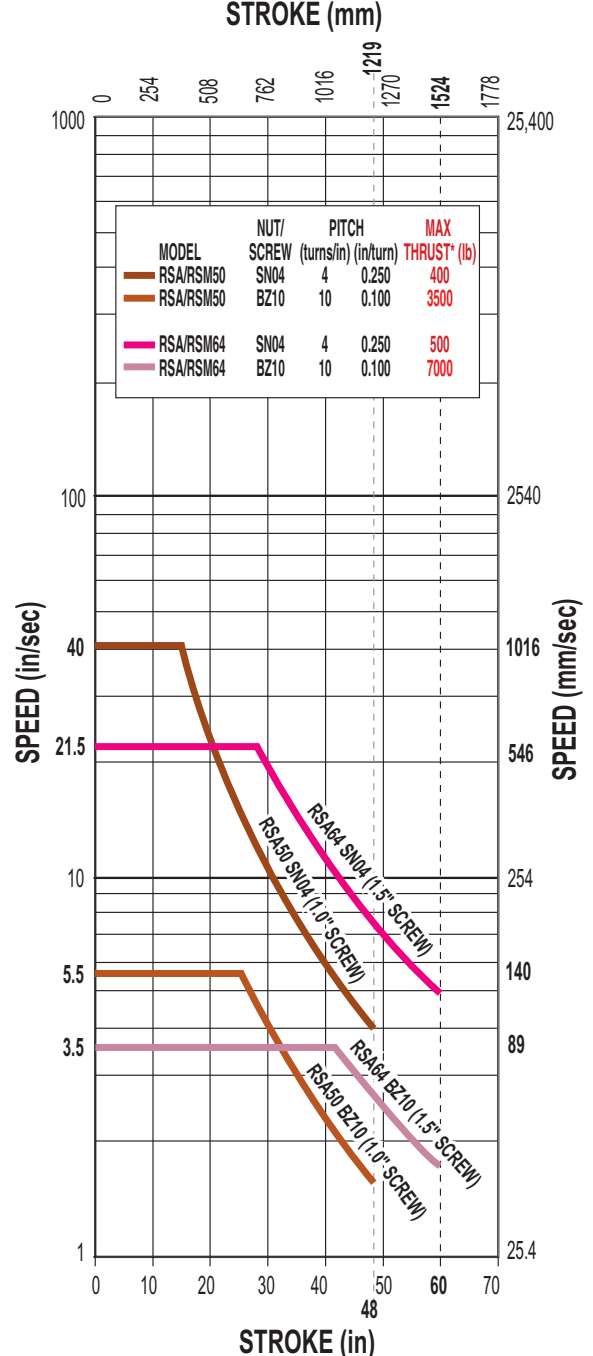
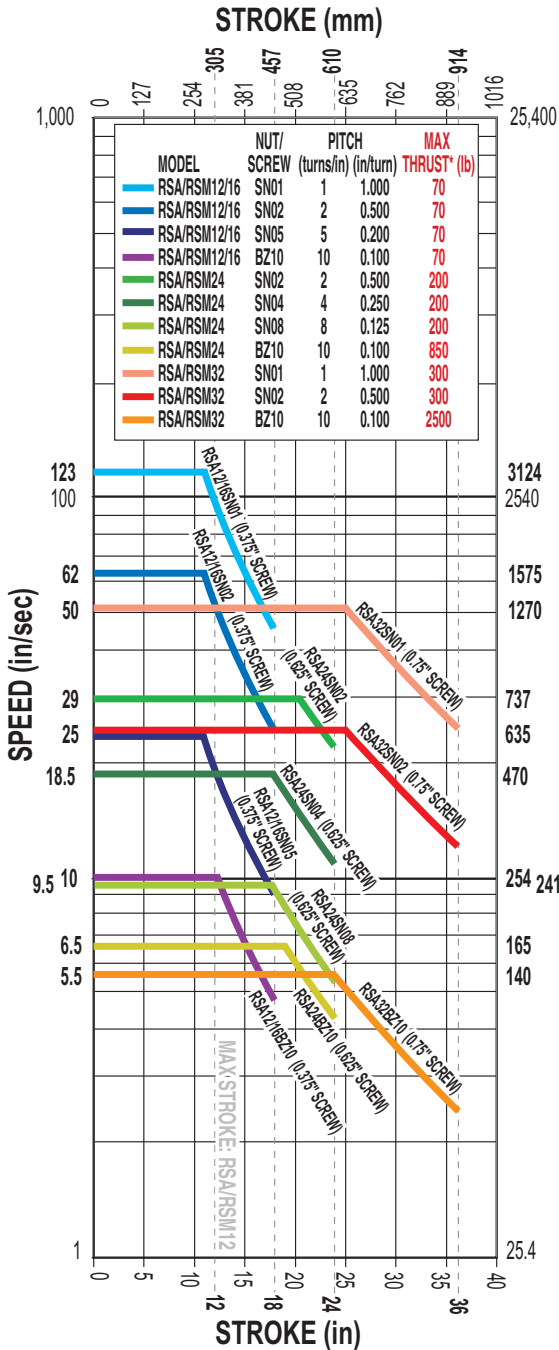
RSA/RSM50, 64: CRITICAL SPEED WITH ENGLISH ACME SCREW



ROD SCREW

RSA/RSM Series

- Acme screw critical speed capacities



* Maximum thrust is the maximum continuous dynamic thrust subject to Thrust x Velocity limitation.

Dotted lines represent maximum stroke for actuator body size.

For Screw PV limits, refer to the individual charts located in the technical section for each actuator body size.

SCREW CODE	DESCRIPTION
SN	Solid Nut
BZ	Bronze Nut

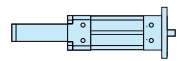
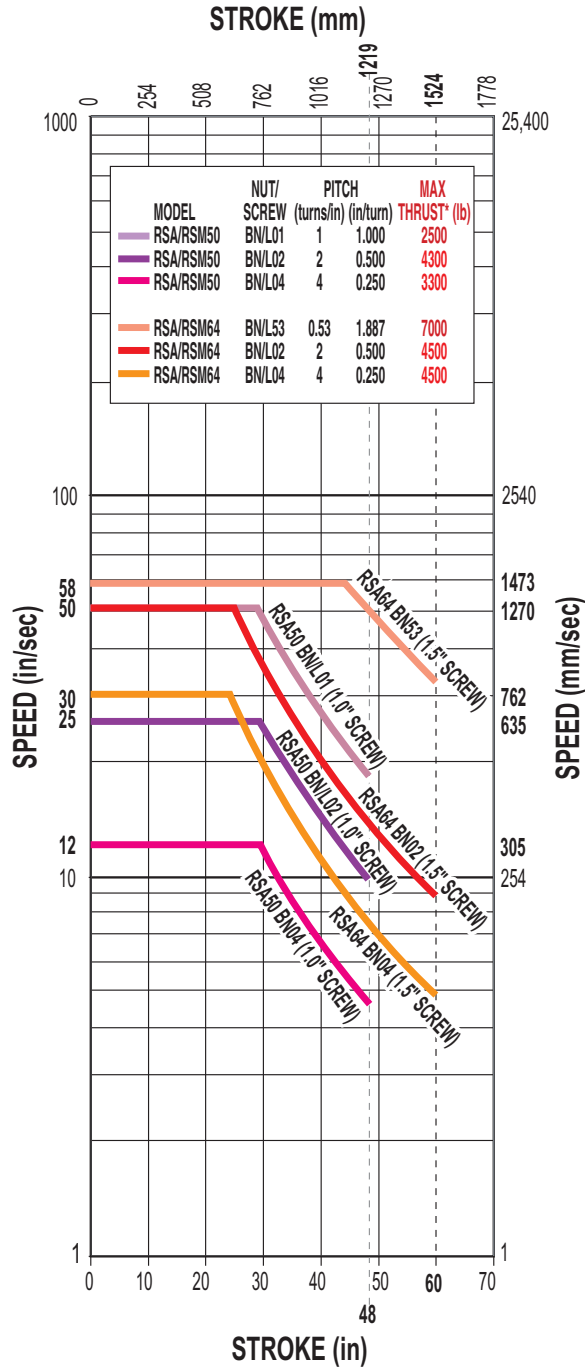
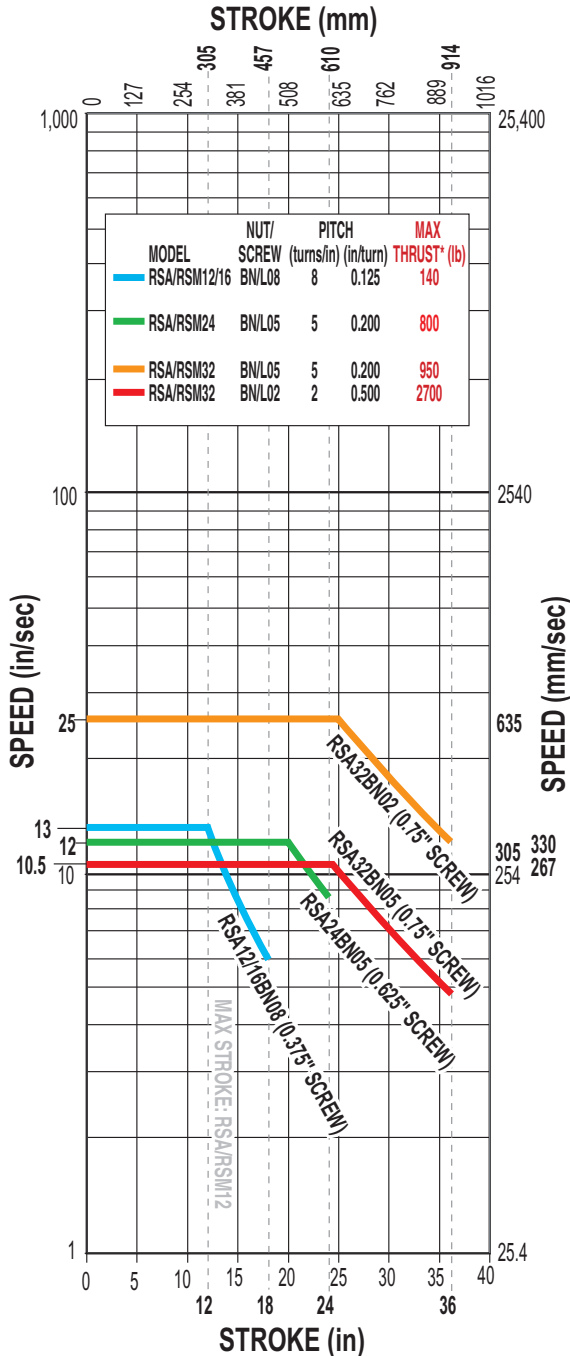
Axi-dyne® RSA/RSM Rod Screw

BALL SCREW/NUT COMBINATIONS

BALL SCREW CRITICAL SPEED CAPACITIES

RSA/RSM12, 16, 24, 32: CRITICAL SPEED WITH ENGLISH BALL SCREW

RSA/RSM50, 64: CRITICAL SPEED WITH ENGLISH BALL SCREW



ROD SCREW

- RSA/RSM Series**
- Ball screw critical speed capacities



* Maximum thrust reflects 90% reliability for 1 million linear inches of travel.

Dotted lines represent maximum stroke for screw selections.

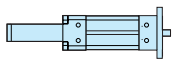
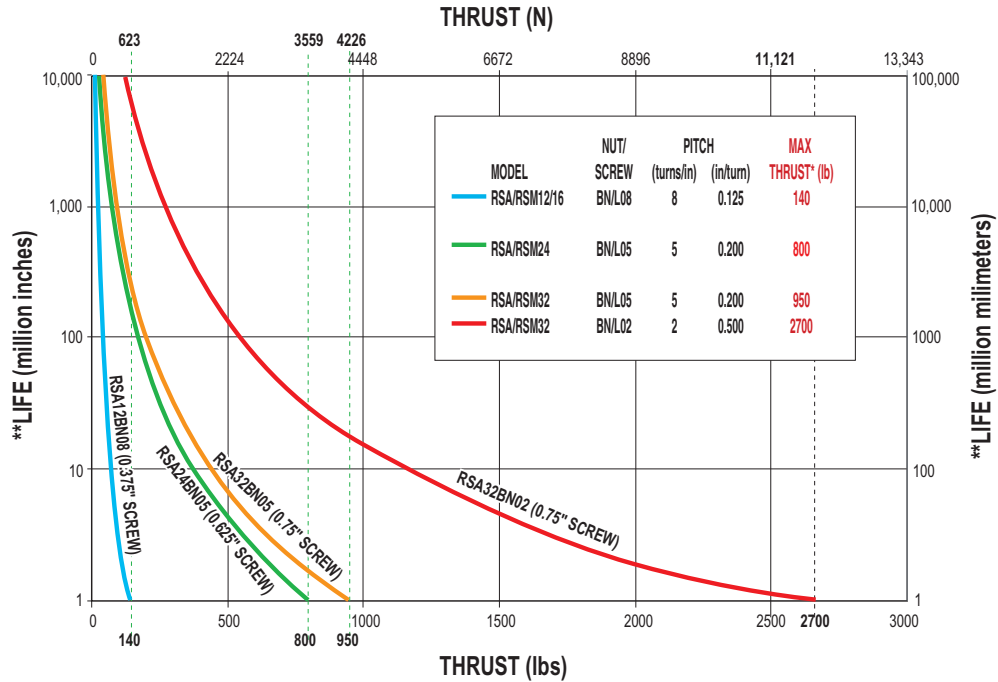
SCREW CODE	DESCRIPTION
BN	Ball Nut
BNL	Low-backlash Ball Nut

Axi *dyne*® RSA/RSM Rod Screw

BALL SCREW/NUT COMBINATIONS

BALL SCREW LIFE CALCULATIONS

RSA/RSM12, 16, 24, 32: LIFE CAPACITIES WITH ENGLISH BALL SCREW

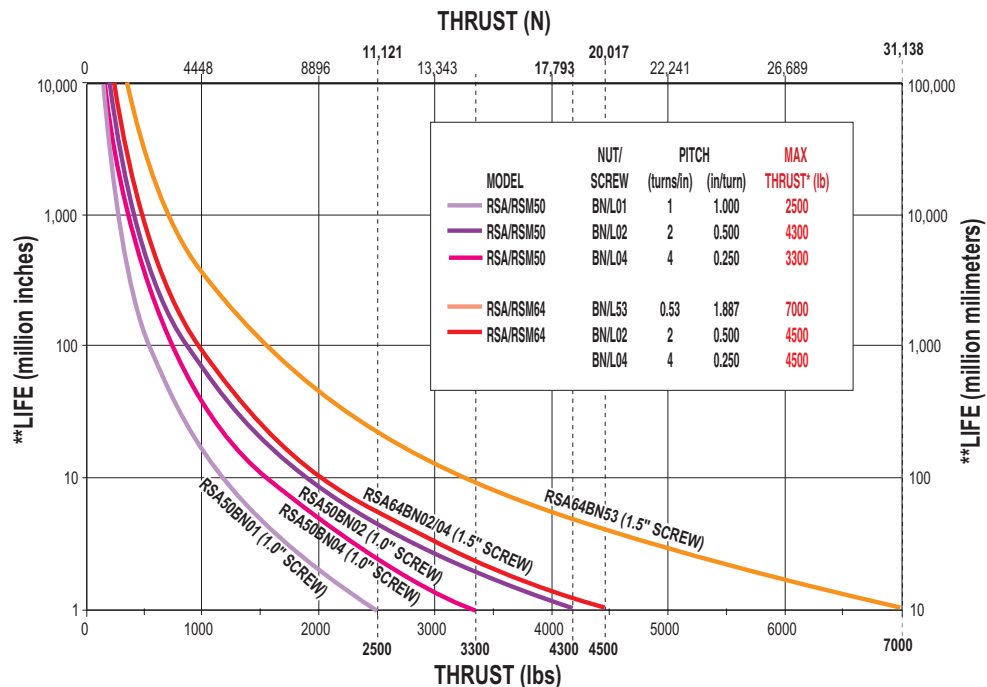


ROD SCREW

RSA/RSM Series

- Ball screw life calculations

RSA50, 64: LIFE CAPACITIES WITH ENGLISH BALL SCREW



* Maximum thrust reflects 90% reliability for 1 million linear inches of travel.

Dotted lines represent maximum thrust for screw selections.

**Life indicates theoretical maximum life of screw only, under ideal conditions and does not indicate expected life of actuator.

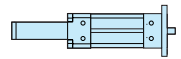


RSA/RSM Rod Screw

OVERALL SERIES SPECIFICATIONS

RSA SPECIFICATIONS RELATED TO ACTUATOR SIZE AND SCREW SELECTION

RSA ACTUATORS WITH ENGLISH LEAD SCREWS												
ACTUATOR SERIES	SCREW DIA. in	SCREW TYPE	TPI turns/in	LEAD ACCURACY in/ft	BACKLASH in	MAXIMUM THRUST* lb	BASE ACTUATOR INERTIA		INERTIA PER/in OF STROKE lb-in ²	BREAKAWAY TORQUE lb-in	MOVING PARTS WEIGHT	
							In Line	Rev. Parallel			Base	Per Inch
							lb-in ²	lb-in ²			lb	lb
RSA12	0.38	SN01	1	0.010	0.007	70	0.0044	0.0047	0.0015	0.625	0.11	0.04
		SN02	2	0.006	0.007	70	0.0024	0.0026	0.0008	0.563	0.11	0.04
		SN05	5	0.006	0.007	70	0.0018	0.0020	0.0005	0.500	0.11	0.04
		BZ10	10	0.006	0.008	70	0.0017	0.0019	0.0005	0.500	0.11	0.04
		BN08	8	0.003	0.015	140	0.0017	0.0020	0.0005	0.500	0.19	0.04
		BNL08	8	0.003	0.002	140	0.0017	0.0020	0.0005	0.500	0.19	0.04
RSA16	0.38	SN01	1	0.010	0.007	70	0.0064	0.0065	0.0020	1.313	0.19	0.06
		SN02	2	0.006	0.007	70	0.0028	0.0029	0.0009	1.125	0.19	0.06
		SN05	5	0.006	0.007	70	0.0018	0.0019	0.0006	1.063	0.19	0.06
		BZ10	10	0.006	0.008	70	0.0016	0.0017	0.0005	1.063	0.19	0.06
		BN08	8	0.003	0.015	140	0.0017	0.0018	0.0005	1.000	0.27	0.06
		BNL08	8	0.003	0.002	140	0.0017	0.0018	0.0005	1.000	0.27	0.06
RSA24	0.63	SN02	2	0.005	0.007	200	0.0223	0.0227	0.0051	1.813	0.75	0.14
		SN04	4	0.010	0.007	200	0.0187	0.0192	0.0044	1.688	0.75	0.14
		SN08	8	0.010	0.007	200	0.0178	0.0183	0.0042	1.625	0.75	0.14
		BZ10	10	0.006	0.008	850	0.0177	0.0182	0.0042	1.625	0.75	0.14
		BN05	5	0.003	0.015	800	0.0205	0.0209	0.0043	2.188	1.01	0.14
		BNL05	5	0.003	0.002	800	0.0205	0.0209	0.0043	2.188	1.01	0.14
RSA32	0.75	SN01	1	0.005	0.007	300	0.0774	0.0731	0.0125	3.125	0.97	0.15
		SN02	2	0.005	0.007	300	0.0590	0.0547	0.0096	2.688	0.97	0.15
		BZ10	10	0.006	0.008	2500	0.0531	0.0488	0.0087	3.125	0.97	0.15
		BN02	2	0.004	0.015	2700	0.0723	0.0680	0.0096	2.438	1.44	0.15
		BNL02	2	0.004	0.002	2700	0.0723	0.0680	0.0096	2.438	1.44	0.15
		BN05	5	0.003	0.015	950	0.0647	0.0604	0.0088	2.313	1.44	0.15
RSA50	1.00	SN04	4	0.010	0.007	400	0.2060	0.2027	0.0280	4.250	2.62	0.30
		BZ10	10	0.006	0.008	3500	0.3193	0.3160	0.0351	4.125	2.62	0.30
		BN01	1	0.004	0.002	2500	0.3193	0.3160	0.0351	4.125	3.55	0.30
		BNL01	1	0.004	0.002	2500	0.3193	0.3160	0.0351	4.125	3.55	0.30
		BN02	2	0.004	0.015	4300	0.2519	0.2485	0.0294	3.625	3.55	0.30
		BNL02	2	0.004	0.002	4300	0.2519	0.2485	0.0294	3.625	3.55	0.30
		BN04	4	0.004	0.015	3300	0.2350	0.2317	0.0280	4.250	3.55	0.30
		BNL04	4	0.004	0.002	3300	0.2350	0.2317	0.0280	4.250	3.55	0.30
RSA64	1.50	SN04	4	0.010	0.007	500	1.5447	1.5043	0.1399	5.375	5.01	0.45
		BZ10	10	0.006	0.008	7000	1.5380	1.4977	0.1393	5.438	5.01	0.45
		BN53	0.53	0.004	0.015	7000	2.4996	2.4592	0.1797	7.188	7.59	0.45
		BNL53	0.53	0.004	0.002	7000	2.4996	2.4592	0.1797	7.188	7.59	0.45
		BN02	2	0.004	0.015	4500	1.8632	1.8229	0.1420	5.313	7.59	0.45
		BNL02	2	0.004	0.002	4500	1.8632	1.8229	0.1420	5.313	7.59	0.45
		BN04	4	0.004	0.015	4500	1.8272	1.7868	0.1399	5.375	7.59	0.45
		BNL04	4	0.004	0.002	4500	1.8272	1.7868	0.1399	5.375	7.59	0.45



ROD SCREW

RSA/RSM Series

- RSA actuator/screw specifications

SCREW CODE	DESCRIPTION
SN	Solid Nut
BZ	Bronze Nut
BN	Ball Nut
BNL	Low-Backlash Ball Nut



Contact the factory for higher accuracy and lower backlash options.

* For Acme screws, maximum thrust is the maximum continuous dynamic thrust subject to Thrust x Velocity limitation.

For ball screws, maximum thrust reflects 90% reliability for 1 million linear inches of travel.

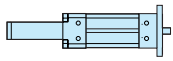
Axi *dyne*® RSA/RSM Rod Screw

OVERALL SERIES SPECIFICATIONS

RSM SPECIFICATIONS RELATED TO ACTUATOR SIZE AND SCREW SELECTION

RSM METRIC ACTUATORS* WITH ENGLISH LEAD SCREWS

ACTUATOR SERIES	SCREW DIA. in	SCREW TYPE	TPI turns/in	LEAD ACCURACY mm/300	BACKLASH mm	MAXIMUM THRUST** N	BASE ACTUATOR INERTIA		INERTIA PER/in OF STROKE k-m ² x 10 ⁻⁴	BREAKAWAY TORQUE N-m	MOVING PARTS WEIGHT	
							In Line	Rev. Parallel			Base N	Per Inch N
							k-m ² x 10 ⁻⁴	k-m ² x 10 ⁻⁴				
RSM12	0.38	SN01	1	0.254	0.18	311	1.301	1.377	0.443	0.071	0.489	0.178
		SN02	2	0.152	0.18	311	0.690	0.765	0.220	0.064	0.489	0.178
		SN05	5	0.152	0.18	311	0.518	0.594	0.158	0.056	0.489	0.178
		BZ10	10	0.152	0.20	311	0.494	0.570	0.149	0.056	0.489	0.178
		BN08	8	0.076	0.38	623	0.508	0.584	0.151	0.056	0.845	0.178
		BNL08	8	0.076	0.05	623	0.508	0.584	0.150	0.056	0.845	0.178
RSM16	0.38	SN01	1	0.254	0.18	311	1.866	1.905	0.591	0.148	0.845	0.267
		SN02	2	0.152	0.18	311	0.810	0.849	0.257	0.127	0.845	0.267
		SN05	5	0.152	0.18	311	0.514	0.553	0.164	0.120	0.845	0.267
		BZ10	10	0.152	0.20	311	0.472	0.511	0.151	0.120	0.845	0.267
		BN08	8	0.076	0.38	623	0.489	0.528	0.153	0.113	1.201	0.267
		BNL08	8	0.076	0.05	623	0.489	0.528	0.153	0.113	1.201	0.267
RSM24	0.63	SN02	2	0.127	0.18	890	6.516	6.651	1.486	0.205	3.336	0.623
		SN04	4	0.254	0.18	890	5.474	5.609	1.292	0.191	3.336	0.623
		SN08	8	0.254	0.18	890	5.213	5.349	1.243	0.184	3.336	0.623
		BZ10	10	0.152	0.20	3781	5.182	5.317	1.237	0.184	3.336	0.623
		BN05	5	0.076	0.38	3558	5.991	6.126	1.268	0.247	4.493	0.623
		BNL05	5	0.076	0.02	3558	5.991	6.126	1.268	0.247	4.493	0.623
RSM32	0.75	SN01	1	0.127	0.18	1334	22.651	21.386	3.653	0.353	4.315	0.667
		SN02	2	0.127	0.18	1334	17.261	15.996	2.820	0.304	4.315	0.667
		BZ10	10	0.152	0.20	11120	15.536	14.271	2.553	0.353	4.315	0.667
		BN02	2	0.102	0.38	12010	21.160	19.895	2.820	0.275	6.405	0.667
		BNL02	2	0.102	0.02	12010	21.160	19.895	2.820	0.275	6.405	0.667
		BN05	5	0.076	0.38	4226	18.913	17.655	2.586	0.261	6.405	0.667
RSM50	1.00	SN04	4	0.254	0.18	1779	60.254	59.289	8.180	0.480	11.654	1.334
		BZ10	10	0.152	0.20	15569	59.235	58.270	8.063	0.410	11.654	1.334
		BN01	1	0.102	0.38	11120	93.402	92.422	10.264	0.466	15.791	1.334
		BNL01	1	0.102	0.02	11120	93.402	92.422	10.264	0.466	15.791	1.334
		BN02	2	0.102	0.38	19130	73.675	72.695	8.597	0.410	15.791	1.334
		BNL02	2	0.102	0.02	19130	73.675	72.695	8.597	0.410	15.791	1.334
		BN04	4	0.102	0.38	14680	68.729	67.764	8.180	0.480	15.791	1.334
		BNL04	4	0.102	0.02	14680	68.729	67.764	8.180	0.480	15.791	1.334
RSM64	1.50	SN04	4	0.254	0.18	2224	451.825	440.017	40.913	0.607	22.286	2.002
		BZ10	10	0.152	0.20	31138	449.876	438.068	40.738	0.614	22.286	2.002
		BN53	0.53	0.102	0.38	31138	731.133	719.325	52.574	0.812	33.762	2.002
		BNL53	0.53	0.102	0.02	31138	731.133	719.325	52.574	0.812	33.762	2.002
		BN02	2	0.102	0.38	20017	544.995	533.188	41.538	0.600	33.762	2.002
		BNL02	2	0.102	0.02	20017	544.995	533.188	41.538	0.600	33.762	2.002
		BN04	4	0.102	0.38	20017	534.451	522.644	40.913	0.607	33.762	2.002
		BNL04	4	0.102	0.02	20017	534.451	522.644	40.913	0.607	33.762	2.002



ROD SCREW

RSA/RSM Series

- RSM actuator/screw specifications

SCREW CODE	DESCRIPTION
SN	Solid Nut
BZ	Bronze Nut
BN	Ball Nut
BNL	Low-Backlash Ball Nut



Contact the factory for higher accuracy and lower backlash options.

* RSM metric actuators use the same leadscrew as the RSA English series. Mounting threaded and dowel pin holes on RSM series are metric.

**For Acme screws, maximum thrust is the maximum continuous dynamic thrust subject to Thrust x Velocity limitation.

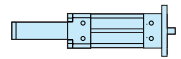
For ball screws, maximum thrust reflects 90% reliability for 1 million linear inches of travel.

Axi dyne® RSA/RSM Rod Screw

OVERALL SERIES SPECIFICATIONS

GENERAL ACTUATOR SPECIFICATIONS

SPECIFICATIONS	RSA ENGLISH ACTUATORS						
	RSA12		RSA16	RSA24	RSA32	RSA50	RSA64
Weights	17 frame	23 frame					
In-Line base weight (lb)	1.73	1.73	3.73	3.98	6.11	14.21	23.01
Reverse parallel base weight (lb)	2.28	2.42	4.00	5.68	9.76	20.10	28.51
Weight per in (mm) of stroke (lb)	0.013	0.128	0.30	0.33	0.46	0.86	1.38
Maximum Stroke (in)	12		18	24	36	48	60
Temperature Operating Range* (°F)	40 - 130		40 - 130	40 - 130	40 - 130	40 - 130	40 - 130
IP Rating**	54		54	54	54	54	54



ROD SCREW

- RSA/RSM Series**
- General specifications

SPECIFICATIONS	RSM METRIC ACTUATORS						
	RSM12		RSM16	RSM24	RSM32	RSM50	RSM64
Weights	17 frame	23 frame					
In-Line base weight (kg)	0.78	0.78	1.69	1.80	2.77	6.44	10.43
Reverse parallel base weight (kg)	1.03	1.10	1.81	2.57	4.42	9.11	12.93
Weight per in (mm) of stroke (kg)	0.0002	0.0002	0.00536	0.00589	0.00821	0.01536	0.02464
Maximum Stroke (mm)	304		457	609	914	1219	1524
Temperature Operating Range* (°C)	4 - 54		4 - 54	4 - 54	4 - 54	4 - 54	4 - 54
IP Rating**	54		54	54	54	54	54

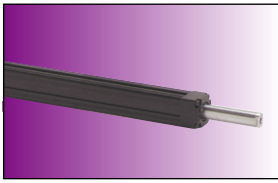


* **Heat generated by the motor and drive should be taken into consideration as well as linear velocity and work cycle time. For applications that require operation outside of the recommended temperature range, contact the factory.**

** **Protected against dust and splashing water.**

LARGE FRAME MOTORS AND SMALLER SIZE ACTUATORS: Cantilevered motors need to be supported, if subjected to continuous rapid reversing duty and/or under dynamic conditions.

SIDE LOADING CONSIDERATIONS: Rod screw actuators are designed to push guided and supported loads and are not meant for applications that require substantial side loading. Please contact the factory for details regarding side loading capabilities.

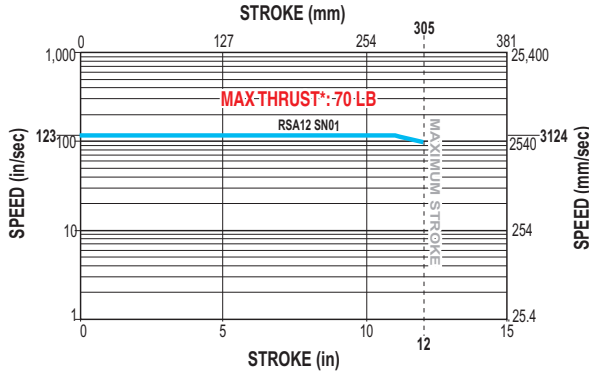


Axi
dyne[®]

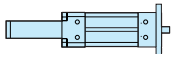
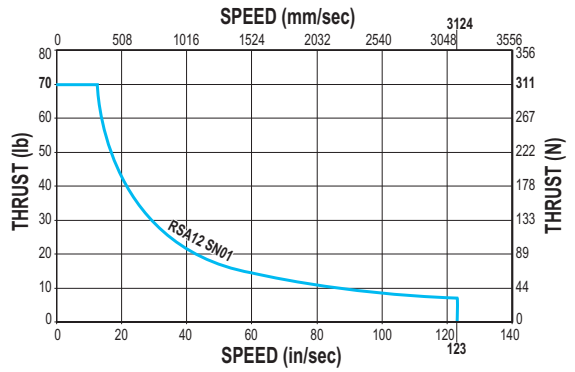
RSA/RSM12 Series ACME SCREW SPECIFICATIONS

RSA12 ACME SCREW CRITICAL SPEED AND PV LIMITS

CRITICAL SPEED WITH 0.375" 1TPI ENGLISH ACME SCREW



PV LIMITS: 0.375" 1TPI ENGLISH ACME SCREW

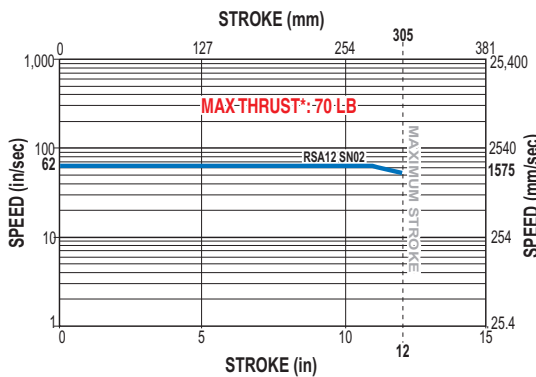


ROD SCREW

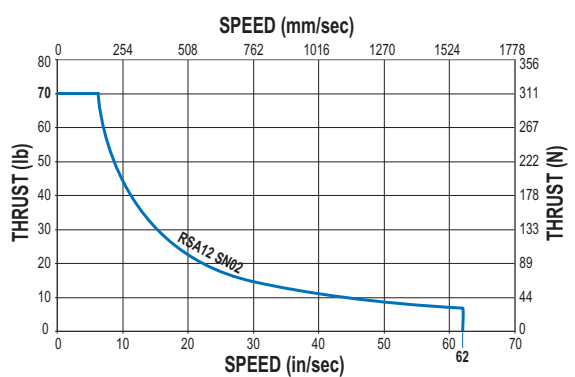
RSA/RSM12 Series

- Acme screw critical speed

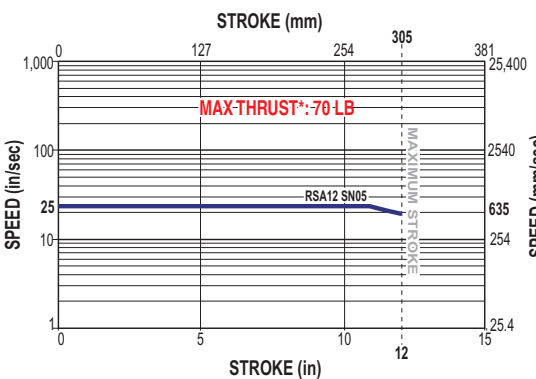
CRITICAL SPEED WITH 0.375" 2TPI ENGLISH ACME SCREW



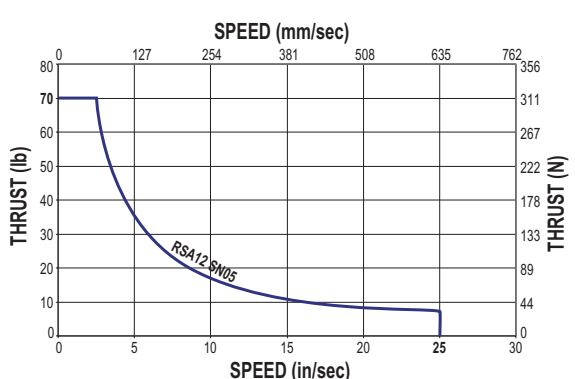
PV LIMITS: 0.375" 2TPI ENGLISH ACME SCREW



CRITICAL SPEED WITH 0.375" 5TPI ENGLISH ACME SCREW



PV LIMITS: 0.375" 5TPI ENGLISH ACME SCREW



SN = Solid Nut



* Maximum thrust is the maximum continuous dynamic thrust subject to Thrust x Velocity limitation.

PV LIMITS: Any material which carries a sliding load is limited by heat buildup. The factors that affect heat generation rate in an application are the pressure on the nut in pounds per square inch and the surface velocity in feet per minute. The product of these factors provides a measure of the severity of an application.

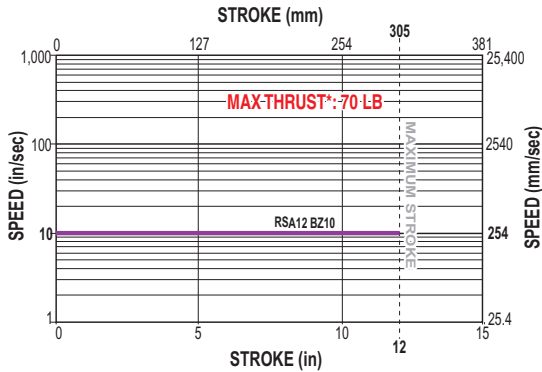
$$P = \frac{\text{Thrust}}{\text{Max. Thrust Rating}} \times V = \frac{\text{Speed}}{\text{Max. Speed Rating}} \leq 0.1$$

Axi dyne® RSA/RSM12 Series

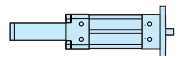
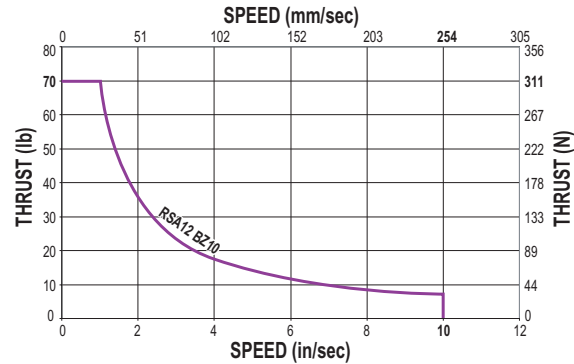
ACME SCREW SPECIFICATIONS

RSA12 ACME SCREW CRITICAL SPEED AND PV LIMITS (continued)

CRITICAL SPEED WITH 0.375" 10TPI ENGLISH ACME SCREW



PV LIMITS: 0.375" 10TPI ENGLISH ACME SCREW



ROD SCREW

RSA/RSM12 Series

- Acme screw critical speed and PV limits
- Ball screw critical speed and life calculations

BZ = Bronze Nut



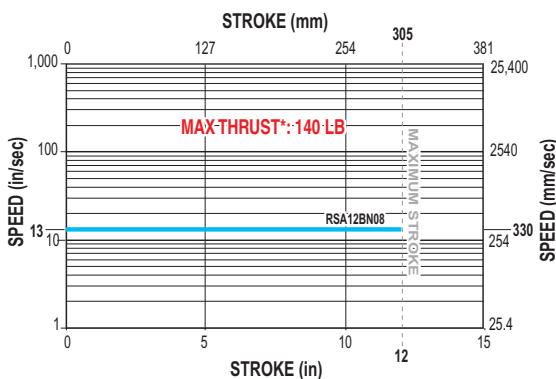
* *Maximum thrust is the maximum continuous dynamic thrust subject to Thrust x Velocity limitation.*

PV LIMITS: Any material which carries a sliding load is limited by heat buildup. The factors that affect heat generation rate in an application are the pressure on the nut in pounds per square inch and the surface velocity in feet per minute. The product of these factors provides a measure of the severity of an application.

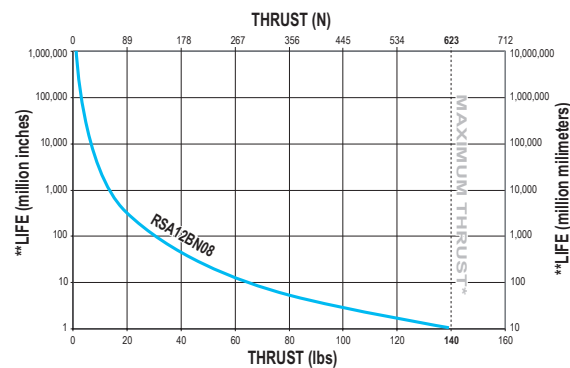
$$P = \frac{\text{Thrust}}{\text{Max. Thrust Rating}} \times V = \frac{\text{Speed}}{\text{Max. Speed Rating}} \leq 0.1$$

RSA12 BALL SCREW CRITICAL SPEED AND LIFE CALCULATIONS

CRITICAL SPEED WITH 0.375" 8TPI ENGLISH BALL SCREW



LIFE CALCULATION: 0.375" 8TPI ENGLISH BALL SCREW



BN = Ball Nut



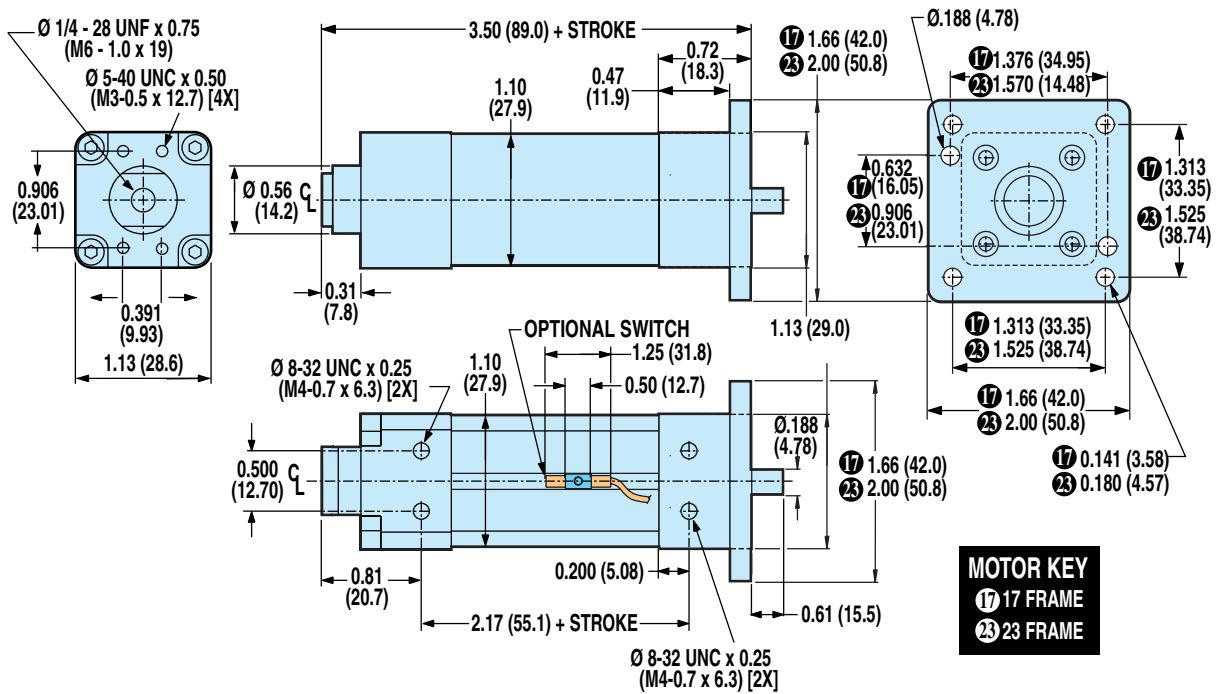
* *Maximum thrust reflects 90% reliability for 1 million linear inches of travel.*

** *Life indicates theoretical maximum life of screw only, under ideal conditions and does not indicate expected life of actuator.*

Axi-dyne® RSA/RSM12 Series

DIMENSIONS

RSA/RSM12 IN-LINE (LMI) BASE MODEL AND SWITCH MOUNTING

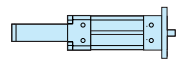
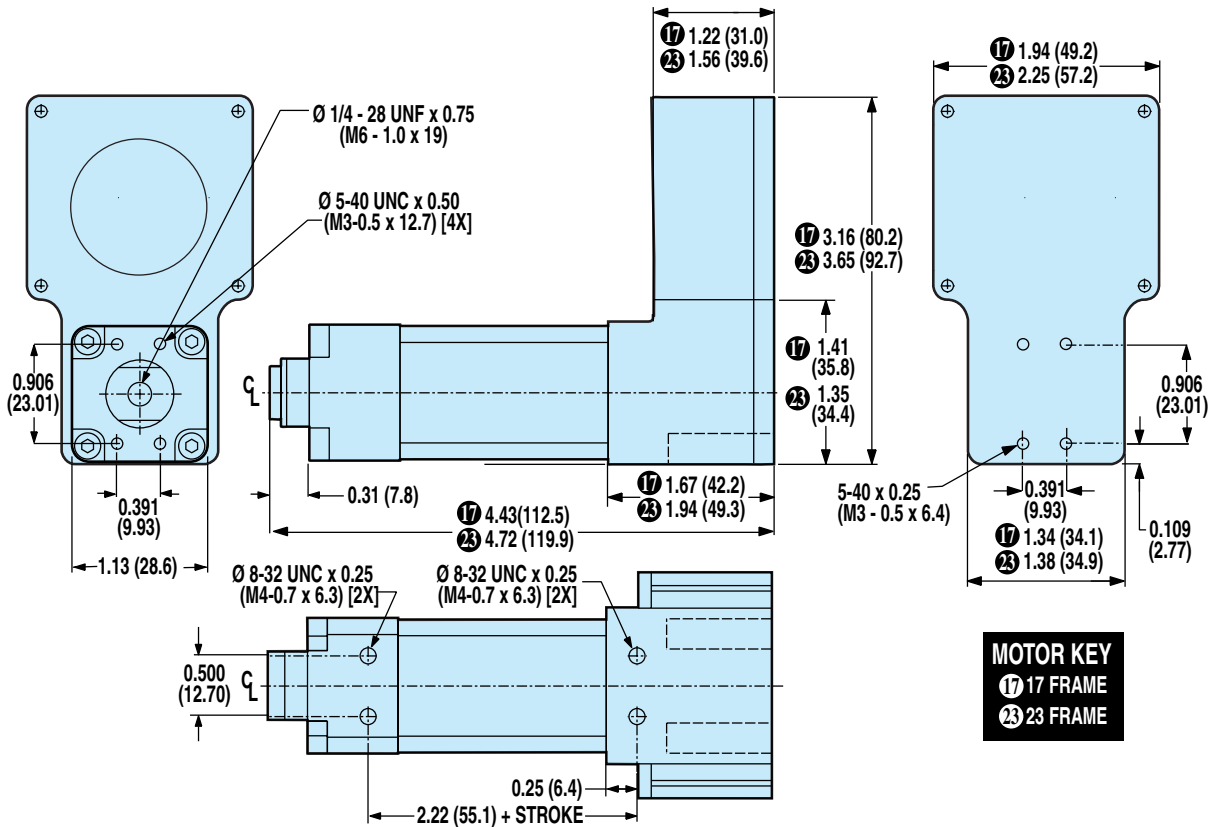


Unless otherwise noted, all dimensions shown are in inches (Dimensions in parenthesis are in millimeters)

Axi-dyne® RSA/RSM12 Series

DIMENSIONS

RSA/RSM12 REVERSE PARALLEL (RP) BASE MODEL OPTIONS AND SWITCH MOUNTING



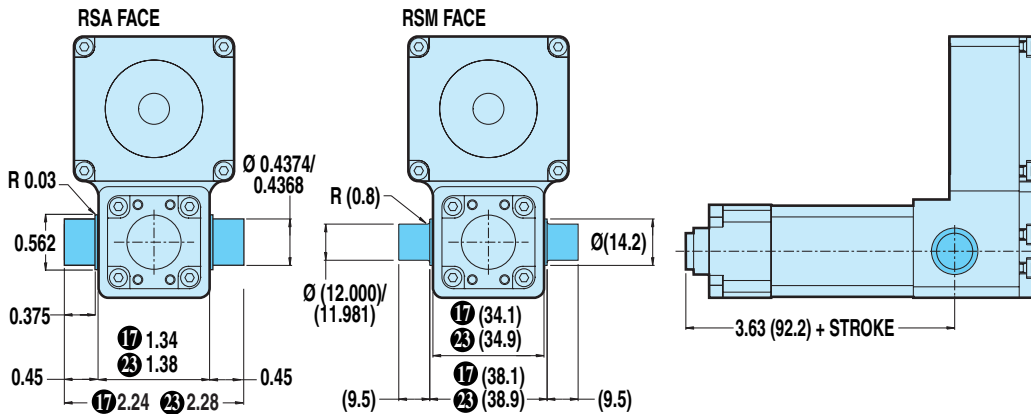
ROD SCREW

RSA/RSM12 Series

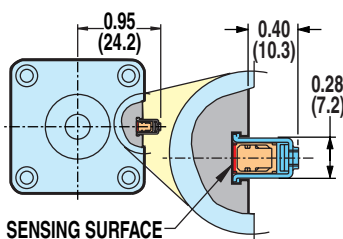
- Reverse parallel base model options and switch mounting

OPTIONAL TRUNNION MOUNT: TRN

⚠ TRUNNION MOUNTS ARE NOT FIELD RETROFITTABLE AND MUST BE CONFIGURED AS PART OF THE BASE ACTUATOR. CONTACT THE FACTORY FOR ADDITIONAL INFORMATION.



OPTIONAL SWITCH MOUNTING ⚠⚡



- ⚠ CAUTION: DO NOT OVERTIGHTEN SWITCH HARDWARE WHEN INSTALLING
- Ⓜ NOTE: The scored face of the switch indicates the sensing surface and must face toward the magnet

Dimensions are in inches
(Dimensions in parenthesis are in millimeters)

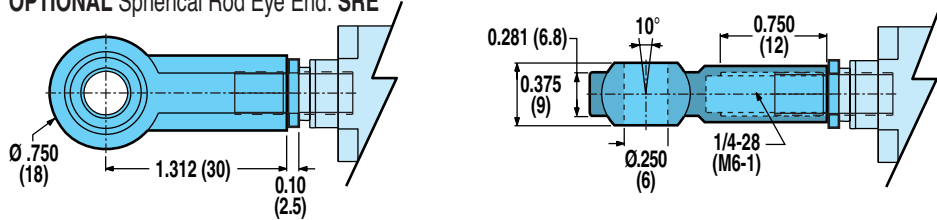
Axi dyne® RSA/RSM12 Series

DIMENSIONS

RSA/RSM12 RETROFITTABLE ROD END OPTIONS

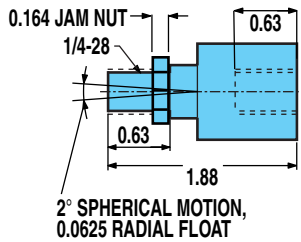
FOR IN-LINE (LMI) OR REVERSE PARALLEL (RP) MODELS

OPTIONAL Spherical Rod Eye End: SRE

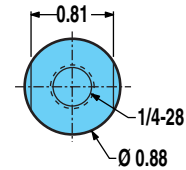
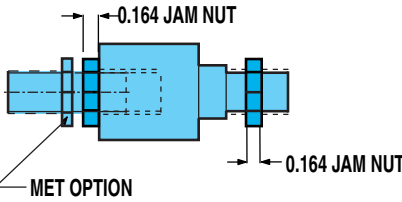


OPTIONAL Alignment Coupler Rod End: ALC

INTERNALLY THREADED END SPECIFIED



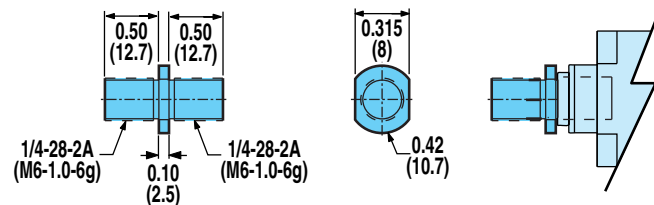
EXTERNALLY THREADED END SPECIFIED



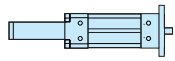
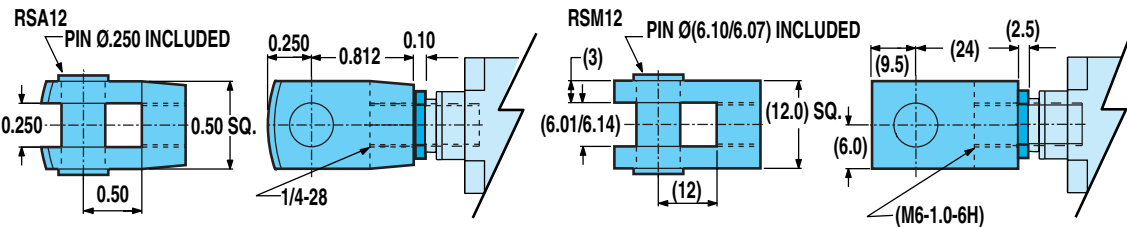
! THE ALIGNMENT COUPLER COMES WITH AN INTERNAL THREAD. IF AN EXTERNAL THREAD IS PREFERRED, THE ADDITION OF THE "MET" OPTION IS REQUIRED.

NOT AVAILABLE ON THE RSM12 METRIC MODEL.

OPTIONAL External Threaded Rod End: MET



OPTIONAL Clevis Rod End: CLV



ROD SCREW

RSA/RSM12 Series

- Retrofittable rod end options

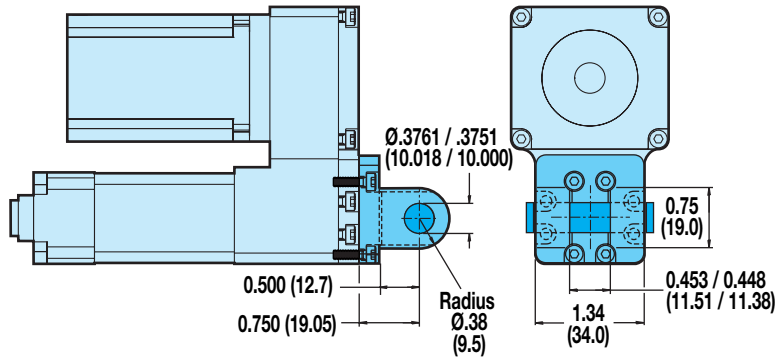
Axi-dyne® RSA/RSM12 Series

DIMENSIONS

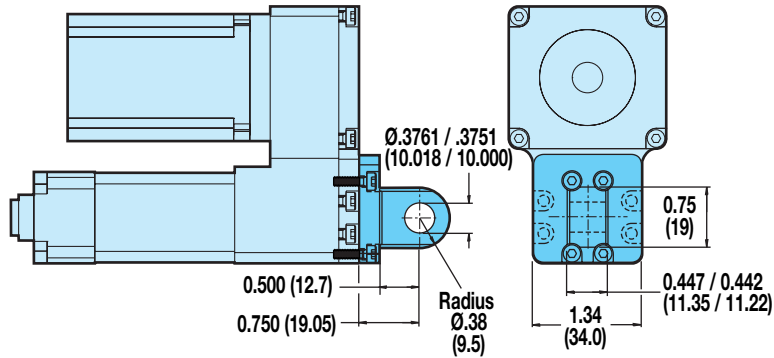
RSA/RSM12 RETROFITTABLE MOUNTING OPTIONS

FOR REVERSE PARALLEL (RP) MODELS ONLY

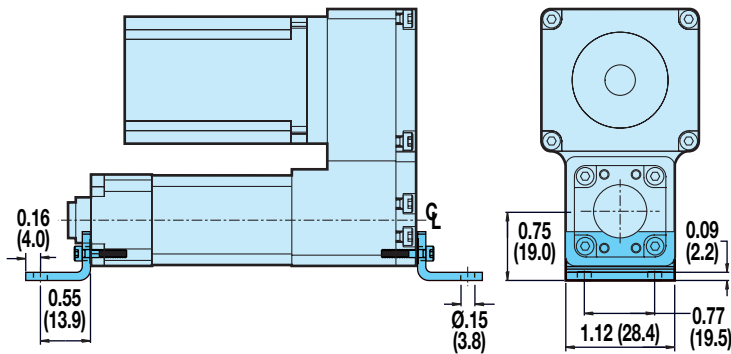
OPTIONAL Clevis Mount: PCD



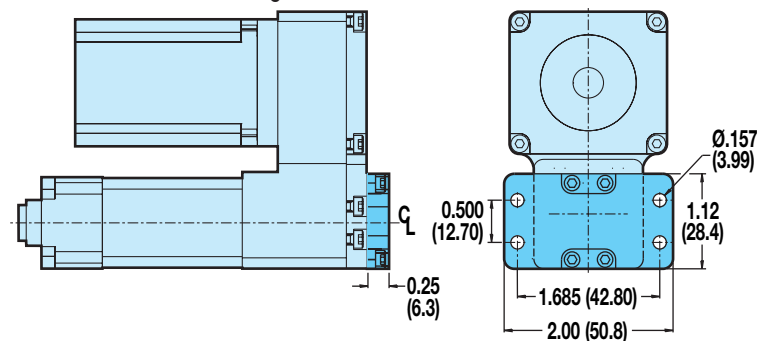
OPTIONAL Eye Mount: PCS



OPTIONAL Foot Mount: FM2



OPTIONAL Back Flange: BFG



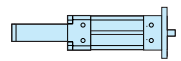
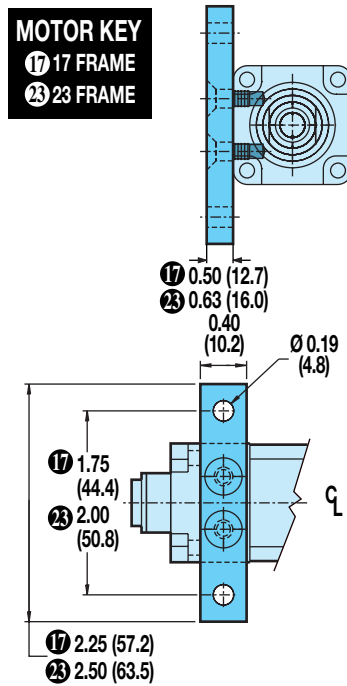
FOR IN-LINE (LMI) OR REVERSE PARALLEL (RP) MODELS

OPTIONAL Mounting Plate: MP2

MOTOR KEY

17 17 FRAME

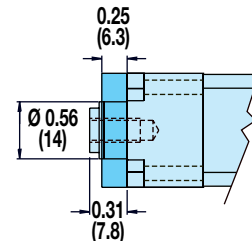
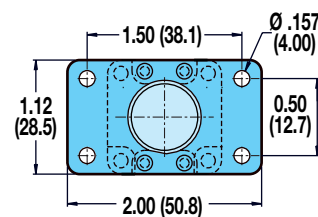
23 23 FRAME



ROD SCREW

RSA/RSM12 Series
• Retrofittable mounting options

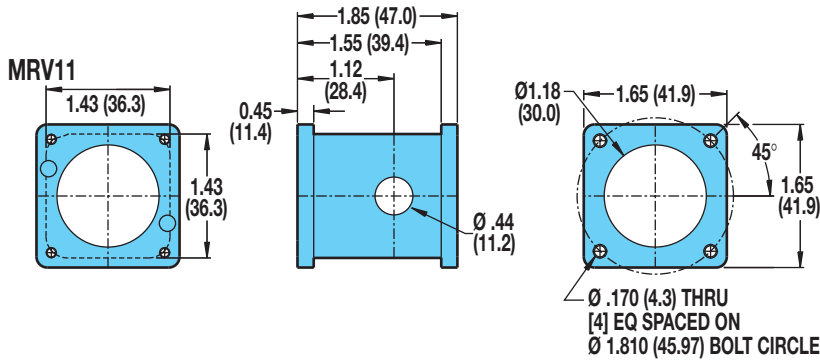
OPTIONAL Front Flange Mount: FFG



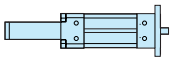
Axi dyne® RSA/RSM12 Series

DIMENSIONS

RSA/RSM12: IN-LINE MOUNTING FOR 17-FRAME MOTORS

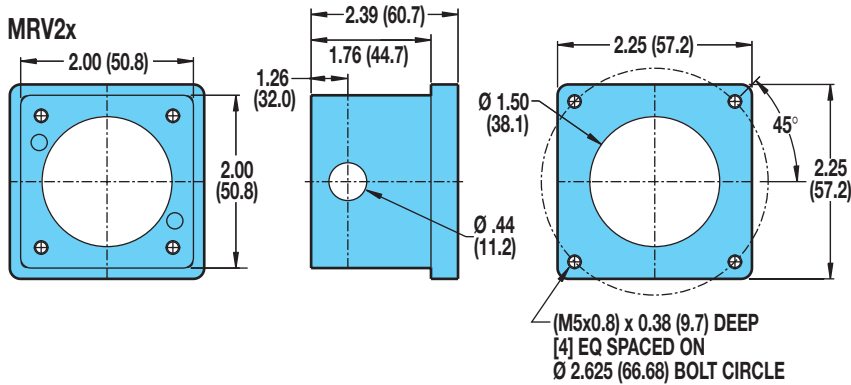


Gearheads are not available for the RSA/RSM12.



ROD SCREW

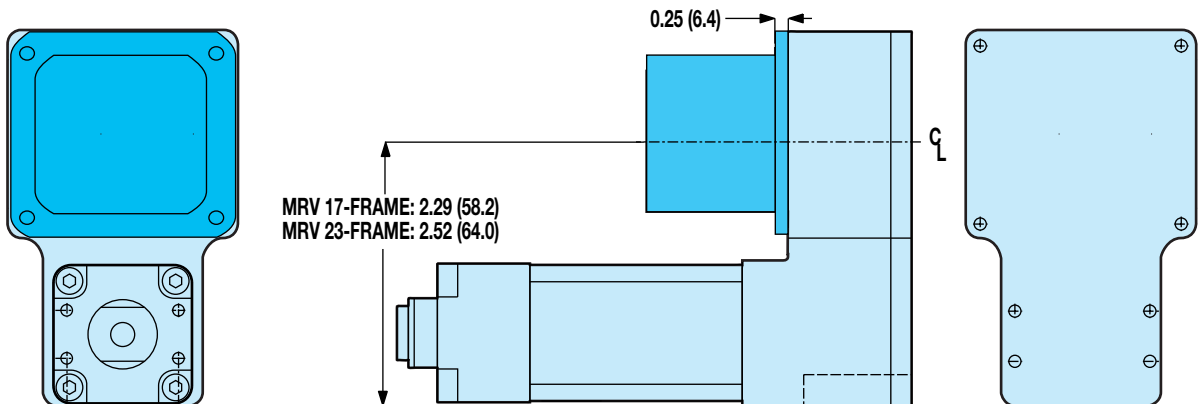
RSA/RSM12: IN-LINE MOUNTING FOR 23-FRAME MOTORS



Gearheads are not available for the RSA/RSM12.

- In-line motor mounting
- Reverse parallel motor mounting

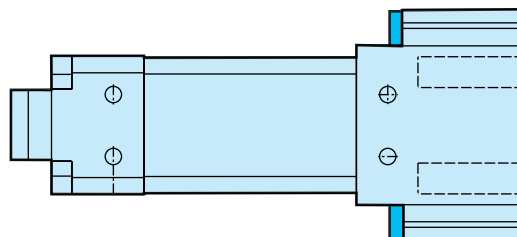
RSA/RSM12: REVERSE PARALLEL MOTOR MOUNTING

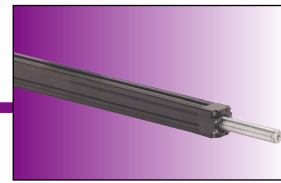


SPECIFICATIONS

MOTOR	REDUCTION INERTIA AT MOTOR SHAFT	
	I : I	
	lb-in ²	kg-cm ²
BRUSHLESS MRV11	.037	.1083
MRV21, 22, 23, 24	.037	.1083

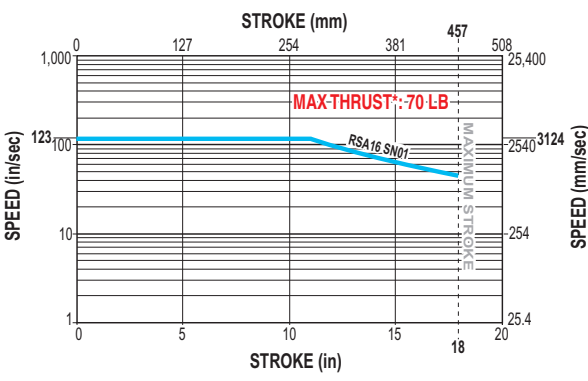
REDUCTION EFFICIENCY: 0.95



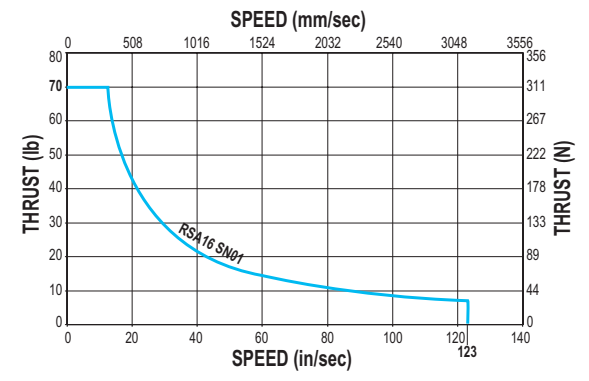


RSA16 ACME SCREW CRITICAL SPEED AND PV LIMITS

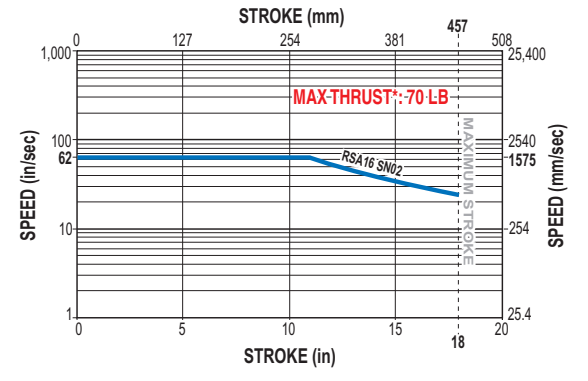
CRITICAL SPEED WITH 0.375" 1TPI ENGLISH ACME SCREW



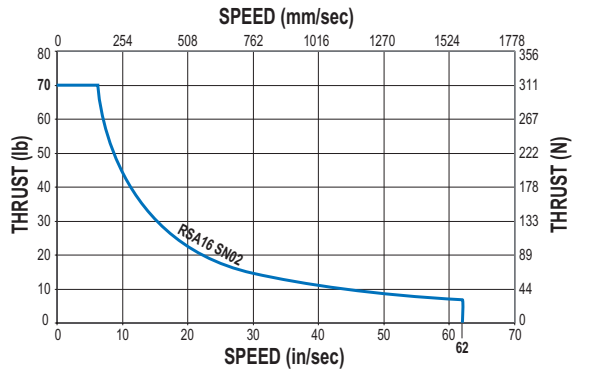
PV LIMITS: 0.375" 1TPI ENGLISH ACME SCREW



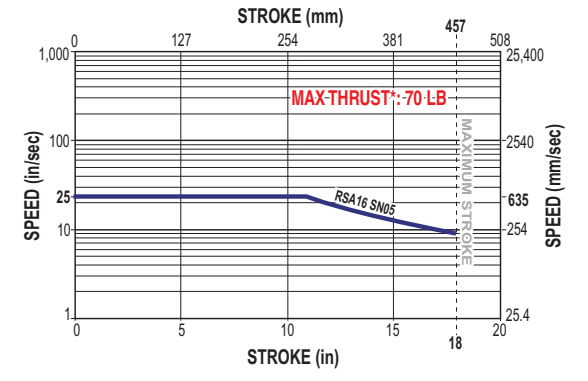
CRITICAL SPEED WITH 0.375" 2TPI ENGLISH ACME SCREW



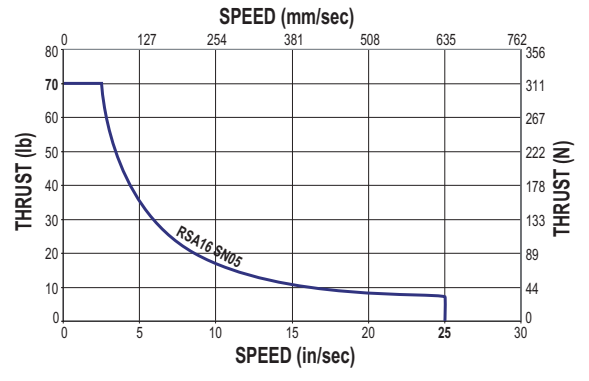
PV LIMITS: 0.375" 2TPI ENGLISH ACME SCREW



CRITICAL SPEED WITH 0.375" 5TPI ENGLISH ACME SCREW



PV LIMITS: 0.375" 5TPI ENGLISH ACME SCREW



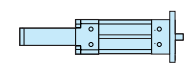
SN = Solid Nut



** Maximum thrust is the maximum continuous dynamic thrust subject to Thrust x Velocity limitation.*

PV LIMITS: Any material which carries a sliding load is limited by heat buildup. The factors that affect heat generation rate in an application are the pressure on the nut in pounds per square inch and the surface velocity in feet per minute. The product of these factors provides a measure of the severity of an application.

$$P = \frac{\text{Thrust}}{\text{Max. Thrust Rating}} \times V = \frac{\text{Speed}}{\text{Max. Speed Rating}} \leq 0.1$$



ROD SCREW

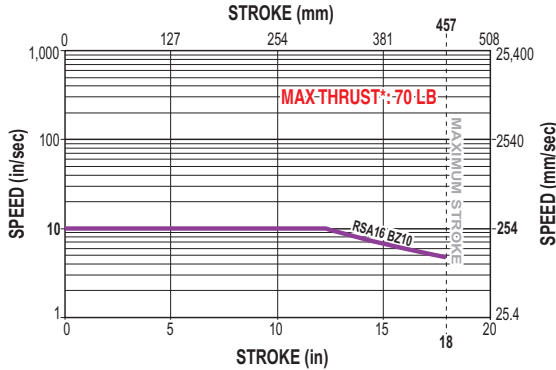
RSA/RSM16 Series
• Acme screw critical speed and PV limits

Axi-dyne® RSA/RSM16 Series

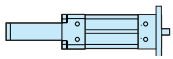
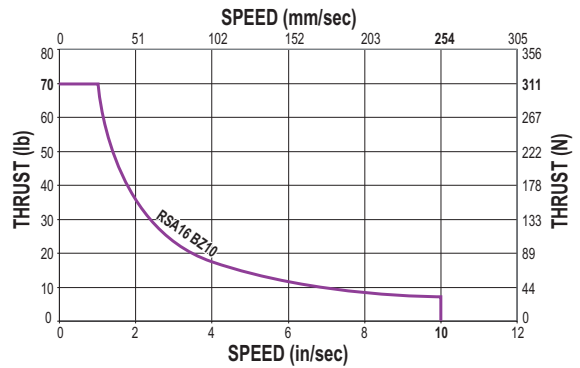
ACME AND BALL SCREW SPECIFICATIONS

RSA16 ACME SCREW CRITICAL SPEED AND PV LIMITS (continued)

CRITICAL SPEED WITH 0.375" 10TPI ENGLISH ACME SCREW



PV LIMITS: 0.375" 10TPI ENGLISH ACME SCREW



ROD SCREW

RSA/RSM16 Series

- Acme screw critical speed and PV limits
- Ball screw critical speed and life calculations

BZ = Bronze Nut



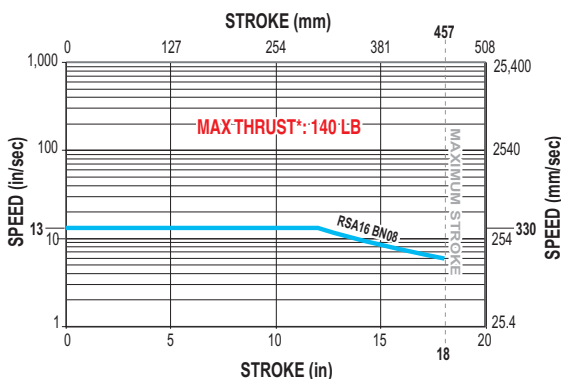
* *Maximum thrust is the maximum continuous dynamic thrust subject to Thrust x Velocity limitation.*

PV LIMITS: Any material which carries a sliding load is limited by heat buildup. The factors that affect heat generation rate in an application are the pressure on the nut in pounds per square inch and the surface velocity in feet per minute. The product of these factors provides a measure of the severity of an application.

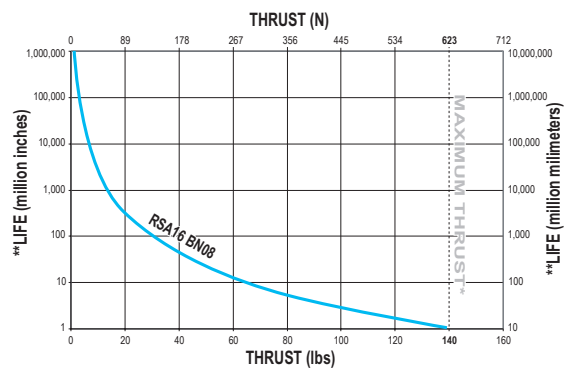
$$P = \frac{\text{Thrust}}{\text{Max. Thrust Rating}} \times V = \frac{\text{Speed}}{\text{Max. Speed Rating}} \leq 0.1$$

RSA16 BALL SCREW CRITICAL SPEED AND LIFE CALCULATIONS

CRITICAL SPEED WITH 0.375" 8TPI ENGLISH BALL SCREW



LIFE CALCULATION: 0.375" 8TPI ENGLISH BALL SCREW



BN = Ball Nut



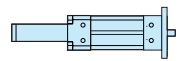
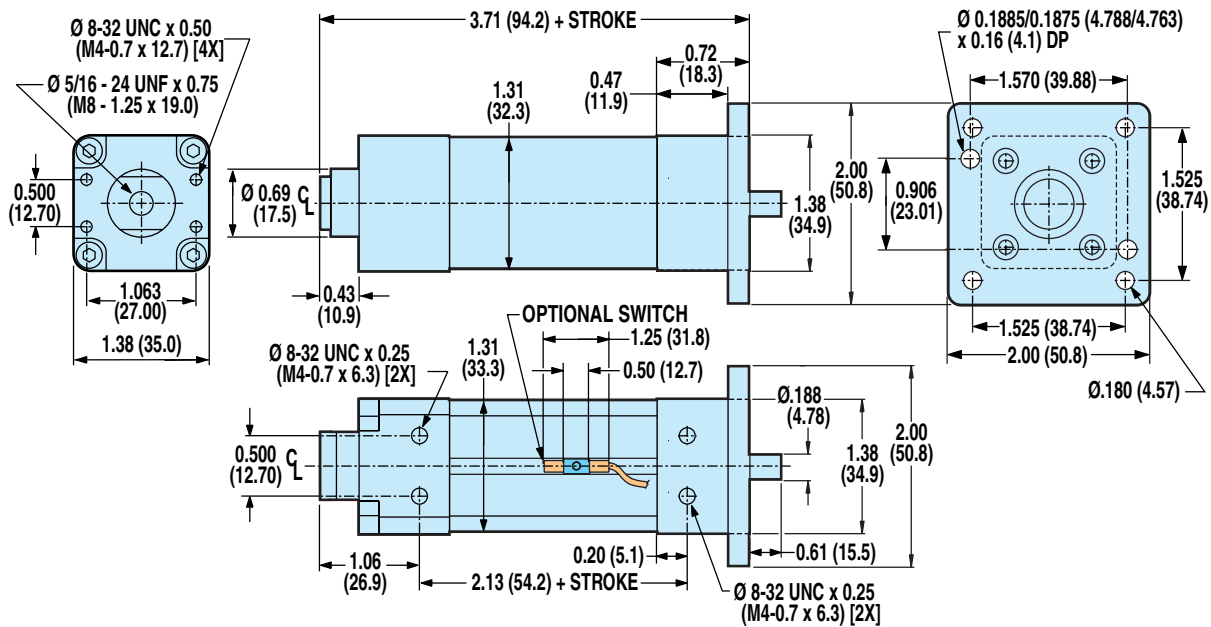
* *Maximum thrust reflects 90% reliability for 1 million linear inches of travel.*

** *Life indicates theoretical maximum life of screw only, under ideal conditions and does not indicate expected life of actuator.*

Axi-dyne® RSA/RSMI6 Series

DIMENSIONS

RSA/RSMI6 IN-LINE (LMI) BASE MODEL OPTIONS AND SWITCH MOUNTING

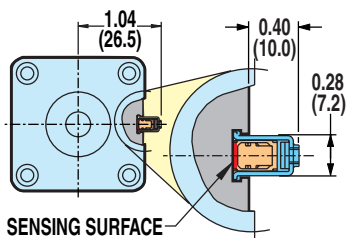


ROD SCREW

RSA/RSMI6 Series

- In-line (LMI) base model dimensions

OPTIONAL SWITCH MOUNTING ⚠️Ⓜ️

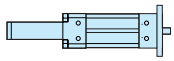


- ⚠️ **CAUTION: DO NOT OVERTIGHTEN SWITCH HARDWARE WHEN INSTALLING**
- Ⓜ️ **NOTE: The scored face of the switch indicates the sensing surface and must face toward the magnet**

Axi^{dyne}® RSA/RSM16 Series

DIMENSIONS

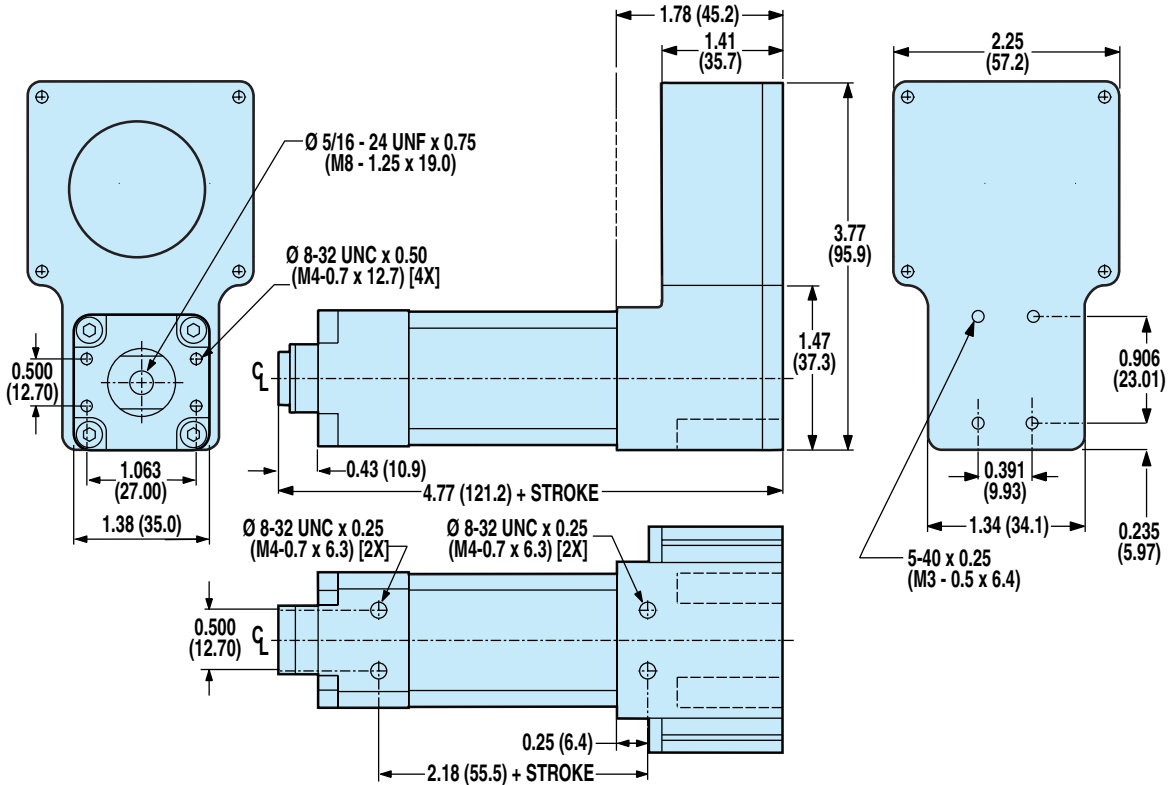
RSA/RSM16 REVERSE PARALLEL (RP) BASE MODEL OPTIONS AND SWITCH MOUNTING



ROD SCREW

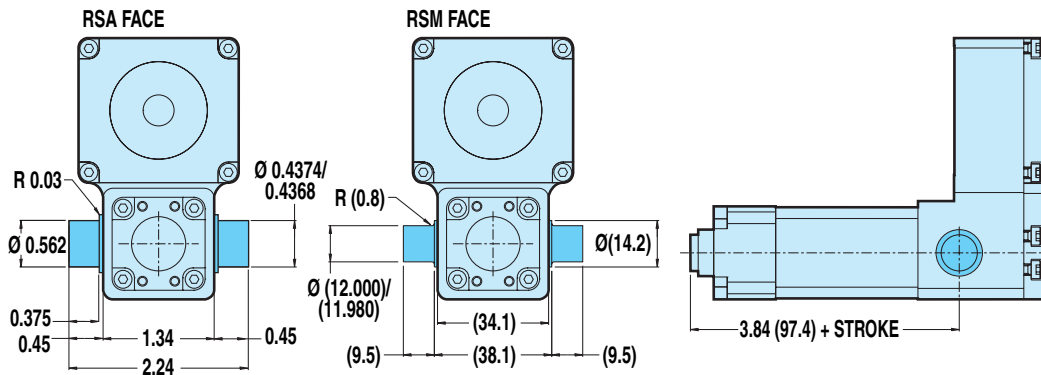
RSA/RSM16 Series

- Reverse parallel base model options and switch mounting

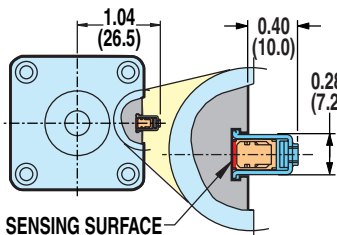


OPTIONAL TRUNNION MOUNT: TRN

⚠ TRUNNION MOUNTS ARE NOT FIELD RETROFITTABLE AND MUST BE CONFIGURED AS PART OF THE BASE ACTUATOR. CONTACT THE FACTORY FOR ADDITIONAL INFORMATION.



OPTIONAL SWITCH MOUNTING ¹⚠ ²



⚠ CAUTION: DO NOT OVERTIGHTEN SWITCH HARDWARE WHEN INSTALLING

Ⓜ NOTE: The scored face of the switch indicates the sensing surface and must face toward the magnet

Unless otherwise noted, all dimensions shown are in inches (Dimensions in parenthesis are in millimeters)

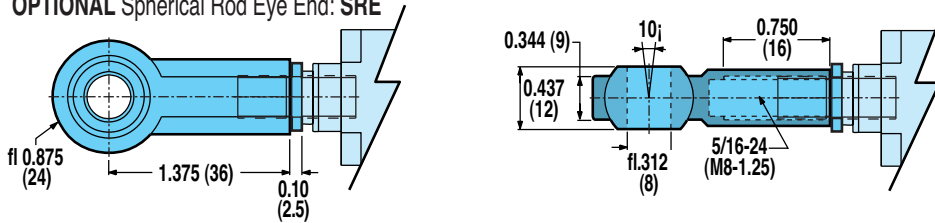
Axi-dyne® RSA/RSM16 Series

DIMENSIONS

RSA/RSM16 RETROFITTABLE ROD END OPTIONS

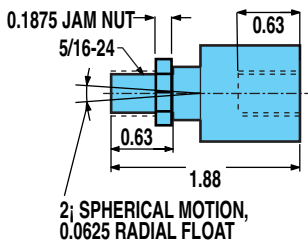
FOR IN-LINE (LMI) OR REVERSE PARALLEL (RP) MODELS

OPTIONAL Spherical Rod Eye End: SRE

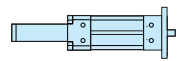
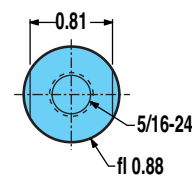
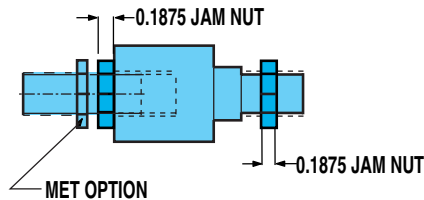


OPTIONAL Alignment Coupler Rod End: ALC

INTERNALLY THREADED END SPECIFIED



EXTERNALLY THREADED END SPECIFIED



ROD SCREW

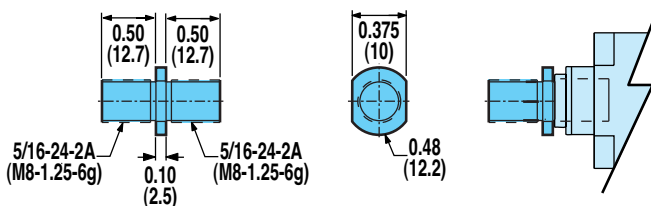
RSA/RSM16 Series

- Retrofittable rod end options

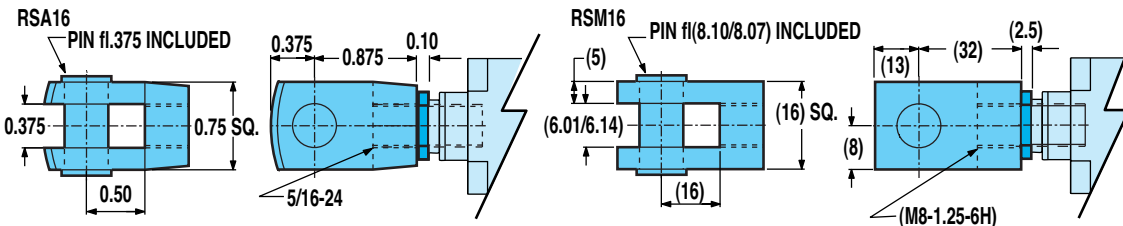
! THE ALIGNMENT COUPLER COMES WITH AN INTERNAL THREAD. IF AN EXTERNAL THREAD IS PREFERRED, THE ADDITION OF THE "MET" OPTION IS REQUIRED.

NOT AVAILABLE ON THE RSM16 METRIC MODEL.

OPTIONAL External Threaded Rod End: MET



OPTIONAL Clevis Rod End: CLV



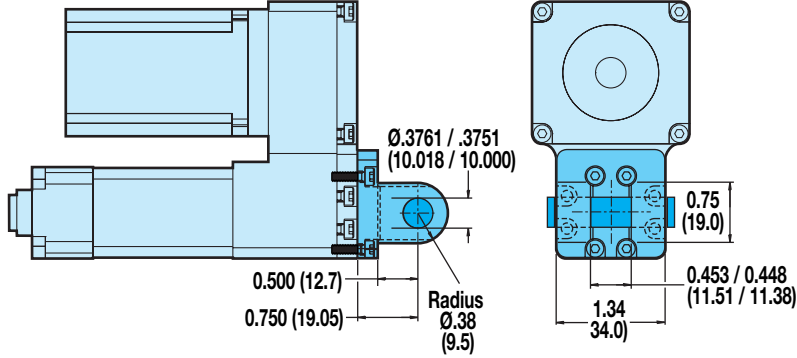
Axi dyne® RSA/RSM16 Series

DIMENSIONS

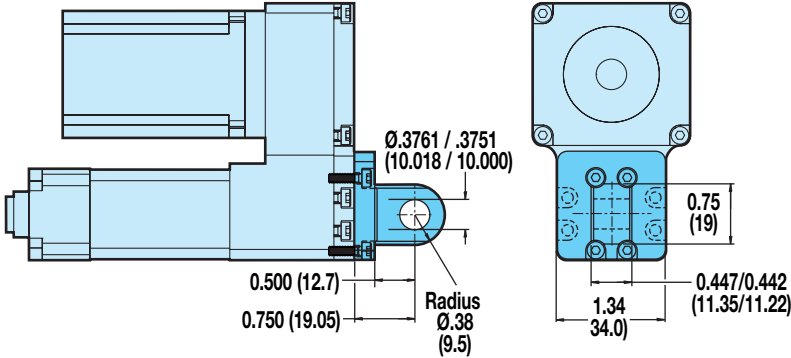
RSA/RSM16 RETROFITTABLE MOUNTING OPTIONS

FOR REVERSE PARALLEL (RP) MODELS ONLY

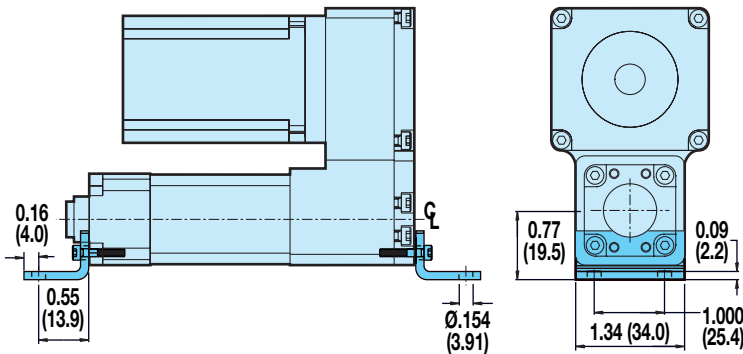
OPTIONAL Clevis Mount: PCD (for use on RP models only)



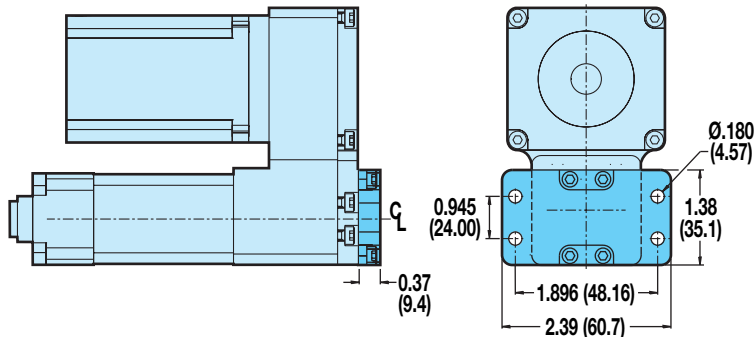
OPTIONAL Eye Mount: PCS



OPTIONAL Foot Mount: FM2

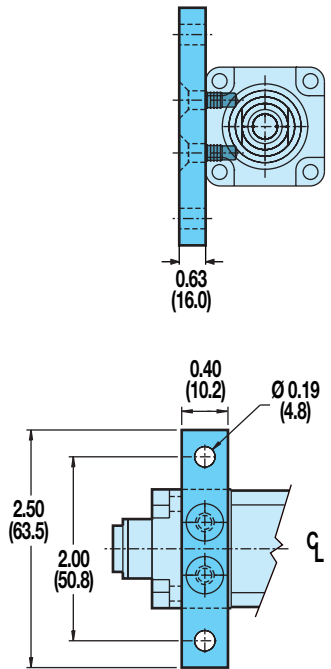


OPTIONAL Back Flange: BFG

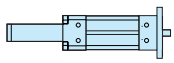
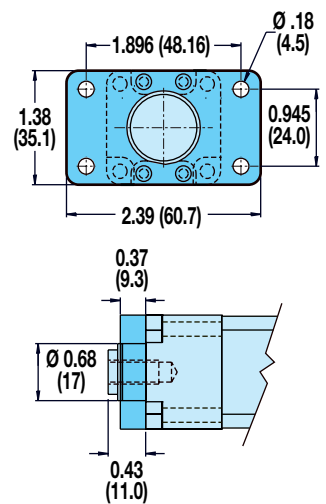


FOR IN-LINE (LMI) OR REVERSE PARALLEL (RP) MODELS

OPTIONAL Mounting Plate: MP2



OPTIONAL Front Flange Mount: FFG



ROD SCREW

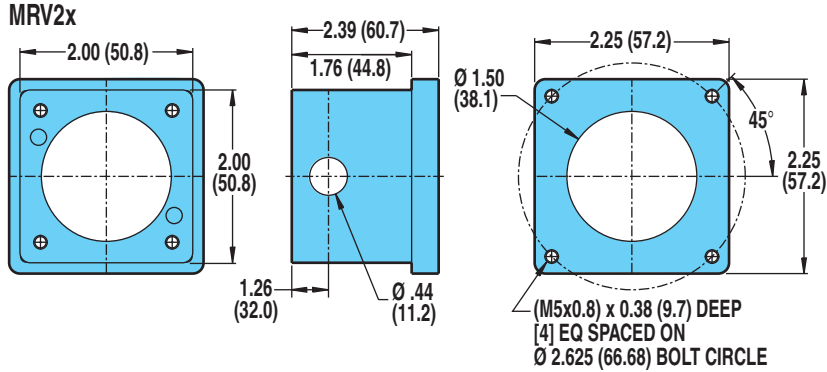
RSA/RSM16 Series

- Retrofittable mounting options

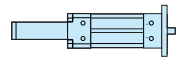
Axi dyne® RSA/RSM16 Series

DIMENSIONS

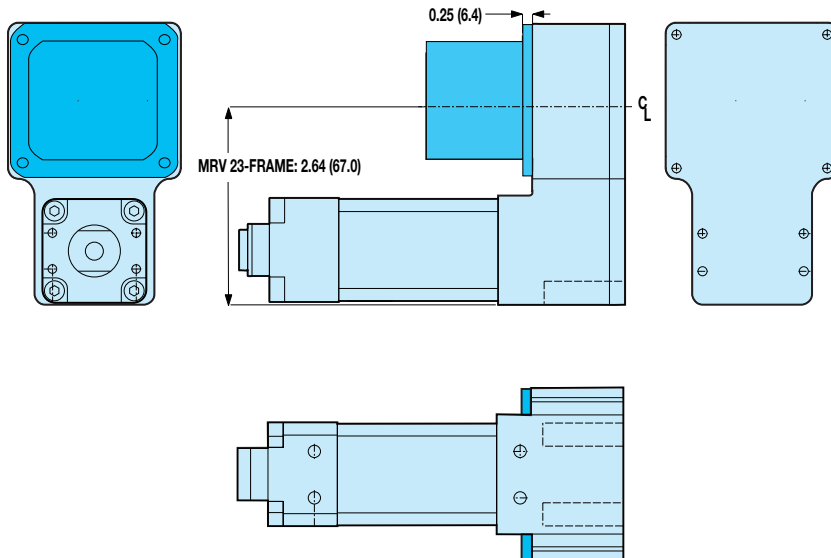
RSA/RSM16: IN-LINE MOTOR MOUNTING



Gearheads are not available for the RSA/RSM16



RSA/RSM16: REVERSE PARALLEL MOTOR MOUNTING



SPECIFICATIONS

MOTOR	REDUCTION INERTIA AT MOTOR SHAFT	
	I:I	
	lb-in ²	kg-cm ²
BRUSHLESS MRV21, 22, 23, 24	.037	.1083

REDUCTION EFFICIENCY: 0.95

ROD SCREW

RSA/RSM16 Series

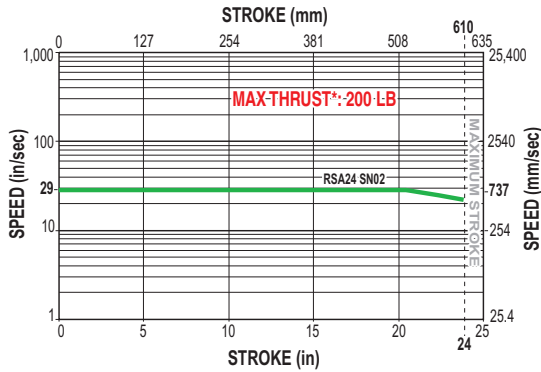
- In-line motor mounting
- Reverse parallel motor mounting



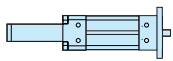
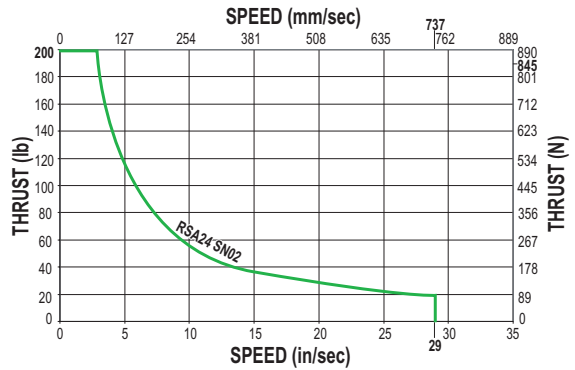
Axi-dyne® RSA/RSM24 Series ACME SCREW SPECIFICATIONS

RSA24 ACME SCREW CRITICAL SPEED AND PV LIMITS

CRITICAL SPEED WITH 0.625" 2TPI ENGLISH ACME SCREW



PV LIMITS: 0.625" 2TPI ENGLISH ACME SCREW

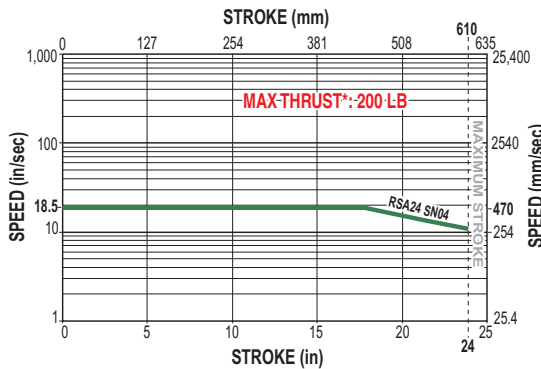


ROD SCREW

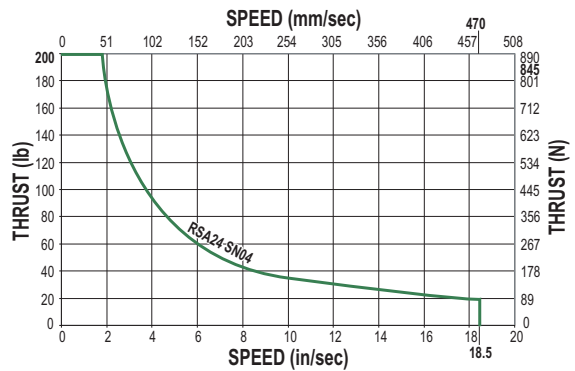
RSA/RSM24 Series

- Acme screw critical speed and PV limits

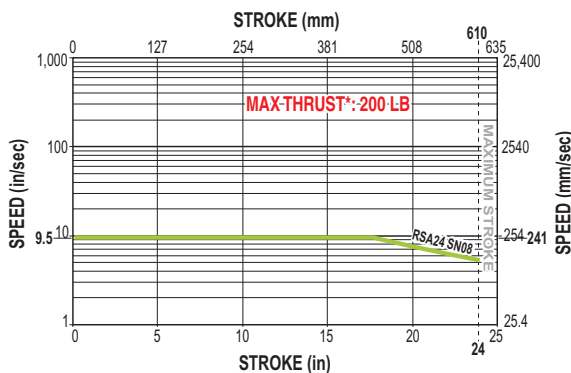
CRITICAL SPEED WITH 0.625" 4TPI ENGLISH ACME SCREW



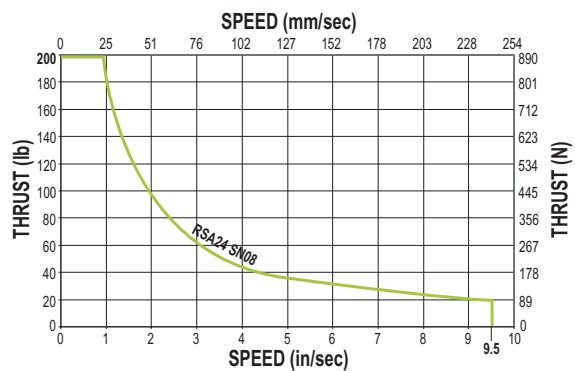
PV LIMITS: 0.625" 4TPI ENGLISH ACME SCREW



CRITICAL SPEED WITH 0.625" 8TPI ENGLISH ACME SCREW



PV LIMITS: 0.625" 8TPI ENGLISH ACME SCREW



SN = Solid Nut



* *Maximum thrust is the maximum continuous dynamic thrust subject to Thrust x Velocity limitation.*

PV LIMITS: Any material which carries a sliding load is limited by heat buildup. The factors that affect heat generation rate in an application are the pressure on the nut in pounds per square inch and the surface velocity in feet per minute. The product of these factors provides a measure of the severity of an application.

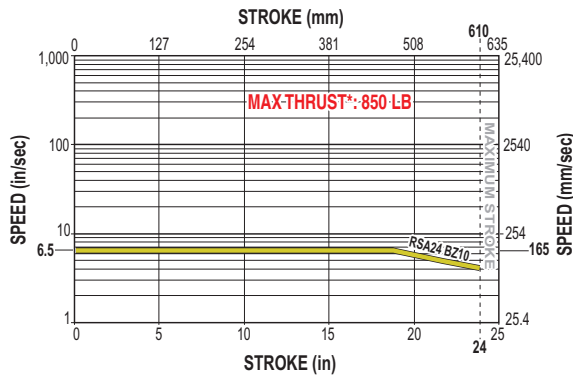
$$P = \frac{\text{Thrust}}{\text{Max. Thrust Rating}} \times V = \frac{\text{Speed}}{\text{Max. Speed Rating}} \leq 0.1$$

Axi-dyne® RSA/RSM24 Series

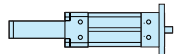
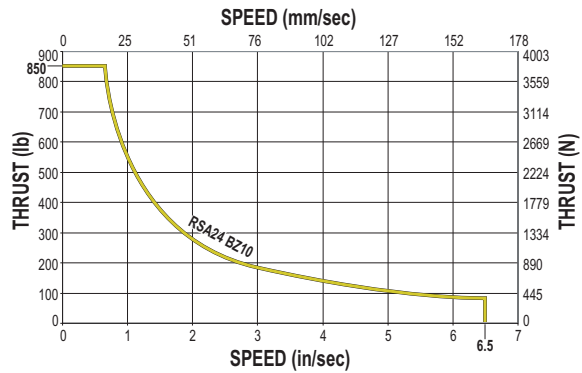
ACME AND BALL SCREW SPECIFICATIONS

RSA24 ACME SCREW CRITICAL SPEED AND PV LIMITS (continued)

CRITICAL SPEED WITH 0.625" 10TPI ENGLISH ACME SCREW



PV LIMITS: 0.625" 10TPI ENGLISH ACME SCREW



ROD SCREW

RSA/RSM24 Series

- Acme screw critical speed and PV limits
- Ball screw critical speed and life calculations

BZ = Bronze Nut



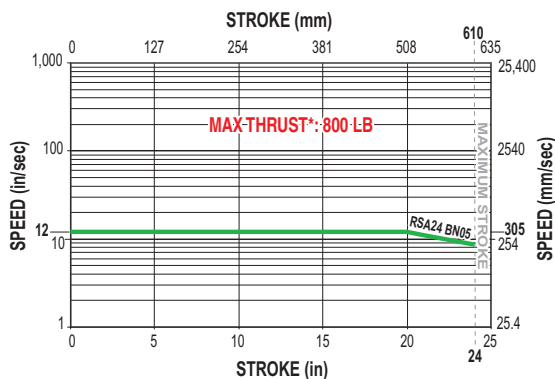
* *Maximum thrust is the maximum continuous dynamic thrust subject to Thrust x Velocity limitation.*

PV LIMITS: Any material which carries a sliding load is limited by heat buildup. The factors that affect heat generation rate in an application are the pressure on the nut in pounds per square inch and the surface velocity in feet per minute. The product of these factors provides a measure of the severity of an application.

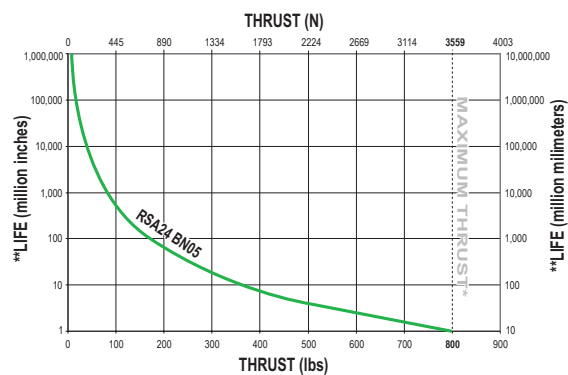
$$P = \frac{\text{Thrust}}{\text{Max. Thrust Rating}} \times V = \frac{\text{Speed}}{\text{Max. Speed Rating}} \leq 0.1$$

RSA24 BALL SCREW CRITICAL SPEED AND LIFE CALCULATIONS

CRITICAL SPEED WITH 0.625" 5TPI ENGLISH BALL SCREW



LIFE CALCULATION: 0.625" 5TPI ENGLISH BALL SCREW



BN = Ball Nut



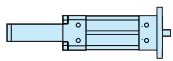
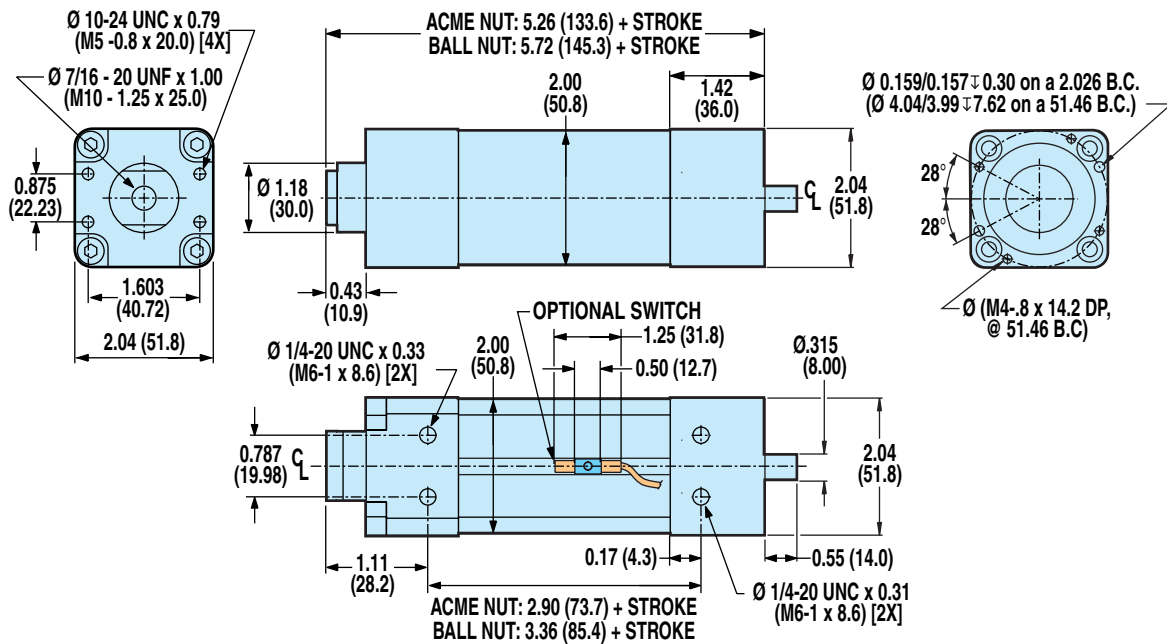
* *Maximum thrust reflects 90% reliability for 1 million linear inches of travel.*

***Life indicates theoretical maximum life of screw only, under ideal conditions and does not indicate expected life of actuator.*

Axi dyne® RSA/RSM24 Series

DIMENSIONS

RSA/RSM24 IN-LINE (LMI) BASE MODEL OPTIONS AND SWITCH MOUNTING



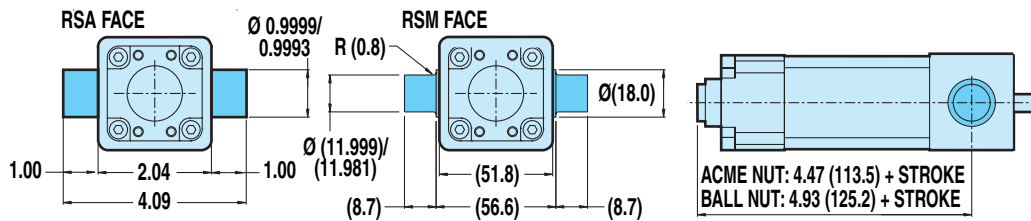
ROD SCREW

RSA/RSM24 Series

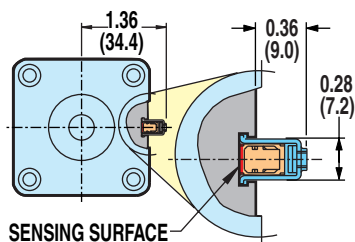
- In-line base model and switch mounting dimensions

OPTIONAL TRUNNION MOUNT: TRN

! TRUNNION MOUNTS ARE NOT FIELD RETROFITTABLE AND MUST BE CONFIGURED AS PART OF THE BASE ACTUATOR. CONTACT THE FACTORY FOR ADDITIONAL INFORMATION.



OPTIONAL SWITCH MOUNTING **!** **Ⓜ**



! CAUTION: DO NOT OVERTIGHTEN SWITCH HARDWARE WHEN INSTALLING

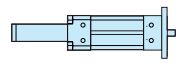
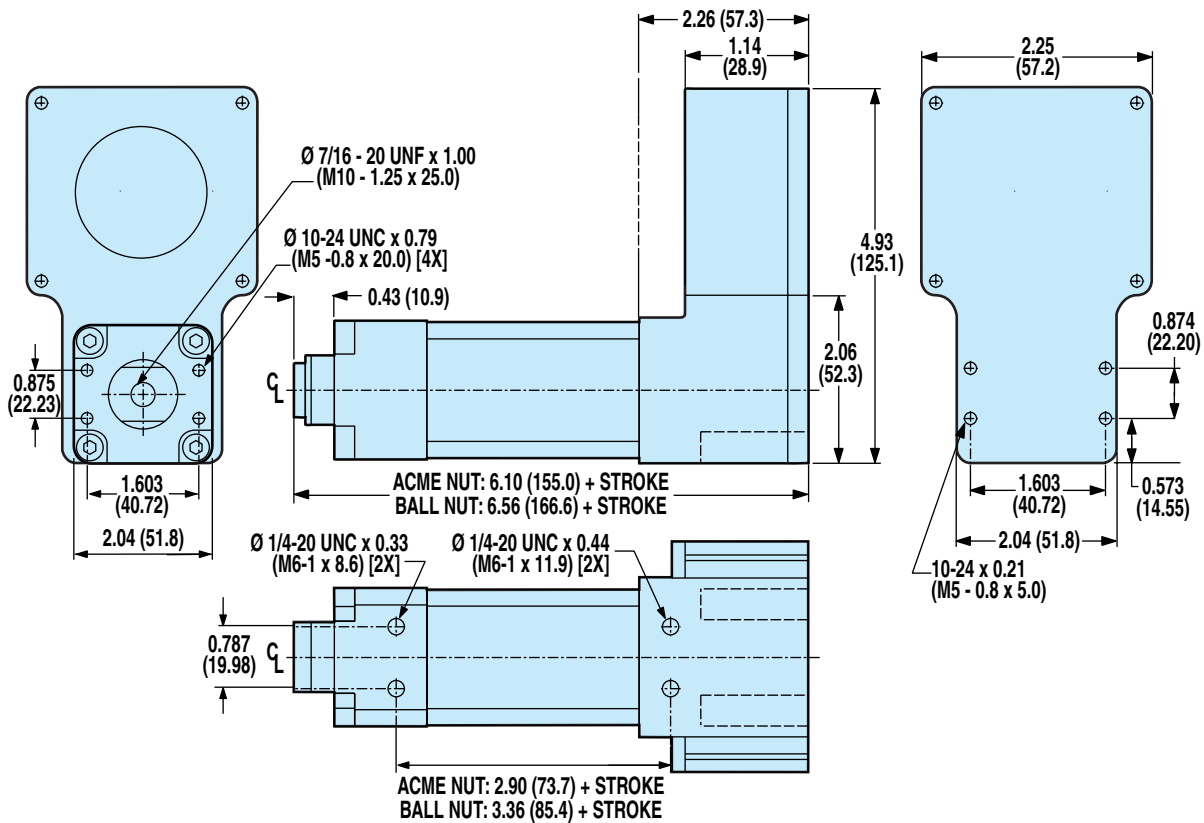
Ⓜ NOTE: The scored face of the switch indicates the sensing surface and must face toward the magnet

Unless otherwise noted, all dimensions shown are in inches (Dimensions in parenthesis are in millimeters)

Axi-dyne® RSA/RSM24 Series

DIMENSIONS

RSA/RSM24 REVERSE PARALLEL (RP) BASE MODEL OPTIONS AND SWITCH MOUNTING



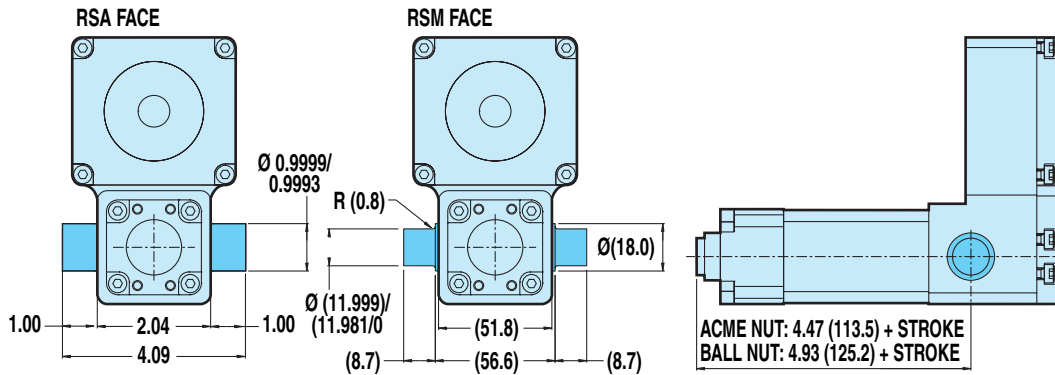
ROD SCREW

RSA/RSM24 Series

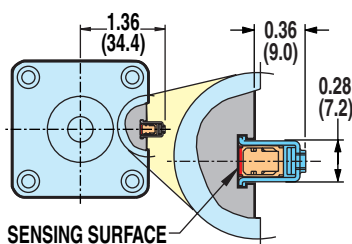
- Reverse parallel base model dimensions

OPTIONAL TRUNNION MOUNT: TRN

⚠ TRUNNION MOUNTS ARE NOT FIELD RETROFITTABLE AND MUST BE CONFIGURED AS PART OF THE BASE ACTUATOR. CONTACT THE FACTORY FOR ADDITIONAL INFORMATION.



OPTIONAL SWITCH MOUNTING



⚠ CAUTION: DO NOT OVERTIGHTEN SWITCH HARDWARE WHEN INSTALLING

Ⓢ NOTE: The scored face of the switch indicates the sensing surface and must face toward the magnet

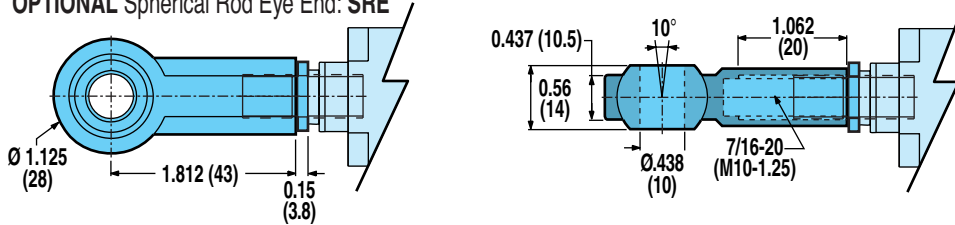
Axi dyne® RSA/RSM24 Series

DIMENSIONS

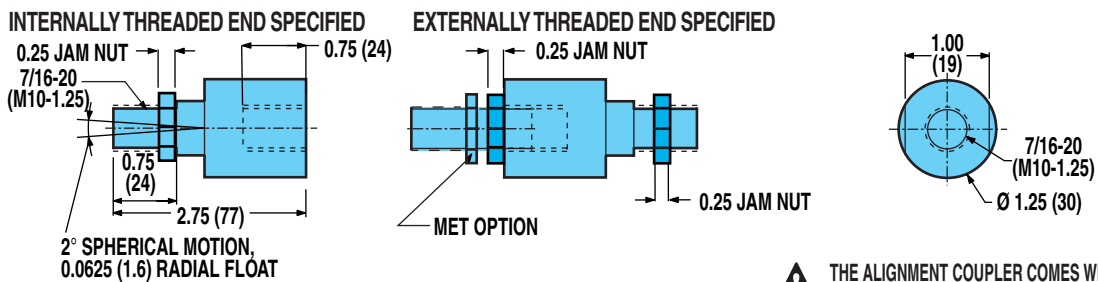
RSA/RSM24 RETROFITTABLE ROD END OPTIONS

FOR IN-LINE (LMI) OR REVERSE PARALLEL (RP) MODELS

OPTIONAL Spherical Rod Eye End: SRE

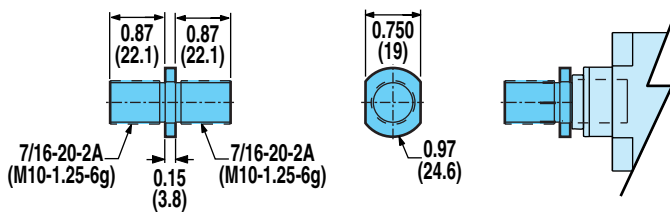


OPTIONAL Alignment Coupler Rod End: ALC

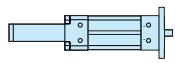
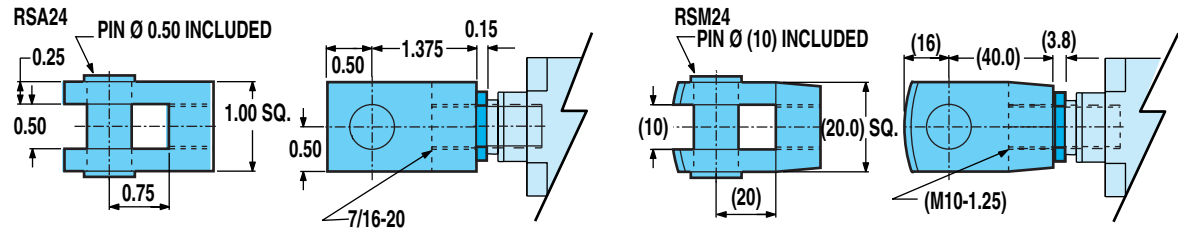


! THE ALIGNMENT COUPLER COMES WITH AN INTERNAL THREAD. IF AN EXTERNAL THREAD IS PREFERRED, THE ADDITION OF THE "MET" OPTION IS REQUIRED.

OPTIONAL External Threaded Rod End: MET



OPTIONAL Clevis Rod End: CLV



ROD SCREW

RSA/RSM24 Series

- Retrofittable rod end options

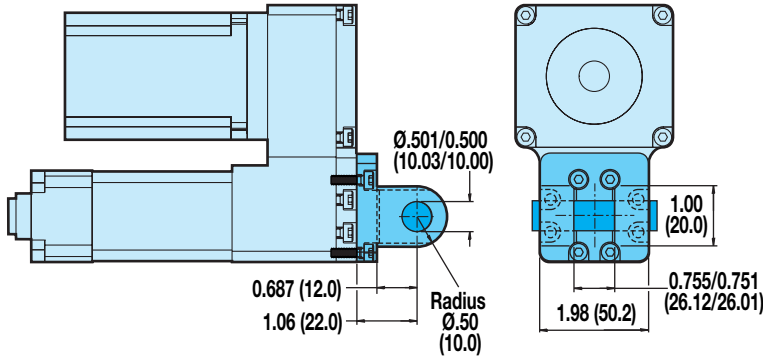
Axi-dyne® RSA/RSM24 Series

DIMENSIONS

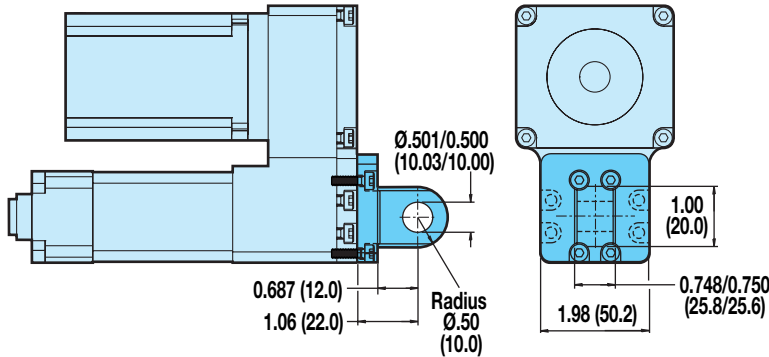
RSA/RSM24 RETROFITTABLE MOUNTING OPTIONS

FOR REVERSE PARALLEL (RP) MODELS ONLY

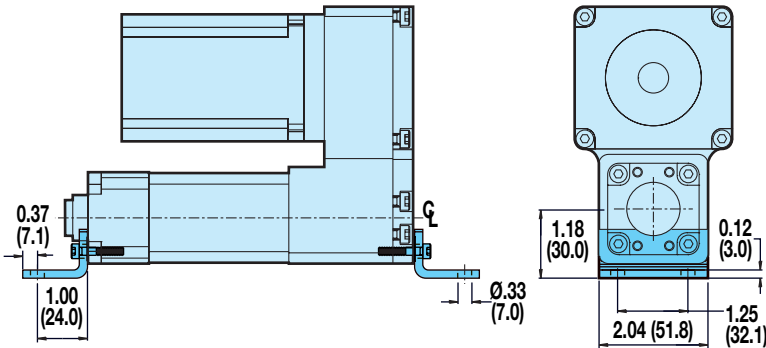
OPTIONAL Clevis Mount: PCD



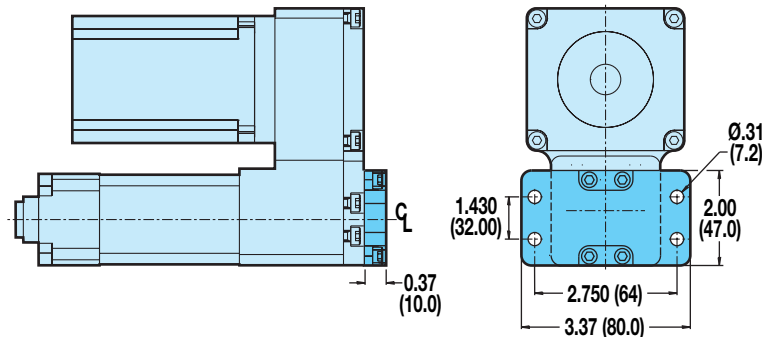
OPTIONAL Eye Mount: PCS



OPTIONAL Foot Mount: FM2

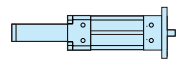
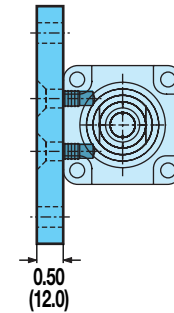


OPTIONAL Back Flange: BFG



FOR IN-LINE (LMI) OR REVERSE PARALLEL (RP) MODELS

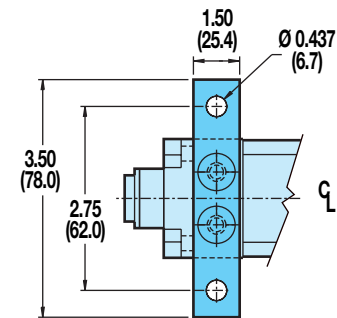
OPTIONAL Mounting Plate: MP2



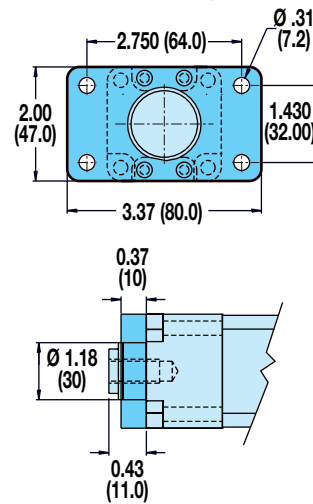
ROD SCREW

RSA/RSM24 Series

- Retrofittable mounting options



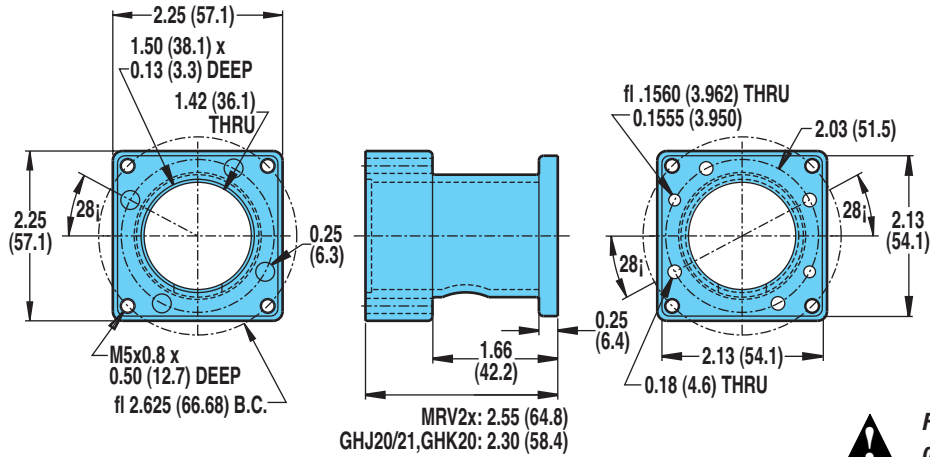
OPTIONAL Front Flange Mount: FFG



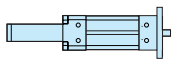
Axi dyne® RSA/RSM24 Series

DIMENSIONS

RSA/RSM24: IN-LINE MOUNTING FOR 23-FRAME MOTORS AND GEARHEADS



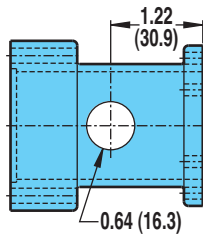
For gearhead specifications and dimensions, see page F-10.



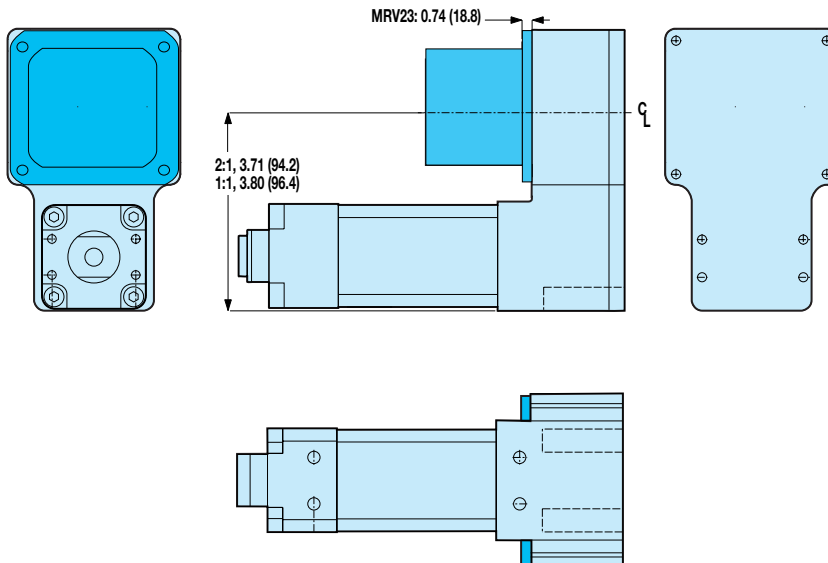
ROD SCREW

RSA/RSM24 Series

- In-line motor mounting
- Reverse parallel motor mounting



RSA/RSM24: REVERSE PARALLEL MOTOR MOUNTING



SPECIFICATIONS

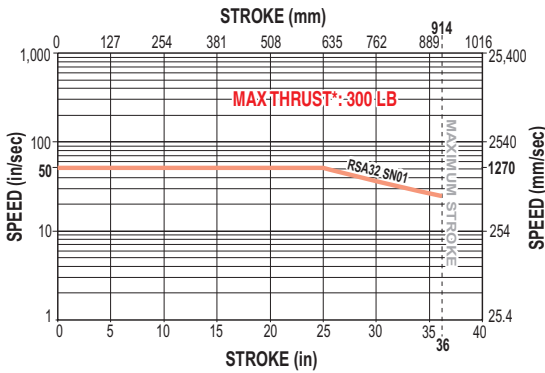
MOTOR	REDUCTION INERTIA AT MOTOR SHAFT			
	1:1		2:1	
	lb-in ²	kg-cm ²	lb-in ²	kg-cm ²
BRUSHLESS MRV21, 22, 23, 24	.007	.0205	.019	.0541

REDUCTION EFFICIENCY: 0.95

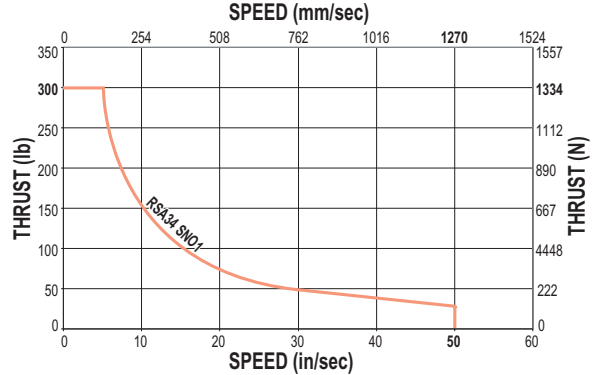


RSA32 ACME SCREW CRITICAL SPEED AND PV LIMITS

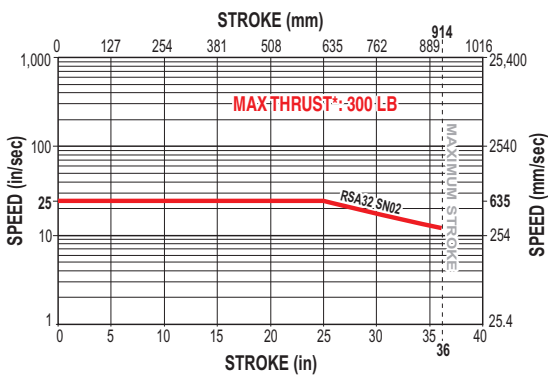
CRITICAL SPEED WITH 0.75" 1TPI ENGLISH ACME SCREW



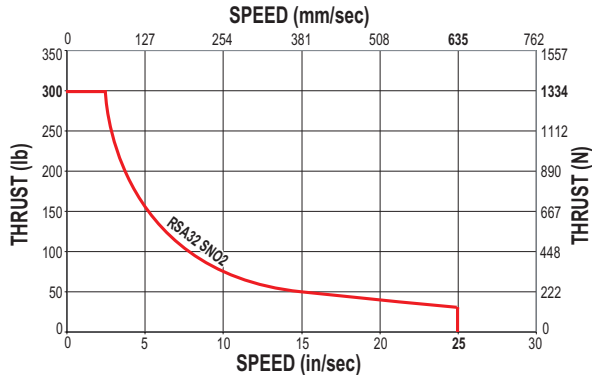
PV LIMITS: 0.75" 1TPI ENGLISH ACME SCREW



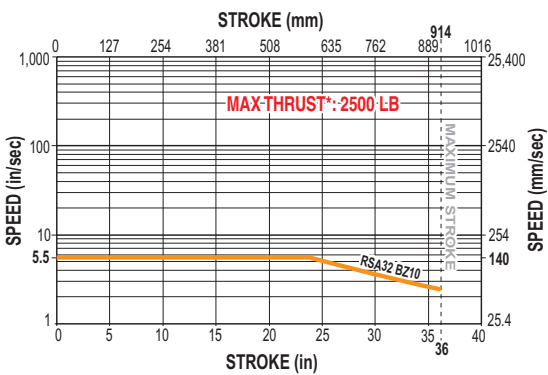
CRITICAL SPEED WITH 0.75" 2TPI ENGLISH ACME SCREW



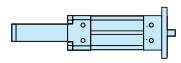
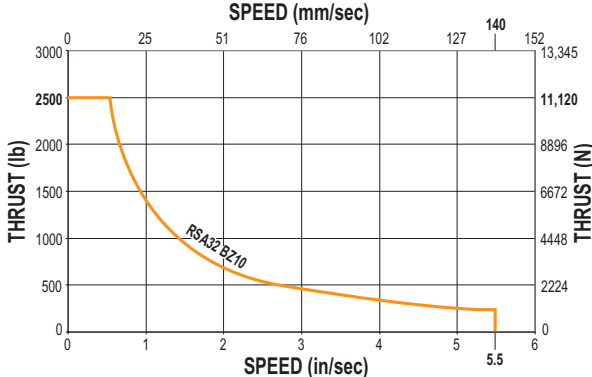
PV LIMITS: 0.75" 2TPI ENGLISH ACME SCREW



CRITICAL SPEED WITH 0.75" 10TPI ENGLISH ACME SCREW



PV LIMITS: 0.75" 10TPI ENGLISH ACME SCREW



ROD SCREW

RSA/RSM32 Series

- Acme screw critical speed and PV limits

SN = Solid Nut BZ= Bronze Nut



* *Maximum thrust is the maximum continuous dynamic thrust subject to Thrust x Velocity limitation.*

PV LIMITS: Any material which carries a sliding load is limited by heat buildup. The factors that affect heat generation rate in an application are the pressure on the nut in pounds per square inch and the surface velocity in feet per minute. The product of these factors provides a measure of the severity of an application.

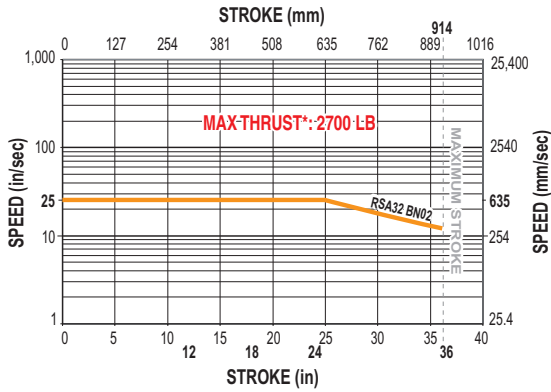
$$P = \frac{\text{Thrust}}{\text{Max. Thrust Rating}} \times V = \frac{\text{Speed}}{\text{Max. Speed Rating}} \leq 0.1$$

Axi dyne® RSA/RSM32 Series

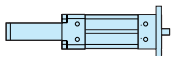
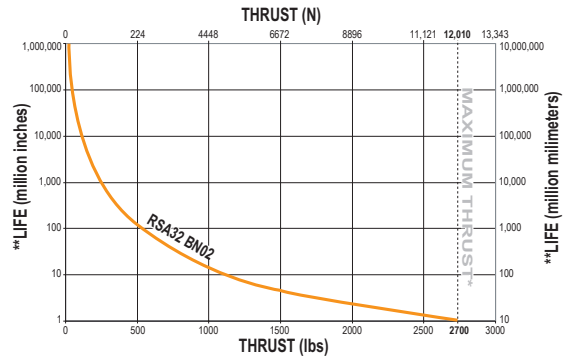
BALL SCREW SPECIFICATIONS

RSA32 BALL SCREW CRITICAL SPEED AND LIFE CALCULATIONS

CRITICAL SPEED WITH 0.75" 2TPI ENGLISH BALL SCREW



LIFE CALCULATION: 0.75" 2TPI ENGLISH BALL SCREW

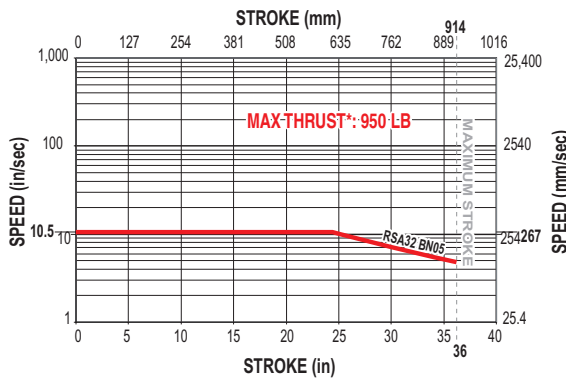


ROD SCREW

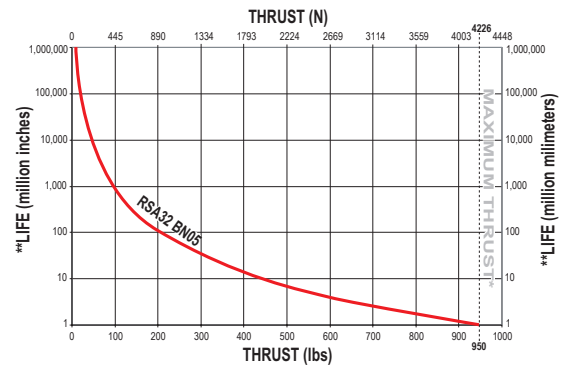
RSA/RSM32 Series

- Ball screw critical speed and life calculations

CRITICAL SPEED WITH 0.75" 5TPI ENGLISH BALL SCREW



LIFE CALCULATION: 0.75" 5TPI ENGLISH BALL SCREW



BN = Ball Nut



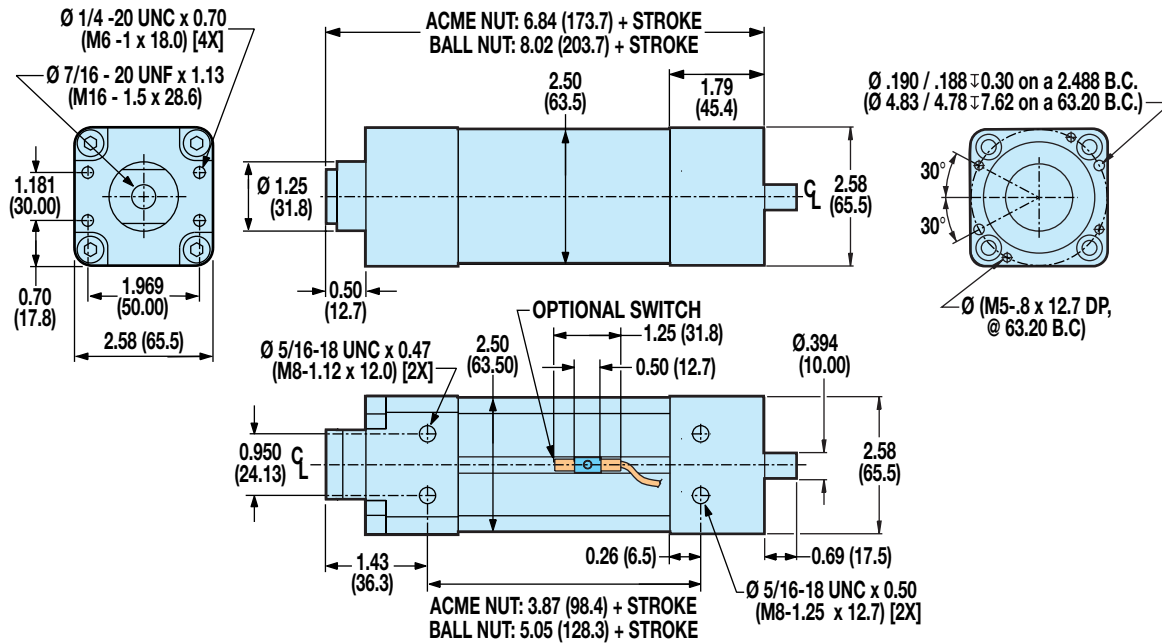
* Maximum thrust reflects 90% reliability for 1 million linear inches of travel.

**Life indicates theoretical maximum life of screw only, under ideal conditions and does not indicate expected life of actuator.

Axi-dyne® RSA/RSM32 Series

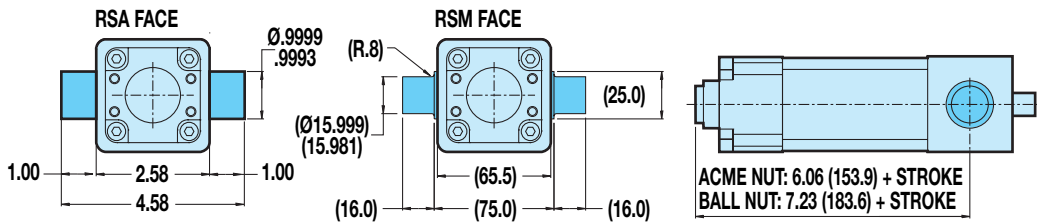
DIMENSIONS

RSA/RSM32 IN-LINE (LMI) BASE MODEL OPTIONS AND SWITCH MOUNTING

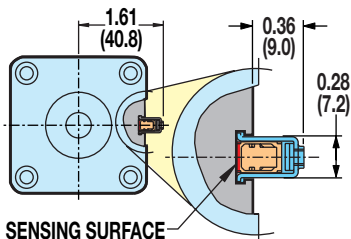


OPTIONAL TRUNNION MOUNT: TRN

⚠ TRUNNION MOUNTS ARE NOT FIELD RETROFITTABLE AND MUST BE CONFIGURED AS PART OF THE BASE ACTUATOR. CONTACT THE FACTORY FOR ADDITIONAL INFORMATION.



OPTIONAL SWITCH MOUNTING **⚠** **Ⓜ**



⚠ CAUTION: DO NOT OVERTIGHTEN SWITCH HARDWARE WHEN INSTALLING

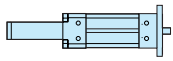
Ⓜ NOTE: The scored face of the switch indicates the sensing surface and must face toward the magnet

Unless otherwise noted, all dimensions shown are in inches (Dimensions in parenthesis are in millimeters)

Axi dyne® RSA/RSM32 Series

DIMENSIONS

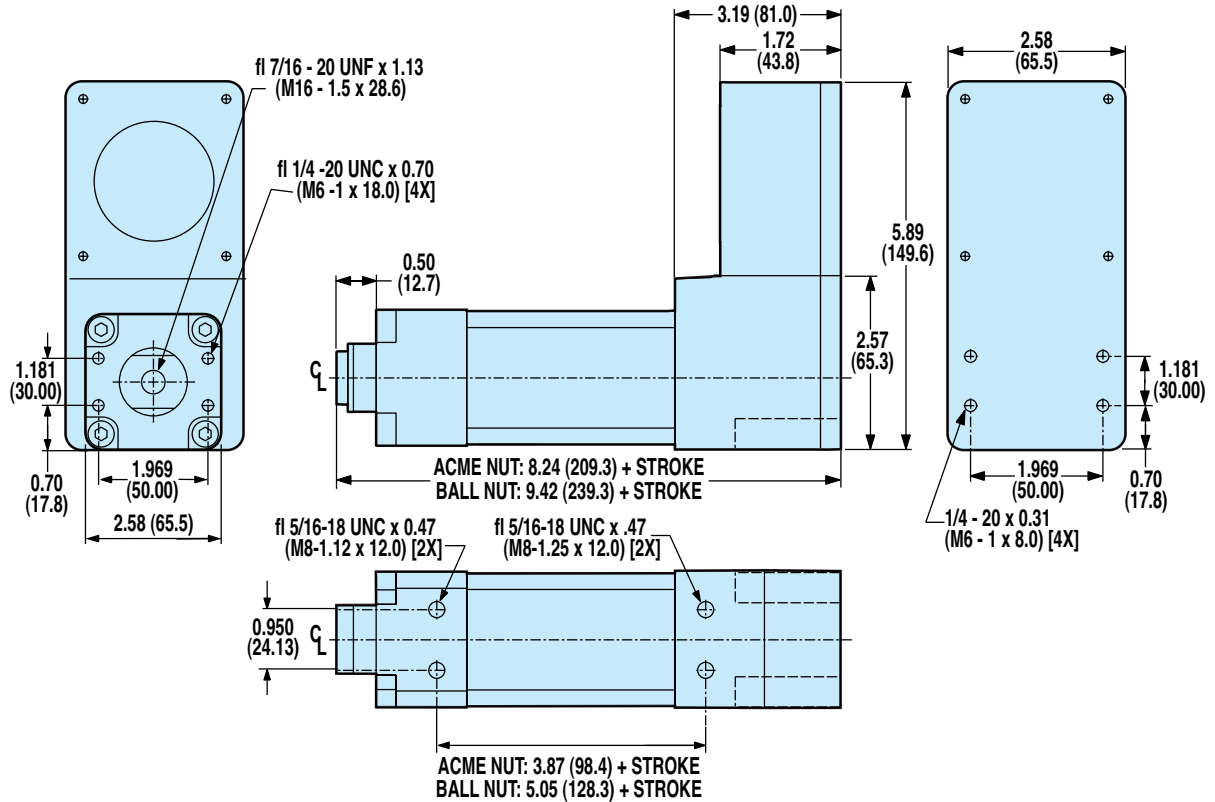
RSA/RSM32 REVERSE PARALLEL (RP) BASE MODEL OPTIONS AND SWITCH MOUNTING



ROD SCREW

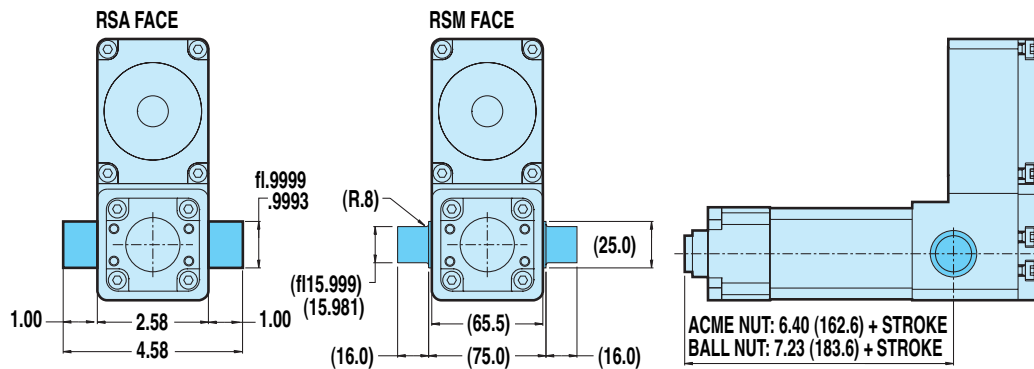
RSA/RSM32 Series

- Reverse parallel base model and switch mounting dimensions

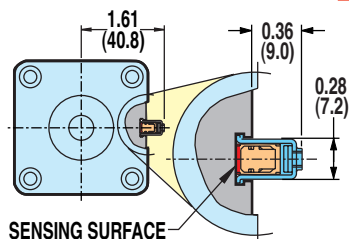


OPTIONAL TRUNNION MOUNT: TRN

- ⚠** TRUNNION MOUNTS ARE NOT FIELD RETROFITTABLE AND MUST BE CONFIGURED AS PART OF THE BASE ACTUATOR. CONTACT THE FACTORY FOR ADDITIONAL INFORMATION.



OPTIONAL SWITCH MOUNTING **⚠** **Ⓜ**



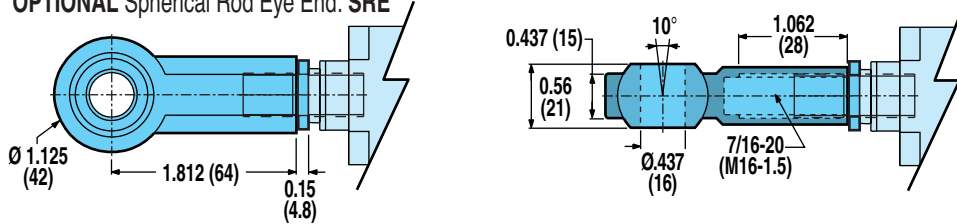
- ⚠** CAUTION: DO NOT OVERTIGHTEN SWITCH HARDWARE WHEN INSTALLING
- Ⓜ** NOTE: The scored face of the switch indicates the sensing surface and must face toward the magnet

DIMENSIONS

RSA/RSM32 RETROFITTABLE ROD END OPTIONS

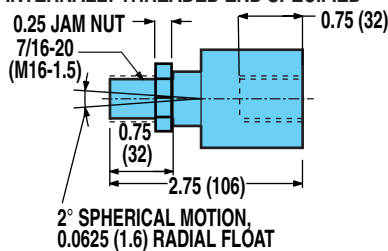
FOR IN-LINE (LMI) OR REVERSE PARALLEL (RP) MODELS

OPTIONAL Spherical Rod Eye End: SRE

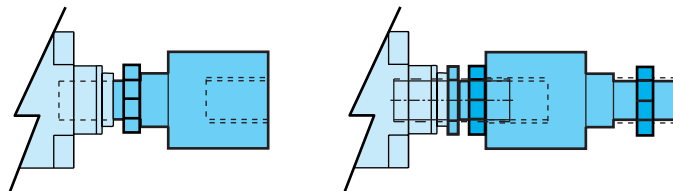
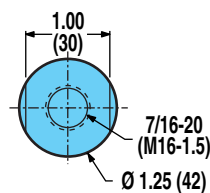
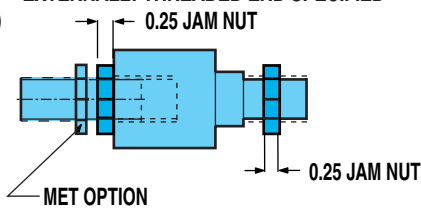


OPTIONAL Alignment Coupler Rod End: ALC

INTERNALLY THREADED END SPECIFIED

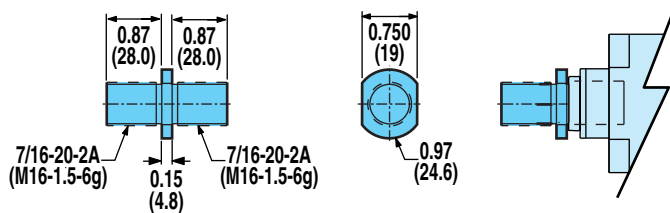


EXTERNALLY THREADED END SPECIFIED



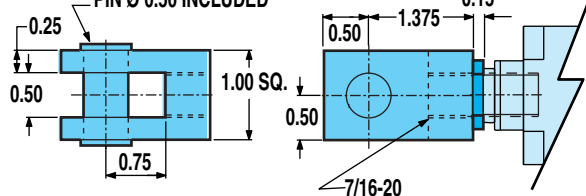
! THE ALIGNMENT COUPLER COMES WITH AN INTERNAL THREAD. IF AN EXTERNAL THREAD IS PREFERRED, THE ADDITION OF THE "MET" OPTION IS REQUIRED.

OPTIONAL External Threaded Rod End: MET

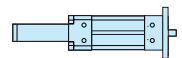
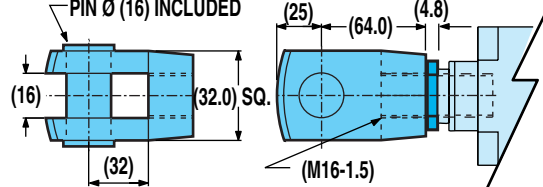


OPTIONAL Clevis Rod End: CLV

RSA32 PIN $\varnothing 0.50$ INCLUDED



RSM32 PIN $\varnothing (16)$ INCLUDED



ROD SCREW

RSA/RSM32 Series

- Retrofittable rod end options dimensions

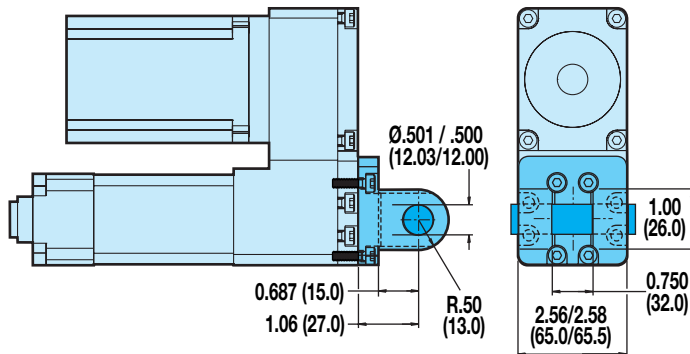
Axi dyne® RSA/RSM32 Series

DIMENSIONS

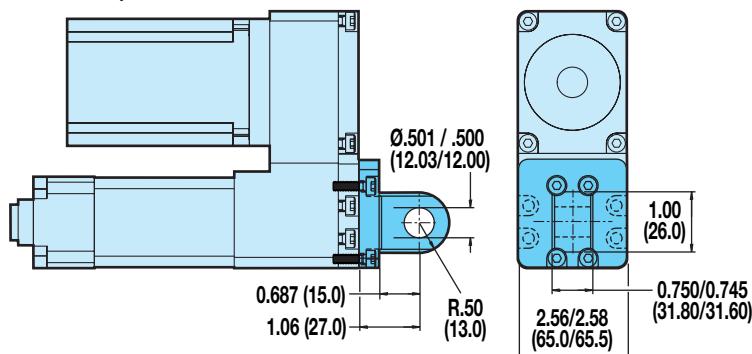
RSA/RSM32 RETROFITTABLE MOUNTING OPTIONS

FOR REVERSE PARALLEL (RP) MODELS ONLY

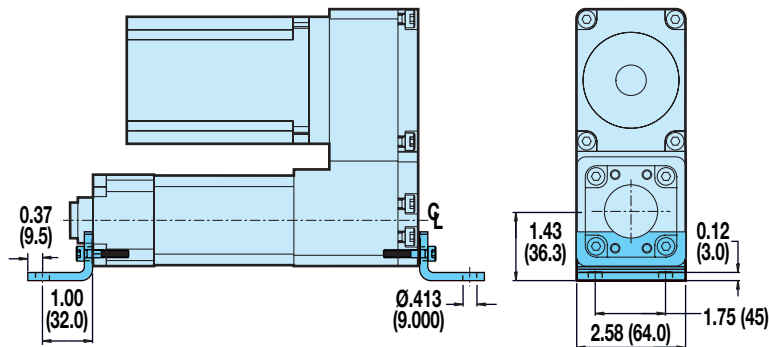
OPTIONAL Clevis Mount: PCD



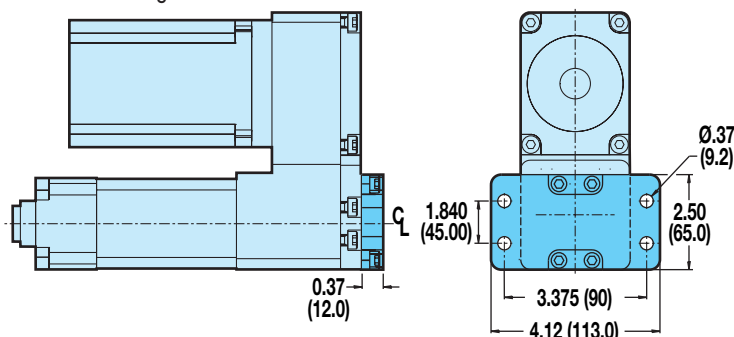
OPTIONAL Eye Mount: PCS



OPTIONAL Foot Mount: FM2

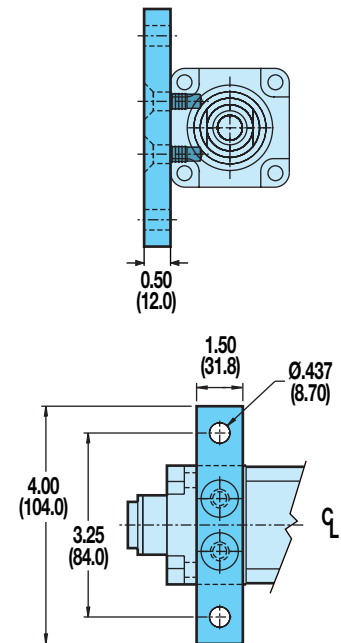


OPTIONAL Back Flange: BFG

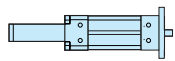
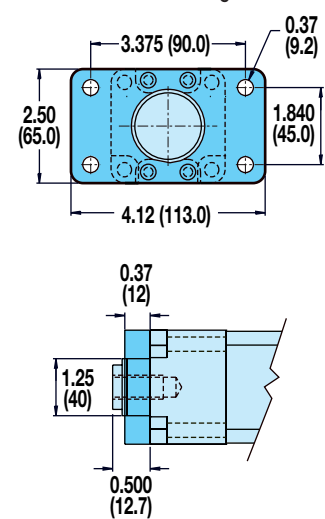


FOR IN-LINE (LMI) OR REVERSE PARALLEL (RP) MODELS

OPTIONAL Mounting Plate: MP2



OPTIONAL Front Flange Mount: FFG



ROD SCREW

RSA/RSM32 Series

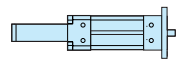
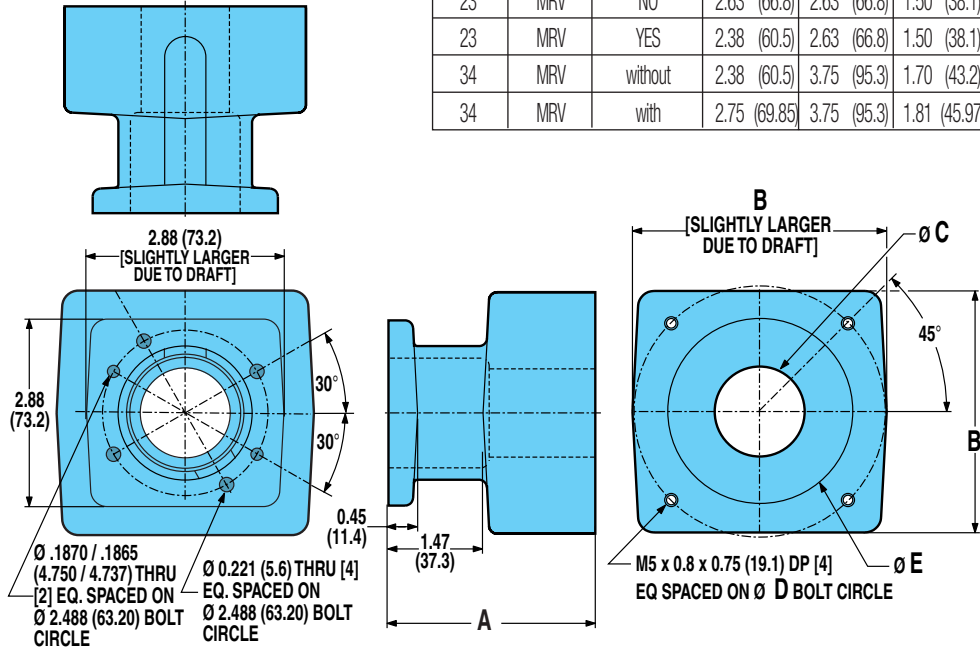
- Retrofittable mounting options dimensions

Axi-dyne® RSA/RSM32 Series

DIMENSIONS

RSA/RSM32: IN-LINE MOUNTING MOTORS AND GEARHEADS

FRAME	MOTOR	GEARHEAD	A	B	C	D	E
			in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
23	MRV	NO	2.63 (66.8)	2.63 (66.8)	1.50 (38.1)	2.625 (66.68)	1.505 (38.23)
23	MRV	YES	2.38 (60.5)	2.63 (66.8)	1.50 (38.1)	2.625 (66.68)	1.505 (38.23)
34	MRV	without	2.38 (60.5)	3.75 (95.3)	1.70 (43.2)	3.875 (98.43)	2.880 (73.15)
34	MRV	with	2.75 (69.85)	3.75 (95.3)	1.81 (45.97)	3.875 (98.46)	2.880 (73.15)



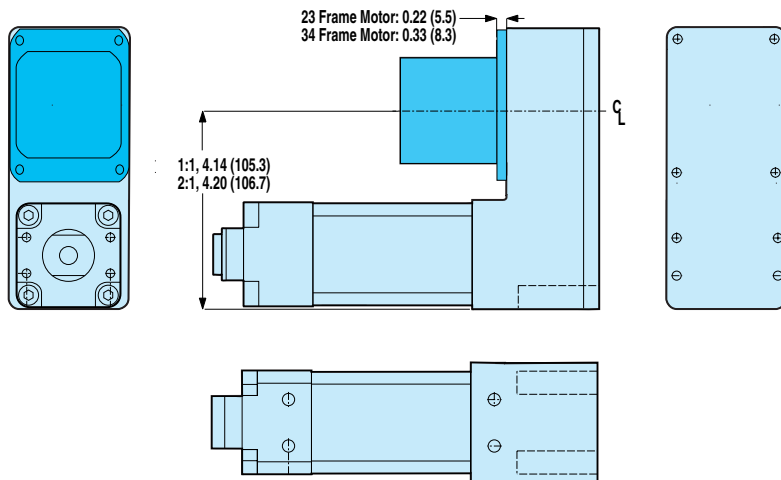
ROD SCREW

RSA/RSM32 Series

- In-line motor mounting
- Reverse parallel motor mounting

! For gearhead specifications and dimensions, see page F-10.

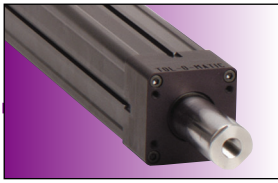
RSA/RSM32: REVERSE PARALLEL MOTOR MOUNTING



SPECIFICATIONS

MOTOR	REDUCTION INERTIA AT MOTOR SHAFT			
	1:1		2:1	
	lb-in ²	kg-cm ²	lb-in ²	kg-cm ²
BRUSHLESS MRV21, 22, 23, 24	.044	.1288	.109	.3175
MRV31, 32, 33	.044	.1288	.109	.3175

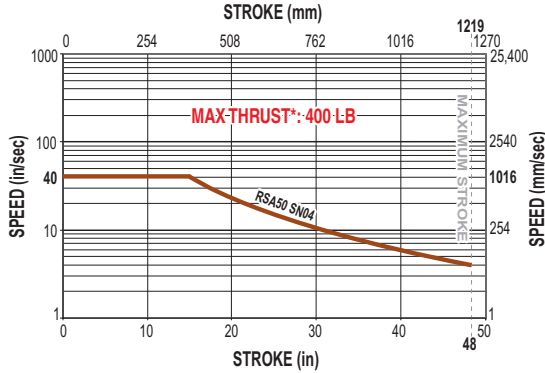
REDUCTION EFFICIENCY: 0.95



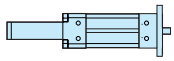
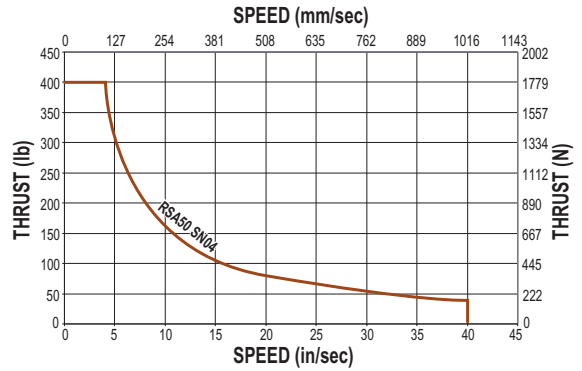
Axi-dyne® RSA/RSM50 Series ACME SCREW SPECIFICATIONS

RSA50 ACME SCREW CRITICAL SPEED AND PV LIMITS

CRITICAL SPEED WITH 1.0" 4TPI ENGLISH ACME SCREW



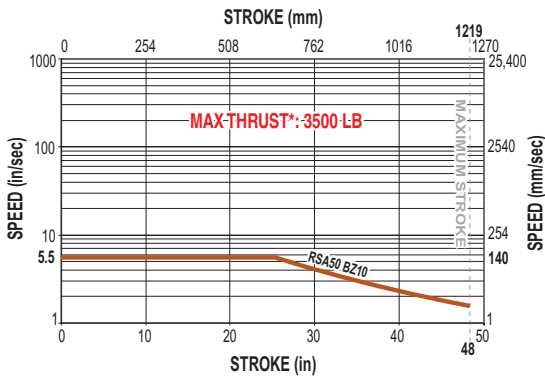
PV LIMITS: 1.0" 4TPI ENGLISH ACME SCREW



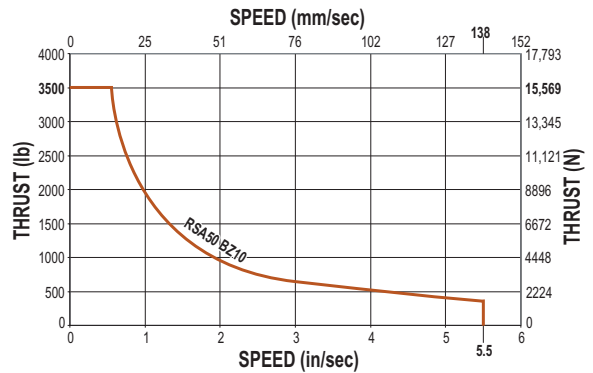
ROD SCREW

RSA/RSM50 Series
• Acme screw critical speed and PV limits

CRITICAL SPEED WITH 1.0" 10TPI ENGLISH ACME SCREW



PV LIMITS: 1.0" 10TPI ENGLISH ACME SCREW



SN = Solid Nut BZ= Bronze Nut



* *Maximum thrust is the maximum continuous dynamic thrust subject to Thrust x Velocity limitation.*

PV LIMITS: Any material which carries a sliding load is limited by heat buildup. The factors that affect heat generation rate in an application are the pressure on the nut in pounds per square inch and the surface velocity in feet per minute. The product of these factors provides a measure of the severity of an application.

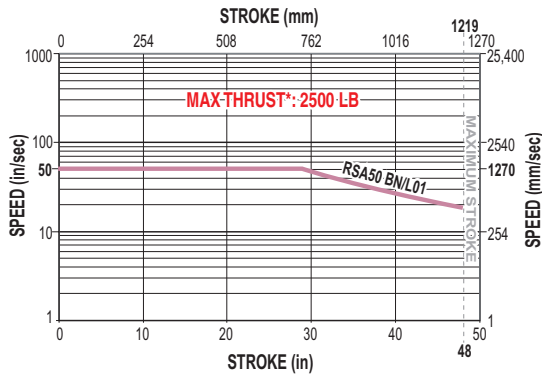
$$P = \frac{\text{Thrust}}{\text{Max. Thrust Rating}} \times V = \frac{\text{Speed}}{\text{Max. Speed Rating}} \leq 0.1$$

Axi-dyne® RSA/RSM50 Series

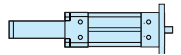
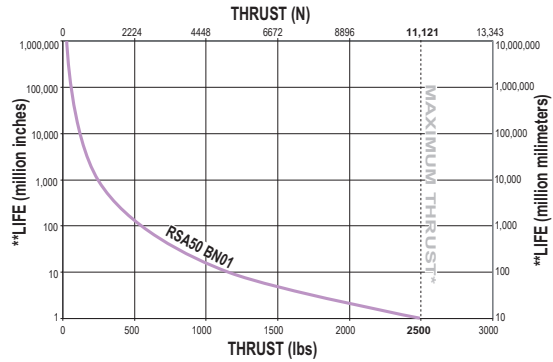
BALL SCREW SPECIFICATIONS

RSA50 BALL SCREW CRITICAL SPEED AND LIFE CALCULATIONS

CRITICAL SPEED WITH 1.0" 1TPI ENGLISH BALL SCREW



LIFE CALCULATION: 1.0" 1TPI ENGLISH BALL SCREW

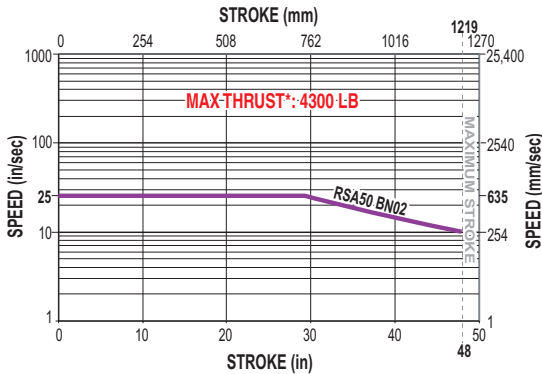


ROD SCREW

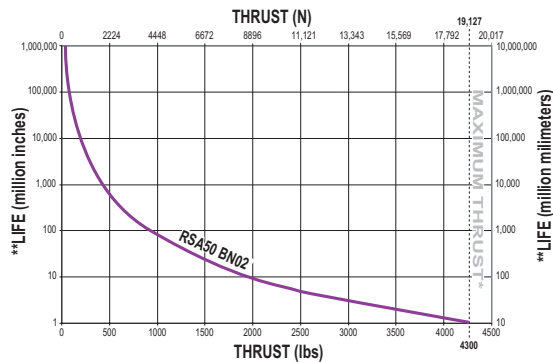
RSA/RSM50 Series

- Ball screw critical speed and life calculations

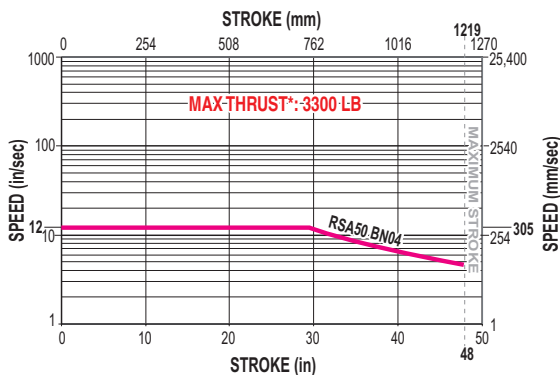
CRITICAL SPEED WITH 1.0" 2TPI ENGLISH BALL SCREW



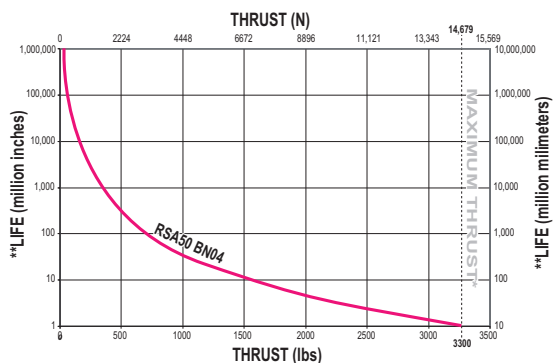
LIFE CALCULATION: 1.0" 2TPI ENGLISH BALL SCREW



CRITICAL SPEED WITH 1.0" 4TPI ENGLISH BALL SCREW



LIFE CALCULATION: 1.0" 4TPI ENGLISH BALL SCREW



BN = Ball Nut



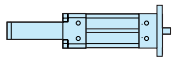
* Maximum thrust reflects 90% reliability for 1 million linear inches of travel.

**Life indicates theoretical maximum life of screw only, under ideal conditions and does not indicate expected life of actuator.

Axi dyne® RSA/RSM50 Series

DIMENSIONS

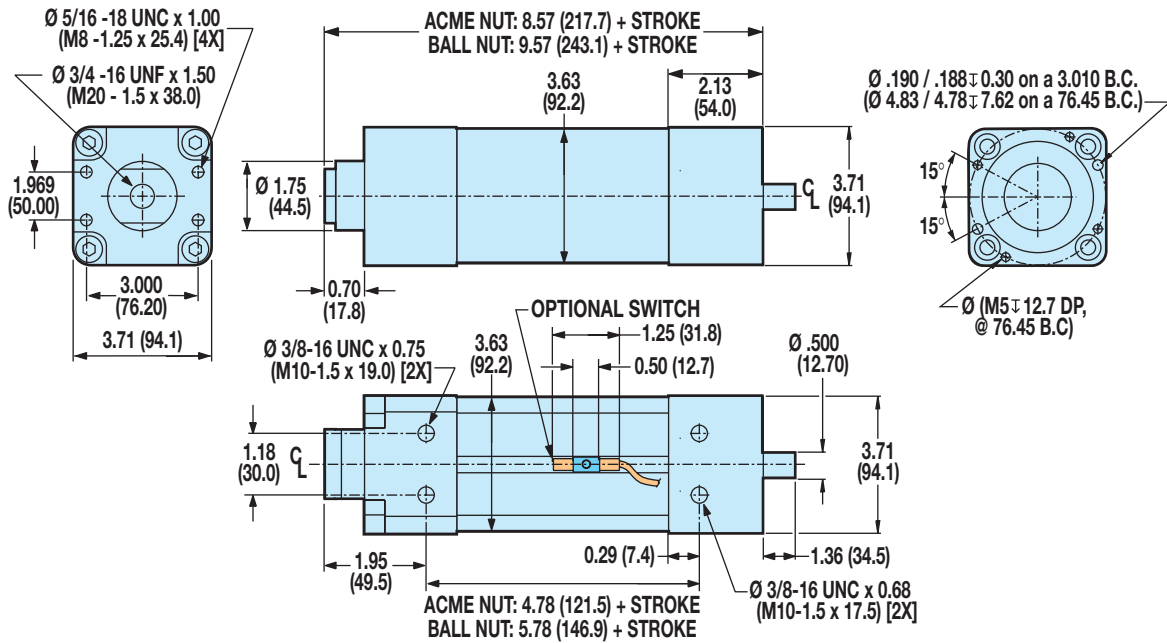
RSA/RSM50 IN-LINE (LMI) BASE MODEL OPTIONS AND SWITCH MOUNTING



ROD SCREW

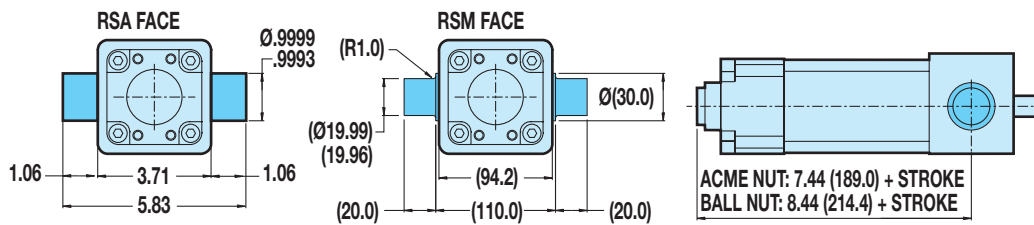
RSA/RSM50 Series

- In-line base model and switch mounting dimensions

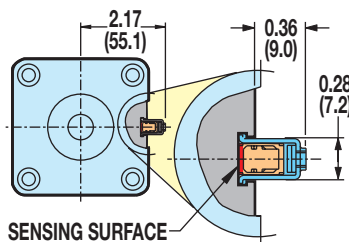


OPTIONAL TRUNNION MOUNT: TRN

- ⚠** TRUNNION MOUNTS ARE NOT FIELD RETROFITTABLE AND MUST BE CONFIGURED AS PART OF THE BASE ACTUATOR. CONTACT THE FACTORY FOR ADDITIONAL INFORMATION.



OPTIONAL SWITCH MOUNTING **⚠** **Ⓜ**

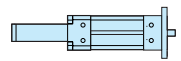
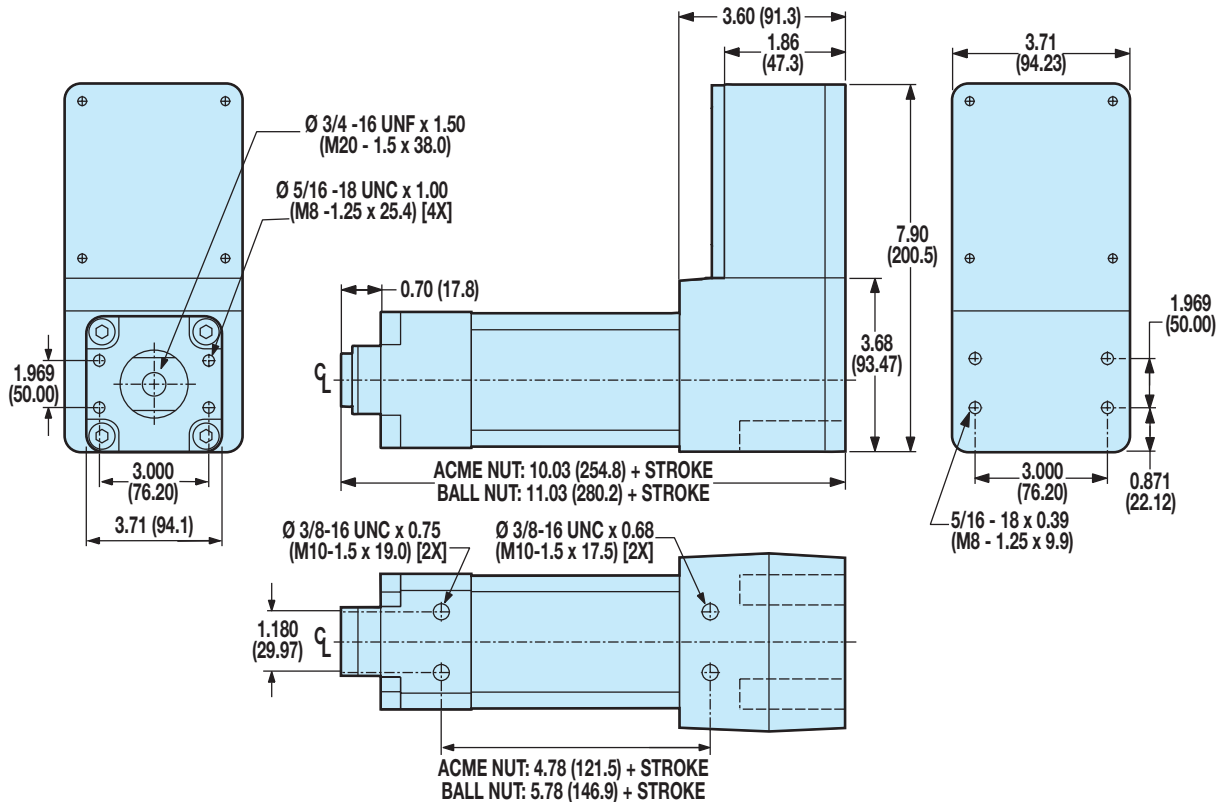


- ⚠ CAUTION: DO NOT OVERTIGHTEN SWITCH HARDWARE WHEN INSTALLING**
- Ⓜ NOTE: The scored face of the switch indicates the sensing surface and must face toward the magnet**

Axi-dyne® RSA/RSM50 Series

DIMENSIONS

RSA/RSM50 REVERSE PARALLEL (RP) BASE MODEL OPTIONS AND SWITCH MOUNTING



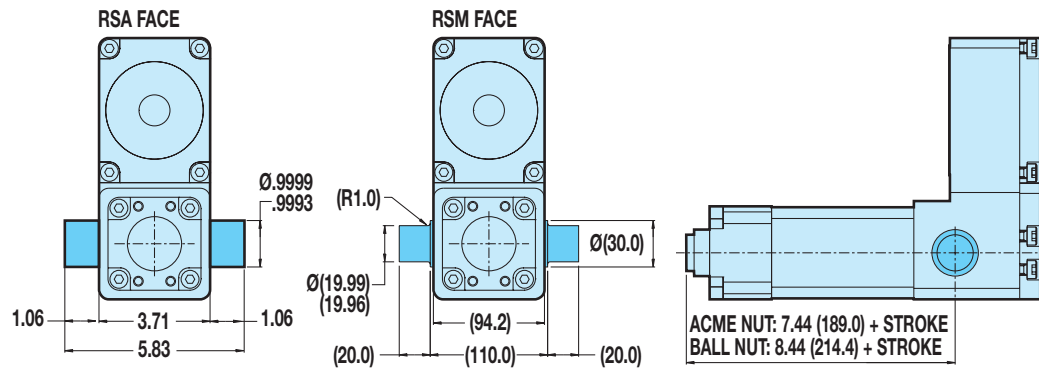
ROD SCREW

RSA/RSM50 Series

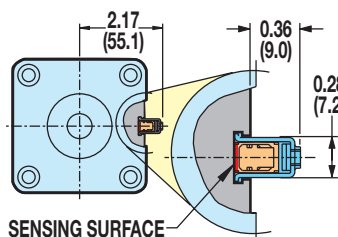
- Reverse parallel base model and switch mounting dimensions

OPTIONAL TRUNNION MOUNT: TRN

⚠ TRUNNION MOUNTS ARE NOT FIELD RETROFITTABLE AND MUST BE CONFIGURED AS PART OF THE BASE ACTUATOR. CONTACT THE FACTORY FOR ADDITIONAL INFORMATION.



OPTIONAL SWITCH MOUNTING ⚠Ⓜ



⚠ CAUTION: DO NOT OVERTIGHTEN SWITCH HARDWARE WHEN INSTALLING

Ⓜ NOTE: The scored face of the switch indicates the sensing surface and must face toward the magnet

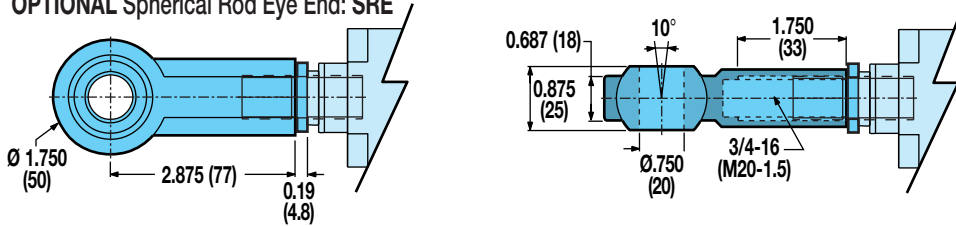
Axi dyne® RSA/RSM50 Series

DIMENSIONS

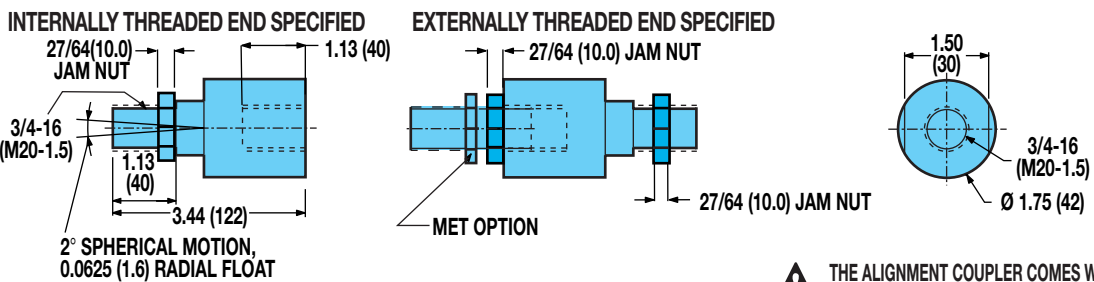
RSA/RSM50 RETROFITTABLE ROD END OPTIONS

FOR IN-LINE (LMI) OR REVERSE PARALLEL (RP) MODELS

OPTIONAL Spherical Rod Eye End: SRE

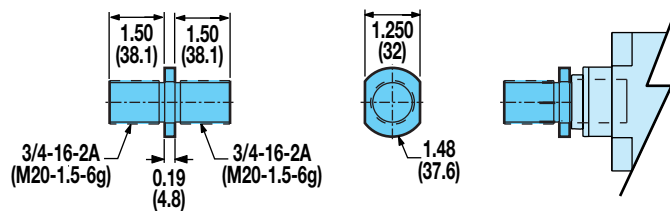


OPTIONAL Alignment Coupler Rod End: ALC

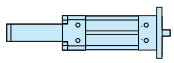
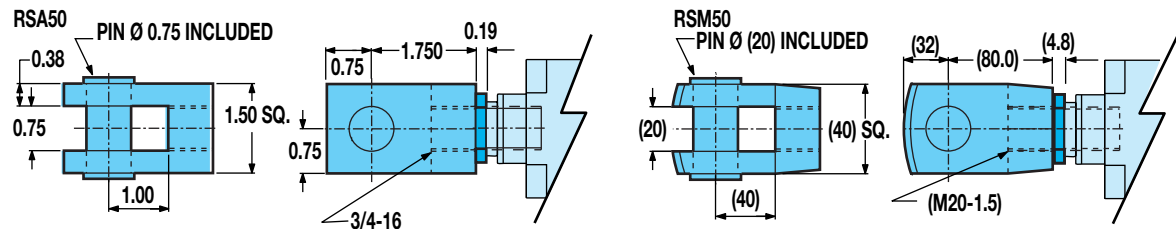


! THE ALIGNMENT COUPLER COMES WITH AN INTERNAL THREAD. IF AN EXTERNAL THREAD IS PREFERRED, THE ADDITION OF THE "MET" OPTION IS REQUIRED.

OPTIONAL External Threaded Rod End: MET



OPTIONAL Clevis Rod End: CLV



ROD SCREW

- RSA/RSM50 Series
- Retrofittable rod end options

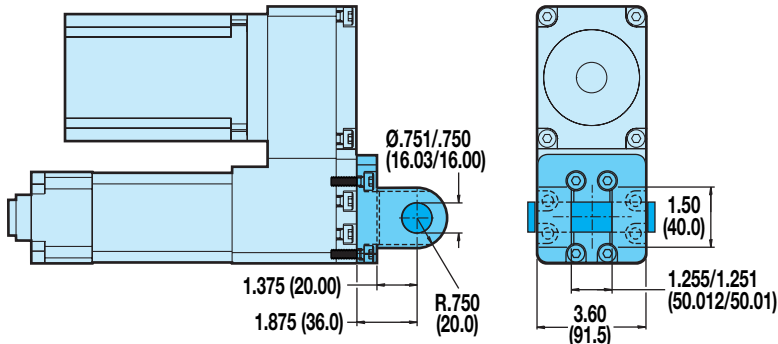
Axi dyne® RSA/RSM50 Series

DIMENSIONS

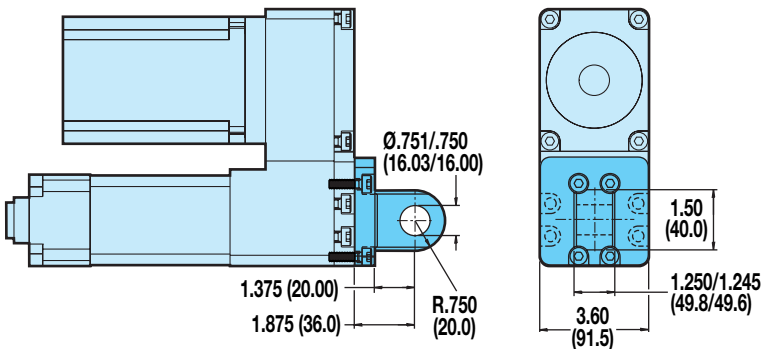
RSA/RSM50 RETROFITTABLE MOUNTING OPTIONS

FOR REVERSE PARALLEL (RP) MODELS ONLY

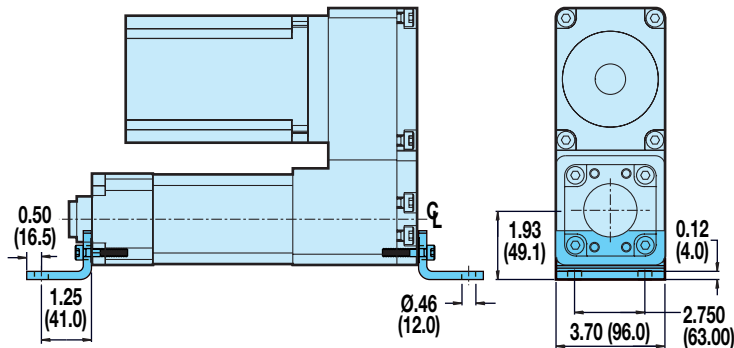
OPTIONAL Clevis Mount: **PCD** (for use on RP models only)



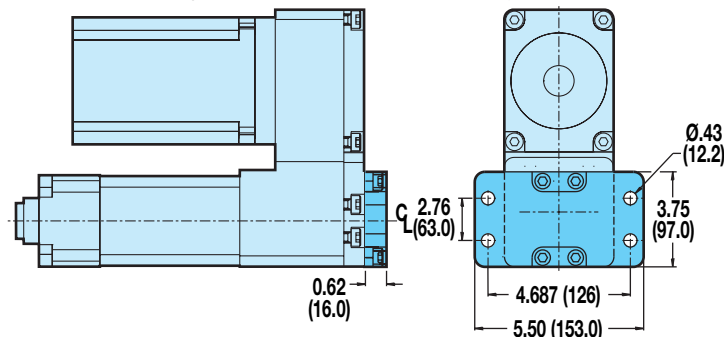
OPTIONAL Eye Mount: **PCS** (for use on RP models only)



OPTIONAL Foot Mount: **FM2** (for use on RP models only)

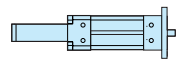
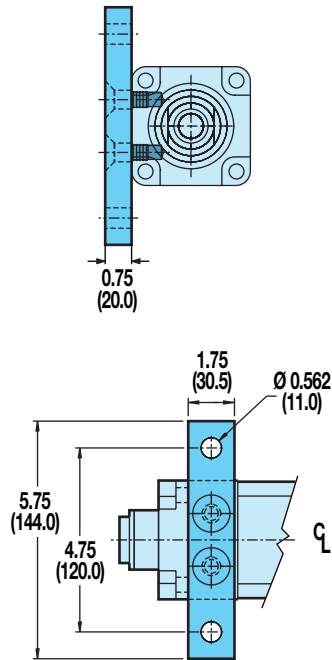


OPTIONAL Back Flange: **BFG** (for use on RP models only)



FOR IN-LINE (LMI) OR REVERSE PARALLEL (RP) MODELS

OPTIONAL Mounting Plate: **MP2**

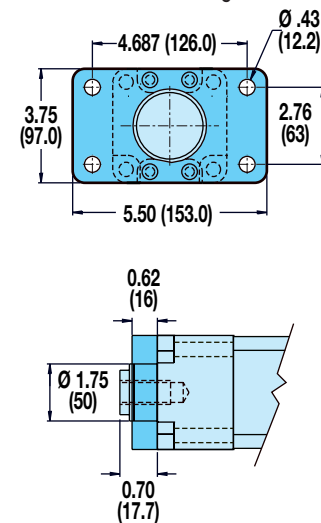


ROD SCREW

RSA/RSM50 Series

- Retrofittable mounting options

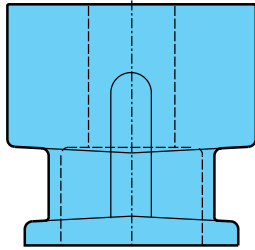
OPTIONAL Front Flange Mount: **FFG**



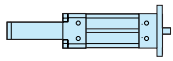
Axi dyne® RSA/RSM50 Series

DIMENSIONS

RSA/RSM50: IN-LINE MOUNTING MOTORS AND GEARHEADS



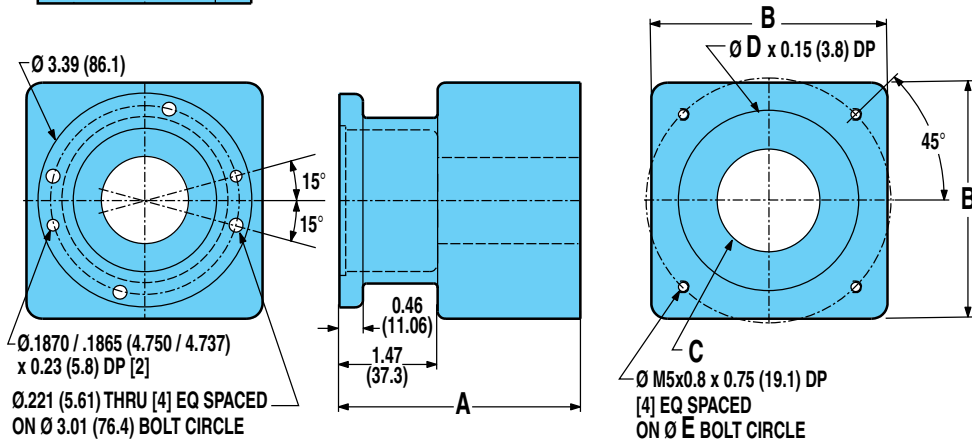
FRAME	MOTOR	GEARHEAD	A	B	C	D	E
			in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
23	MRV	NO	3.30 (83.8)	3.00 (76.2)	2.31 (58.67)	1.505 (38.23)	2.625 (66.6)
23	MRV	YES	3.05 (63.5)	3.00 (76.2)	2.31 (58.67)	1.505 (38.23)	2.625 (66.6)
34	MRV	NO	3.05 (63.5)	3.75 (95.2)	2.31 (58.67)	2.880 (73.15)	3.875 (98.4)
34	MRV	YES	3.83 (97.2)	3.75 (95.2)	2.31 (58.67)	2.880 (73.15)	3.875 (98.4)
56	MRV	NO	4.48 (77.4)	3.75 (95.2)	2.31 (58.67)	4.505 (114.43)	5.875 (149.23)



ROD SCREW

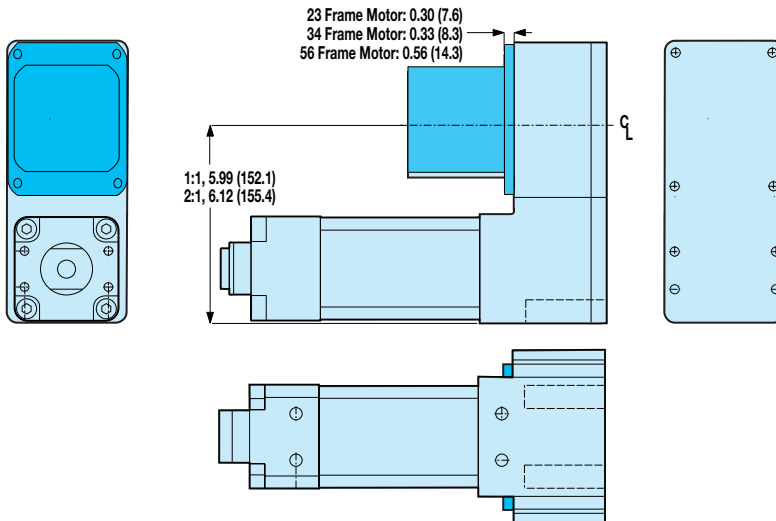
RSA/RSM50 Series

- In-line mounting motors and gearheads
- Reverse parallel motor mounting



For gearhead specifications and dimensions, see page F-10.

RSA/RSM50: REVERSE PARALLEL MOTOR MOUNTING



SPECIFICATIONS

MOTOR	REDUCTION INERTIA AT MOTOR SHAFT			
	1:1		2:1	
	lb-in ²	kg-cm ²	lb-in ²	kg-cm ²
BRUSHLESS MRV21, 22, 23, 23, 24, 31, 32, 33, 51	.198	.5794	.549	1.682

REDUCTION EFFICIENCY: 0.95

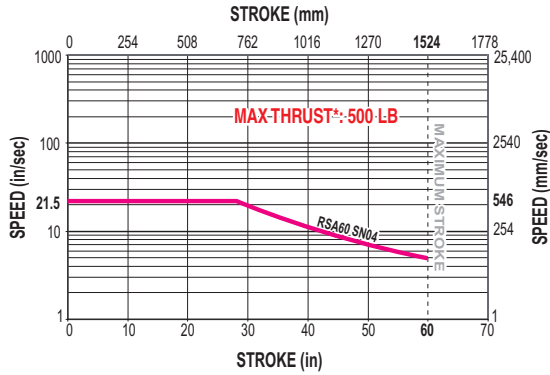


RSA/RSM 64 Series ACME SCREW SPECIFICATIONS

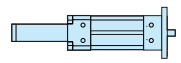
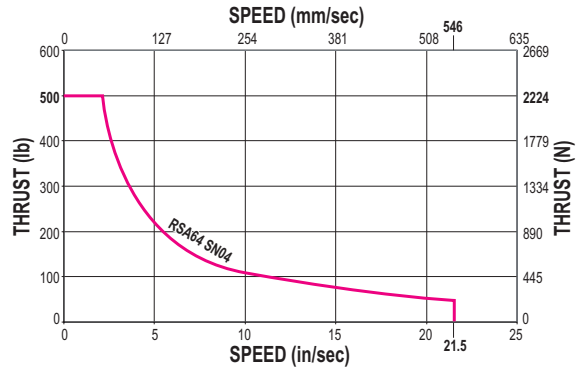


RSA64 ACME SCREW CRITICAL SPEED AND PV LIMITS

CRITICAL SPEED WITH 1.5" 4TPI ENGLISH ACME SCREW

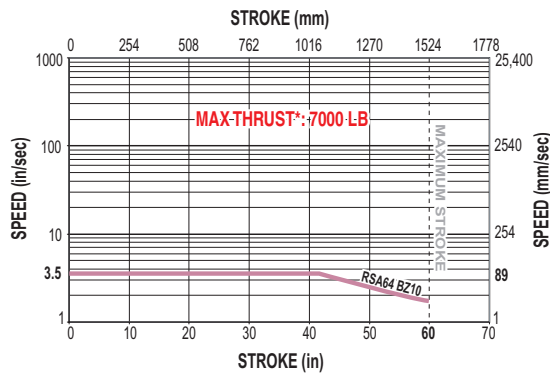


PV LIMITS: 1.5" 4TPI ENGLISH ACME SCREW

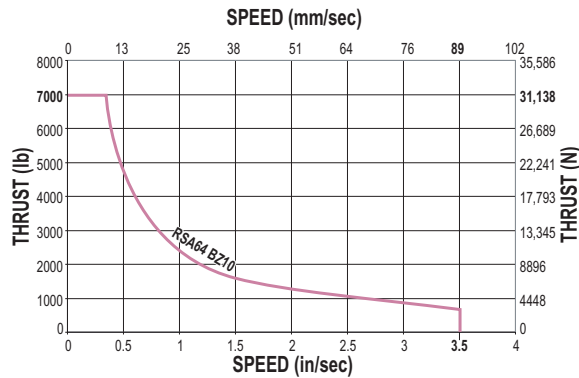


ROD SCREW

CRITICAL SPEED WITH 1.5" 10TPI ENGLISH ACME SCREW



PV LIMITS: 1.5" 10TPI ENGLISH ACME SCREW



RSA/RSM64 Series

- Acme screw critical speed and PV limits

SN = Solid Nut BZ= Bronze Nut



* Maximum thrust is the maximum continuous dynamic thrust subject to Thrust x Velocity limitation.

PV LIMITS: Any material which carries a sliding load is limited by heat buildup. The factors that affect heat generation rate in an application are the pressure on the nut in pounds per square inch and the surface velocity in feet per minute. The product of these factors provides a measure of the severity of an application.

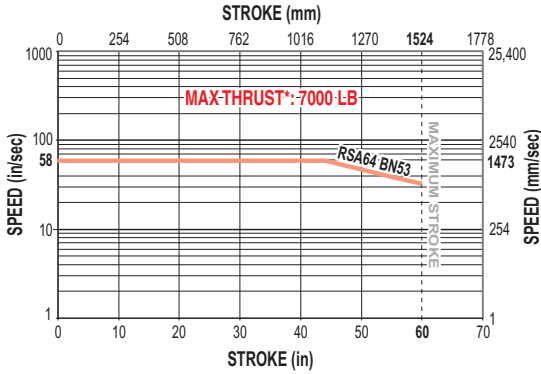
$$P = \frac{\text{Thrust}}{\text{Max. Thrust Rating}} \times V = \frac{\text{Speed}}{\text{Max. Speed Rating}} \leq 0.1$$

Axi *dyne*® RSA/RSM64 Series

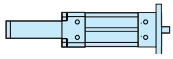
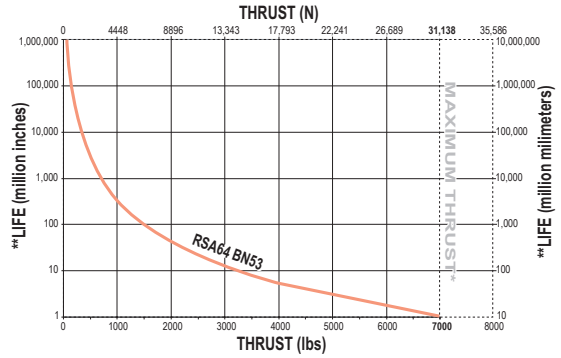
BALL SCREW SPECIFICATIONS

RSA64 BALL SCREW CRITICAL SPEED AND LIFE CALCULATIONS

CRITICAL SPEED WITH 1.5" 0.53TPI ENGLISH BALL SCREW



LIFE CALCULATION: 1.5" 0.53TPI ENGLISH BALL SCREW

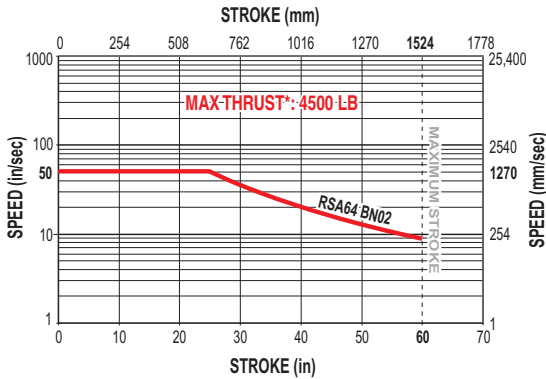


ROD SCREW

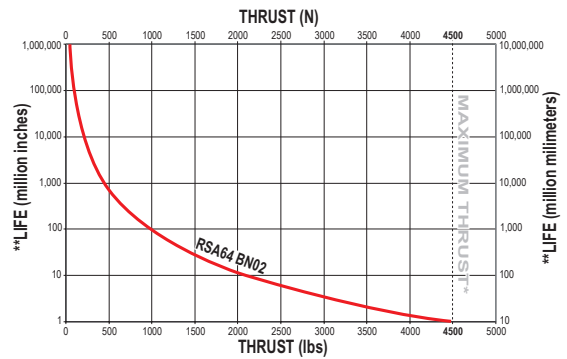
RSA/RSM64 Series

- Ball screw critical speed and life calculations

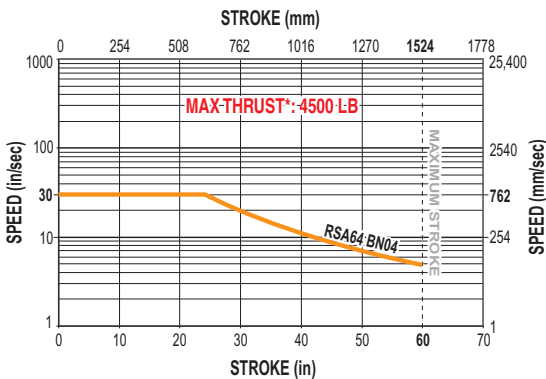
CRITICAL SPEED WITH 1.5" 2TPI ENGLISH BALL SCREW



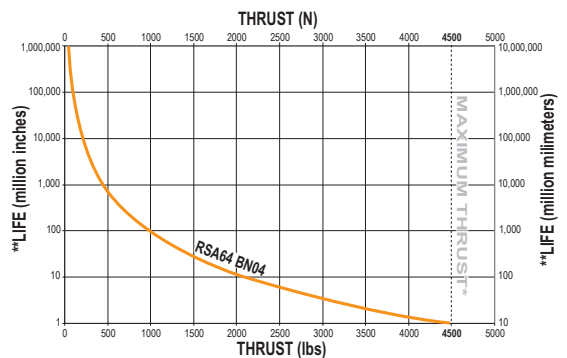
LIFE CALCULATION: 1.5" 2TPI ENGLISH BALL SCREW



CRITICAL SPEED WITH 1.5" 4TPI ENGLISH BALL SCREW



LIFE CALCULATION: 1.5" 4TPI ENGLISH BALL SCREW



BN = Ball Nut



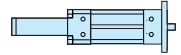
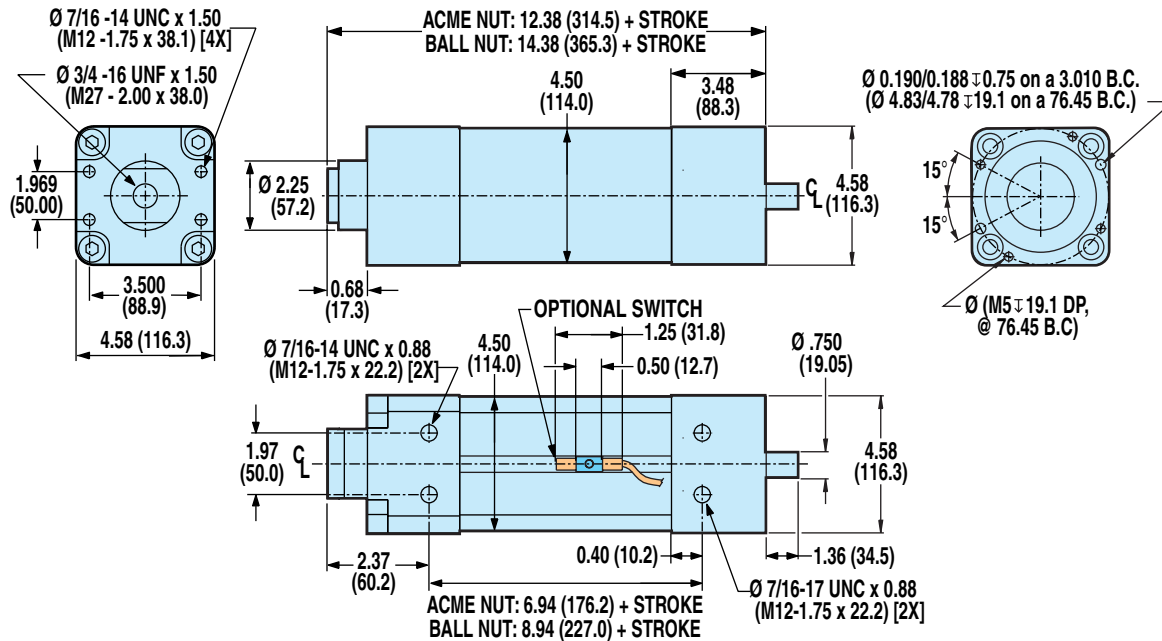
* Maximum thrust reflects 90% reliability for 1 million linear inches of travel.

**Life indicates theoretical maximum life of screw only, under ideal conditions and does not indicate expected life of actuator.

Axi-dyne® RSA/RSM64 Series

DIMENSIONS

RSA/RSM64 IN-LINE (LMI) BASE MODEL OPTIONS AND SWITCH MOUNTING



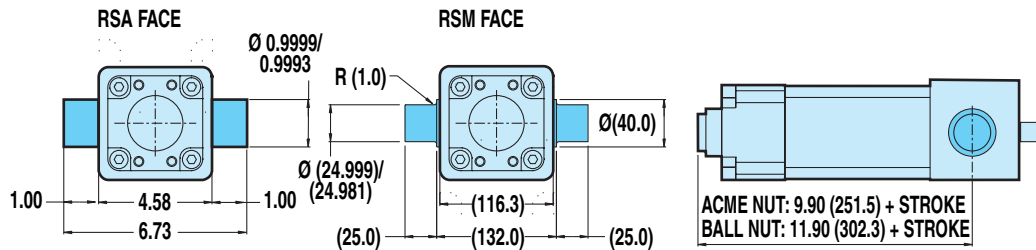
ROD SCREW

RSA/RSM64 Series

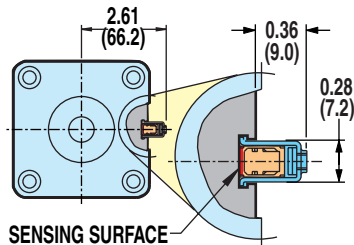
- In-line base model and switch mounting

OPTIONAL Trunnion Mount: TRN

⚠ TRUNNION MOUNTS ARE NOT FIELD RETROFITTABLE AND MUST BE CONFIGURED AS PART OF THE BASE ACTUATOR. CONTACT THE FACTORY FOR ADDITIONAL INFORMATION.



OPTIONAL SWITCH MOUNTING **⚠** **Ⓜ**



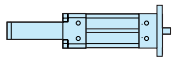
⚠ CAUTION: DO NOT OVERTIGHTEN SWITCH HARDWARE WHEN INSTALLING
Ⓜ NOTE: The scored face of the switch indicates the sensing surface and must face toward the magnet

Unless otherwise noted, all dimensions shown are in inches (Dimensions in parenthesis are in millimeters)

Axi dyne® RSA/RSM64 Series

DIMENSIONS

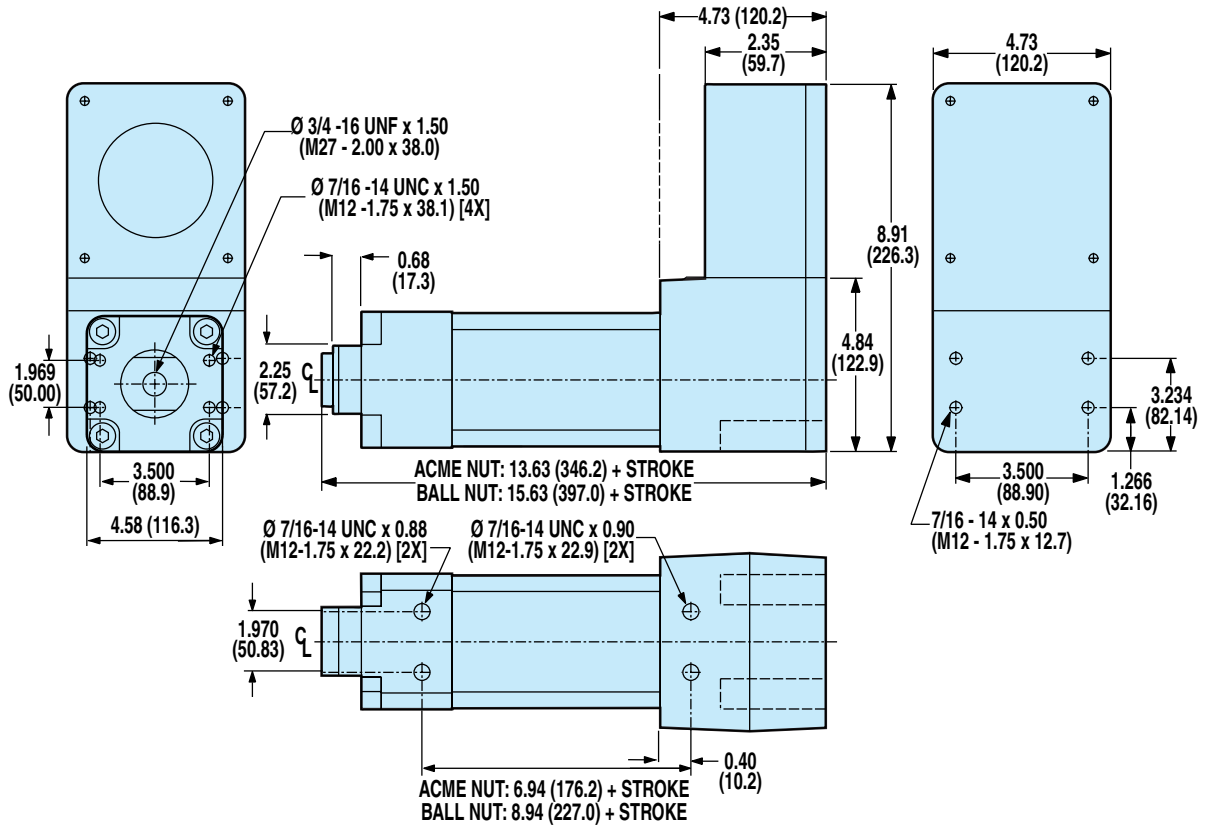
RSA/RSM64 REVERSE PARALLEL (RP) BASE MODEL OPTIONS AND SWITCH MOUNTING



ROD SCREW

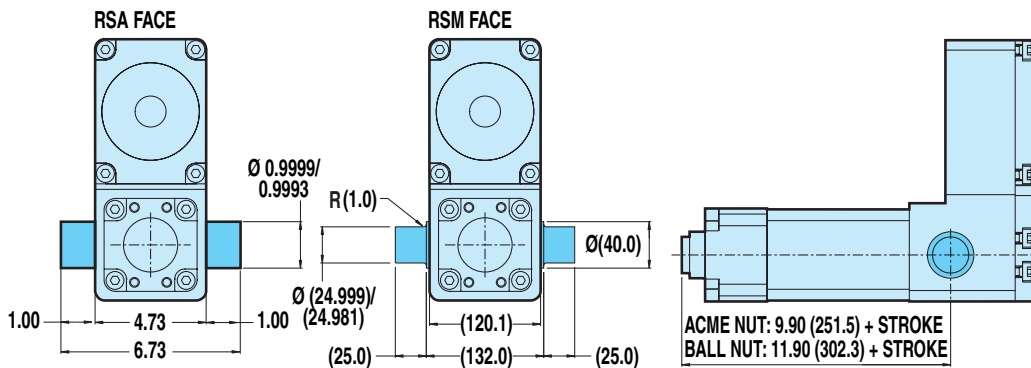
RSA/RSM64 Series

- Reverse parallel base model and switch mounting

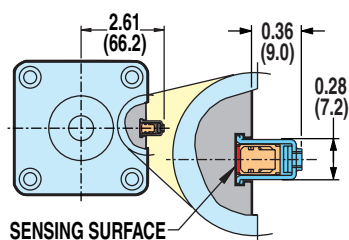


OPTIONAL Trunnion Mount: TRN

⚠ TRUNNION MOUNTS ARE NOT FIELD RETROFITTABLE AND MUST BE CONFIGURED AS PART OF THE BASE ACTUATOR. CONTACT THE FACTORY FOR ADDITIONAL INFORMATION.



OPTIONAL SWITCH MOUNTING **⚠** **Ⓜ**



⚠ CAUTION: DO NOT OVERTIGHTEN SWITCH HARDWARE WHEN INSTALLING
Ⓜ NOTE: The scored face of the switch indicates the sensing surface and must face toward the magnet

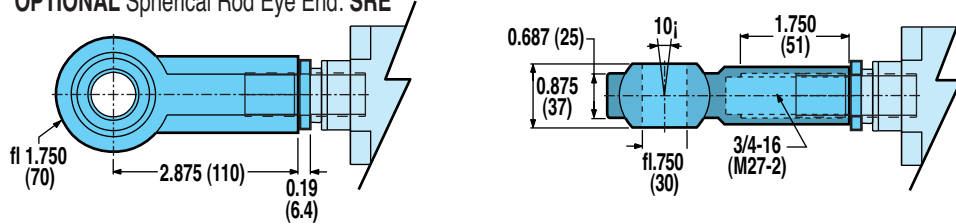
Axi dyne® RSA/RSM64 Series

DIMENSIONS

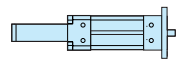
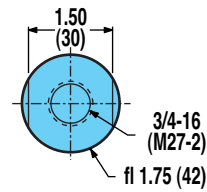
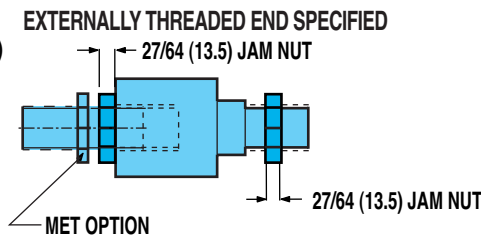
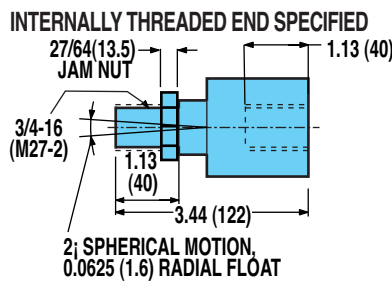
RSA/RSM64 RETROFITTABLE ROD END OPTIONS

FOR IN-LINE (LMI) OR REVERSE PARALLEL (RP) MODELS

OPTIONAL Spherical Rod Eye End: SRE



OPTIONAL Alignment Coupler Rod End: ALC

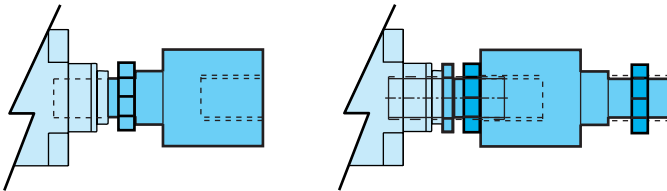


ROD SCREW

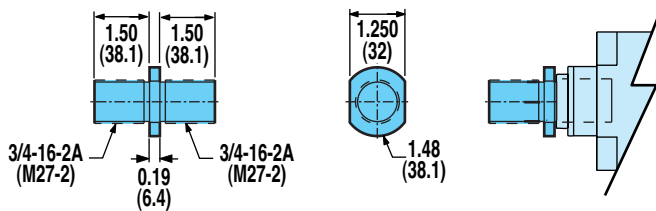
RSA/RSM64 Series

- Retrofittable rod end options

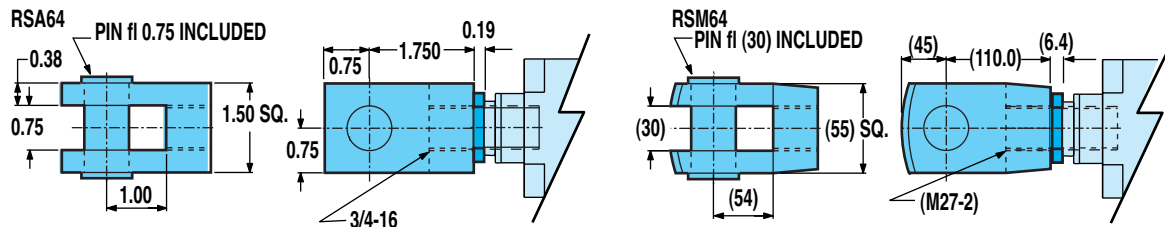
! THE ALIGNMENT COUPLER COMES WITH AN INTERNAL THREAD. IF AN EXTERNAL THREAD IS PREFERRED, THE ADDITION OF THE "MET" OPTION IS REQUIRED.



OPTIONAL External Threaded Rod End: MET



OPTIONAL Clevis Rod End: CLV



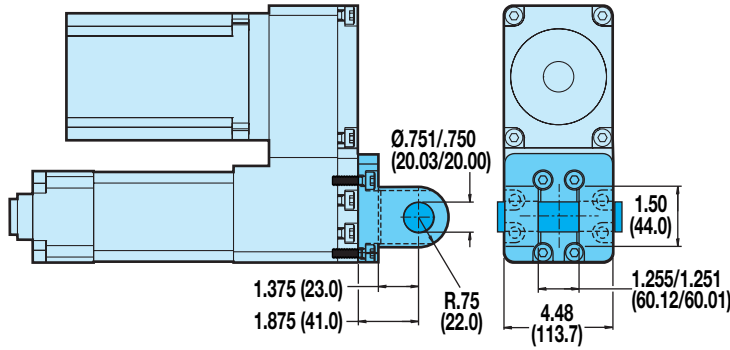
Axi dyne® RSA/RSM64 Series

DIMENSIONS

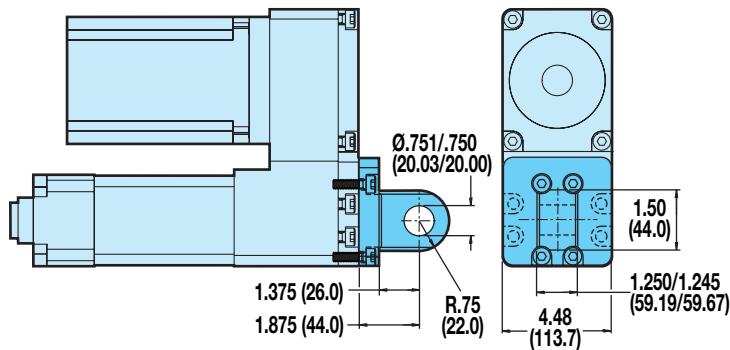
RSA/RSM64 RETROFITTABLE MOUNTING OPTIONS

FOR REVERSE PARALLEL (RP) MODELS ONLY

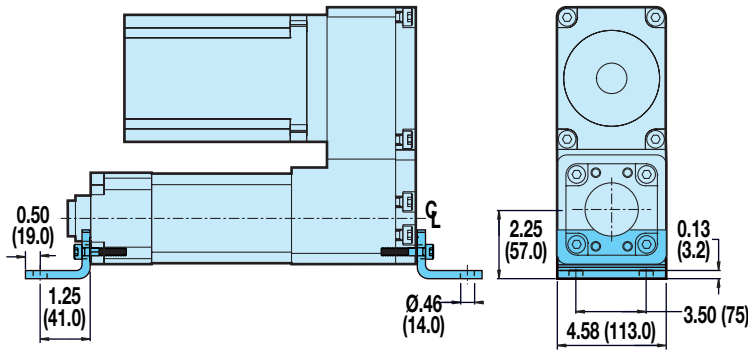
OPTIONAL Clevis Mount: PCD



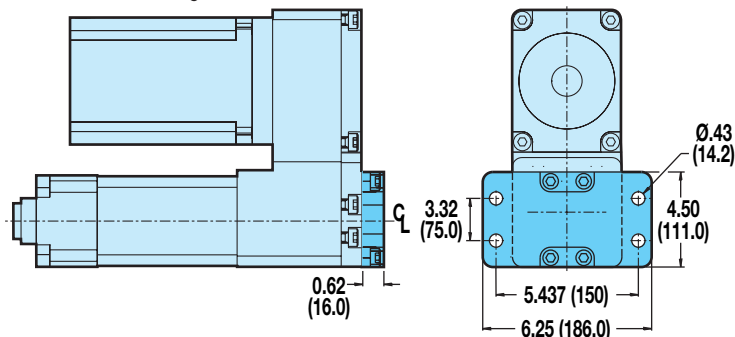
OPTIONAL Eye Mount: PCS



OPTIONAL Foot Mount: FM2

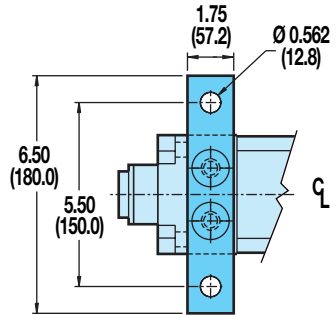
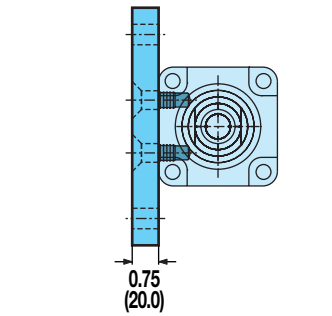


OPTIONAL Back Flange: BFG

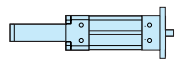
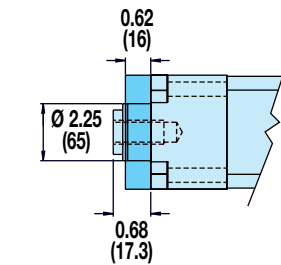
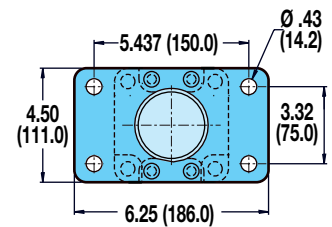


FOR IN-LINE (LMI) OR REVERSE PARALLEL (RP) MODELS

OPTIONAL Mounting Plate: MP2



OPTIONAL Front Flange Mount: FFG



ROD SCREW

RSA/RSM64 Series

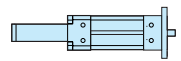
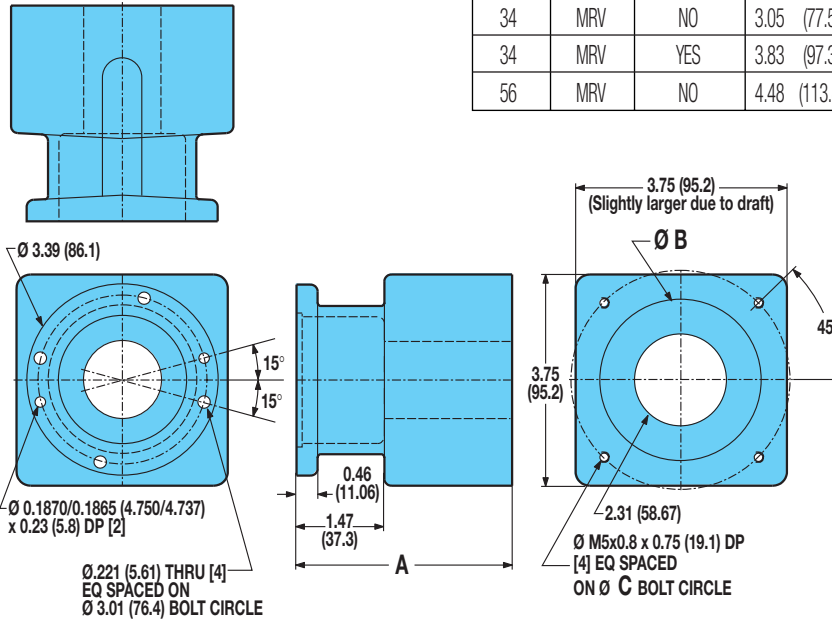
- Retrofittable mounting options

Axi-dyne® RSA/RSM64 Series

DIMENSIONS

RSA/RSM64: IN-LINE MOUNTING MOTORS AND GEARHEADS

FRAME	MOTOR	GEARHEAD	A		B		C	
			in	(mm)	in	(mm)	in	(mm)
34	MRV	NO	3.05	(77.5)	2.880	(73.15)	3.875	(98.4)
34	MRV	YES	3.83	(97.3)	2.880	(73.15)	3.875	(98.4)
56	MRV	NO	4.48	(113.8)	4.505	(114.43)	5.875	(149.23)



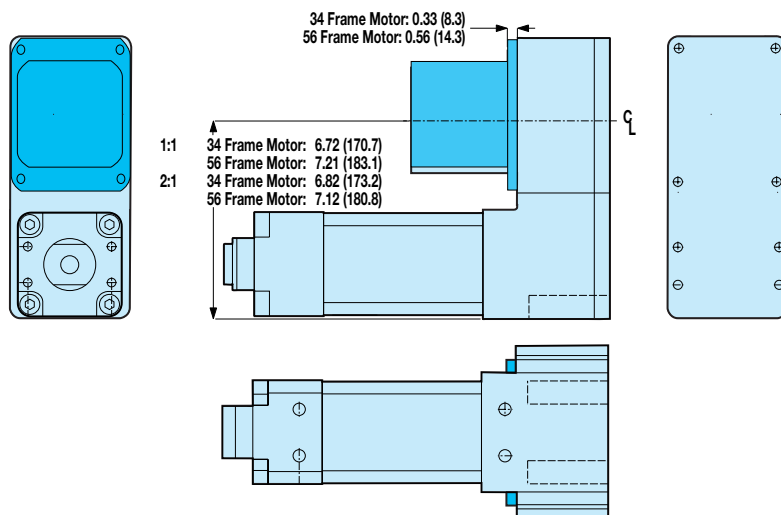
ROD SCREW

RSA/RSM64 Series

- In-line mounting motors and gearheads

! For gearhead specifications and dimensions, see page F-10.

RSA/RSM64: REVERSE PARALLEL MOTOR MOUNTING



SPECIFICATIONS

MOTOR	REDUCTION INERTIA AT MOTOR SHAFT			
	1:1		2:1	
	lb-in ²	kg-cm ²	lb-in ²	kg-cm ²
BRUSHLESS MRV31, 32, 33, 51	.581	1.7002	1.682	4.9222

REDUCTION EFFICIENCY: 0.95

Axi dyne® RSA/RSM Series

ORDERING

BASE MODEL SPECIFICATIONS

RSA 50 BNL02 SK35 RP1TRN

OPTIONS SPECIFICATIONS

XR6 BFG ALCMET KT2

MODEL TYPE

RSA RSA Series English Rod Screw
RSM RSM Series Metric Rod Screw

BODY SIZE

12	32
16	50
24	64

NUT/SCREW CONFIGURATION

SOLID NUT / PITCH (TPI) RSA AND RSM SERIES
SN01 12, 16, 32
SN02 12, 16, 24, 32
SN04 24, 50, 64
SN05 12, 16
SN08 24

BRONZE NUT / PITCH (TPI) RSA AND RSM SERIES
BZ10 12, 16, 24, 32, 50, 64

BALL NUT / PITCH (TPI) RSA AND RSM SERIES
BN01 / BNL01 50
BN02 / BNL02 32, 50, 64
BN04 / BNL04 50, 64
BN05 / BNL05 24, 32
BN08 / BNL08 12, 16
BN53 / BNL53 64

STROKE LENGTH

SK_ Stroke, then enter desired stroke length in decimal inches

MODEL	MAX STROKE (in)
12 Series	12
16 Series	18
24 Series	24
32 Series	36
50 Series	48
64 Series	60

BASE MODEL

LMI In-line motor mounting base model
RP1 1:1 Reverse parallel mount
RP2 2:1 Reverse parallel mount*
** Not available on 12 or 16 Series.*

BASE MODEL MOUNTING OPTIONS

TRN Add Trunnion Mount (MT2)**
*** Not available on In-line (LMI) 12 or 16 Series.
 Trunnion mounts must be built as part of the base actuator and are non-retrofitable.*

ROD EXTENSION OPTION

XR_ Rod Extension* (in inches)
** Selecting this option may exceed the actuators bearing load capabilities. It is recommended for vertical application only.*

ACTUATOR MOUNTING OPTIONS

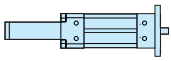
FM2 Foot Mount (MS1)*
FFG Front Flange Mount (MF2)
PCD Clevis Mount (MP2)*
MP2 Mounting Plate (MS2)
BFG Back Flange Mount (MF2)*
PCS Eye Mount (MP4)*
** Available on Reverse Parallel (RP) base models only.*

ROD END OPTIONS

Internally threaded rod end is standard
MET External Threaded Rod End
CLV Clevis Rod End
SRE Spherical Rod End
ALC Alignment Coupler Rod End*
** If alignment coupler is selected, the external rod end must also be added.*

SWITCHES

RM_ Reed Switch (Form A) with 5-meter lead/QD, and quantity desired
RT_ Reed Switch (Form A) with 5-meter lead, and quantity desired
BM_ Reed Switch (Form C) with 5-meter lead/QD, and quantity desired
BT_ Reed Switch (Form C) with 5-meter lead, and quantity desired
KM_ Hall-effect Sinking Switch with 5-meter lead/QD, and quantity desired
KT_ Hall-effect Sinking Switch with 5-meter lead, and quantity desired
TM_ Hall-effect Sourcing Switch with 5-meter lead/QD, and quantity desired
TT_ Hall-effect Sourcing Switch with 5-meter lead, and quantity desired
CM_ TRIAC Switch with 5-meter lead/QD, and quantity desired
CT_ TRIAC Switch with 5-meter lead, and quantity desired



ROD SCREW

RSA/RSM64 Series
 • Ordering

TO ORDER MOTORS/CONTROLS/INTERFACES

BRUSHLESS SERVO (SEE PAGE F-33)



Not all codes listed are compatible with all options.

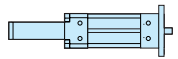
Use the Tol-O-Motion™ Sizing Software to determine available options and accessories based on your application requirements.

Rod Screw Actuators

ORDERING

FIELD RETROFIT MOUNTING KITS

Item	I2 Series		I6 Series		24 Series		32 Series		50 Series		64 Series	
	RSA Kit#	RSM Kit#	RSA Kit#	RSM Kit#	RSA Kit#	RSM Kit#	RSA Kit#	RSM Kit#	RSA Kit#	RSM Kit#	RSA Kit#	RSM Kit#
Front Flange Mount	1107-9013	2107-9013	1112-9013	2112-9013	1124-9022	2124-9032	1132-9022	2132-9042	1150-9022	2150-9042	1164-9022	2164-9022
Foot Mount	1107-9010	2107-9009	1112-9010	2112-9010	1124-9020	2124-9030	1132-9020	2132-9040	1150-9020	2150-9040	1164-9020	2164-9020
Mounting Plate	1107-9015	2107-9015	1112-9014	2112-9014	1124-9023	2124-9033	1132-9023	2132-9043	1150-9023	2150-9043	1164-9023	2164-9023
Back Flange Mount	1107-9014	2107-9014	1112-9013	2112-9025	1124-9022	2124-9032	1132-9022	2132-9042	1150-9022	2150-9042	1164-9022	2164-9022
Eye Mount	1107-9016	2107-9016	1107-9016	2107-9016	1124-9024	2124-9034	1132-9024	2132-9044	1150-9024	2150-9044	1164-9024	2164-9024
Clevis Mount	1107-9017	2107-9017	1107-9017	2107-9017	1124-9025	2124-9035	1132-9025	2132-9045	1150-9025	2150-9045	1164-9025	2164-9025



FIELD RETROFIT ROD END KITS

Item	I2 Series		I6 Series		24 Series		32 Series		50 Series		64 Series	
	RSA Kit#	RSM Kit#	RSA Kit#	RSM Kit#	RSA Kit#	RSM Kit#	RSA Kit#	RSM Kit#	RSA Kit#	RSM Kit#	RSA Kit#	RSM Kit#
External Threaded	1107-1073	2107-1073	1112-1058	2112-1058	1124-1057	2124-1067	1124-1057	2132-1057	1150-1057	2150-1057	1150-1057	2164-1057
Spherical Rod Eye	1107-9020	2107-9020	1112-9019	2112-9019	1124-9028	2124-9038	1124-9028	2132-9048	1150-9028	2150-9048	1150-9028	2164-9028
Clevis End	1107-9021	2107-9021	1112-9020	2112-9020	1124-9029	2124-9039	1124-9029	2132-9049	1150-9029	2150-9049	1150-9029	2164-9029
Alignment Coupler	1107-1076	NA	1112-1065	NA	1124-9004	2124-1070	1124-9004	2132-1060	1150-9009	2150-1060	1150-9009	2164-1060

ROD SCREW

RSA/RSM Series

- Ordering



When interfacing with the threaded end of the Alignment Coupler, an External Threaded Rod End kit is also required.