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Linear Actuators





Linear Actuators



SIPCO offers a complete product line of standard and precision components.

SIPCO has been satisfying customers since 1984.

In that time, we have established a reputation for providing product services & Mechanical Linkage solutions to industries using motion control, power transmission, and hydraulic systems. Today, our products are in applications, including robotic, packaging, automotive, printing and material handling applications to name a few.

Through this experience, we are continually evolving, offering new innovative solutions for high-tech applications. When you have one source, you only have to place one order to fill your Mechanical Linkage needs.

Linear actuators are electromechanical cylinders able to transform a rotary movement into a linear motion.

Developed and manufactured for industrial applications, linear actuators can offer higher linear speeds and loads at up to 100% duty cycle, even in the most extreme conditions and arduous applications.

Able to work under push or pull load.

According to their features, they can be:

- Statically self-locking:able to sustain static load keeping the same position when the motor is switched off.

- Statically non self-locking: the load can be sustained with a brake motor.

They are capable of maintaining constant speed with a varying load, at a very low noise level.

FEATURES		SIZE	ATL 10	ATL 20	ATL 25	ATL 30	ATL 40	
Rod diameter	[mm]		25	25	30	35	40	
Protective tube diameter	[mm]		36	36	45	55	60	
Motor flange			-	56 B14	56 B14	63 B14	71 B14	
European standard IEC B14								
Max. dynamic load	[N]		3000	4000	6000	10000	12000	
Max. static load	Pull	[N]	3000	4000	6000	10000	12000	
	Push	[N]	4000	6000	8000	12000	15000	
1-start acme screw	[mm]		Tr 13.5x3	Tr 13.5x3	Tr 16x4	Tr 18x4	Tr 22x5	
2-starts acme screw	[mm]		Tr 14x8 (P4)	Tr 14x8 (P4)	Tr 16x8 (P4)	Tr 18x8 (P4)	Tr 22x10 (P5)	
Ratio	RH		1 : 4	1 : 4	1 : 4	-	-	
	RV		1 : 6.25	1 : 6.25	1 : 6.25	1 : 4	1 : 5	
	RN		1 : 12.5	1 : 12.5	1 : 12.5	1 : 16	1 : 20	
	RL		1 : 25	1 : 25	1 : 25	1 : 24	1 : 25	
	RXL		1 : 50	1 : 50	1 : 50	-	-	
	RH1		0.75	0.75	1	-	-	
Linear travel [mm] for 1 input shaft turn (1-start acme screw)	RV1		0.48	0.48	0.64	1	1	
	RN1		0.24	0.24	0.32	0.25	0.25	
	RL1		0.12	0.12	0.16	0.17	0.2	
	RXL1		0.06	0.06	0.08	-	-	
	RH2		2	2	2	-	-	
	RV2		1.28	1.28	1.28	2	2	
Linear travel [mm] for 1 input shaft turn (2-starts acme screw)	RN2		0.64	0.64	0.64	0.5	0.5	
	RL2		0.32	0.32	0.32	0.33	0.4	
	RXL2		0.16	0.16	0.16	-	-	
	Weight (referred to actuator 100 mm stroke length, with lubricant, without motor)	[kg]		1.7	2.2	2.5	3.8	6.5
	Extra-weight for each additional 100 mm stroke length	[kg]		0.3	0.3	0.5	0.8	0.9

FEATURES		SIZE	ATL 50	ATL 63	ATL 80
Rod diameter	[mm]		50	60	90
Protective tube diameter	[mm]		70	90	115
Motor flange			63 B5 - 71 B5	80 B5	80 B5 - 90 B5
European standard IEC B5					
Motor flange adapter			80 B14 or 80 B5	90 B14 or 90 B5	100 B14 or 100 B5
European standard IEC + coupling			90 B14 or 90 B5	100 B14 or 100 B5	112 B14 or 112 B5
Max. dynamic load	[kN]		25	50	80
Max. static load	pull	[kN]	25	50	80
	push	[kN]	25	50	100
1-start acme screw	[mm]		Tr 30 x 6	Tr 40 x 7	Tr 60 x 12
2-starts acme screw	[mm]		Tr 30 x 12 (P6)	Tr 40 x 14 (P7)	Tr 60 x 24 (P12)
Ratio	RV		1 : 6	1 : 7	1 : 8
	RN		1 : 18	1 : 14	1 : 24
	RL		1 : 24	1 : 28	1 : 32
	RV1		1	1	1.5
Linear travel [mm] for 1 input shaft turn (1-start acme screw)	RN1		0.33	0.50	0.50
	RL1		0.25	0.25	0.38
	RV2		2	2	3
Linear travel [mm] for 1 input shaft turn (2-starts acme screw)	RN2		0.67	1	1
	RL2		0.50	0.50	0.75
Weight (referred to actuator 100 mm stroke length, with lubricant, without motor)	[kg]		30	50	95
Extra-weight for each additional 100 mm stroke length	[kg]		2	3	5.5

