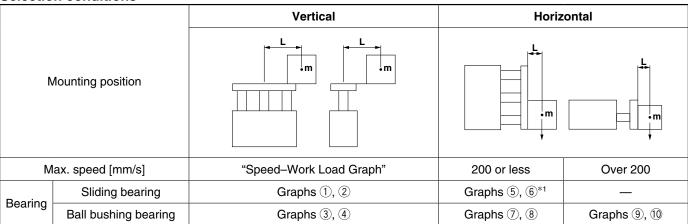
Battery-less Absolute (Step Motor 24 VDC) Guide Rod Type LEYG Series Model Selection

LEYG□E Series ▶ p. 533

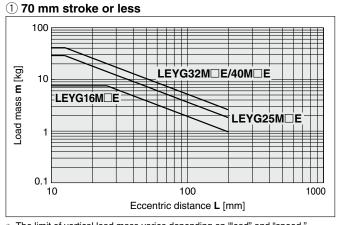
Moment Load Graph

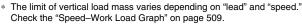
Selection conditions

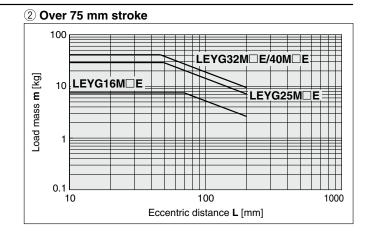


^{*1} For the sliding bearing type, the speed is restricted with a horizontal/moment load.

Vertical Mounting, Sliding Bearing



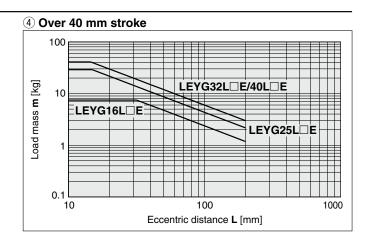




Vertical Mounting, Ball Bushing Bearing

3 35 mm stroke or less LEYG16LDE LEYG25LDE 0.1 10 100 Eccentric distance L [mm]

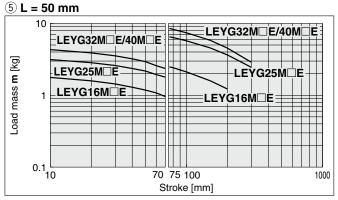
* The limit of vertical load mass varies depending on "lead" and "speed." Check the "Speed–Work Load Graph" on page 509.

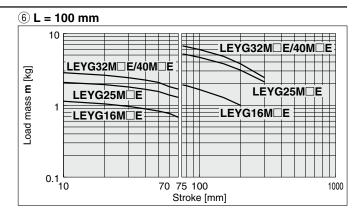




Moment Load Graph

Horizontal Mounting, Sliding Bearing



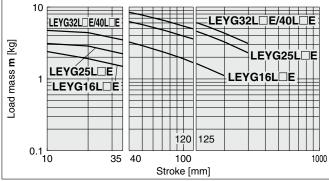


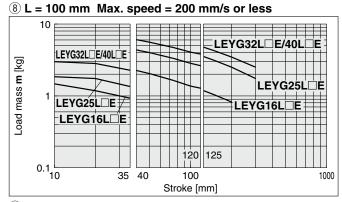
* Set the speed to less than or equal to the values shown below.

Motor type	LEYG□M□A	LEYG□M□B	LEYG□M□C
Battery-less absolute	200 mm/s	125 mm/s	75 mm/s
(Step motor 24 VDC)	200 11111/5	123 11111/5	75 11111/5

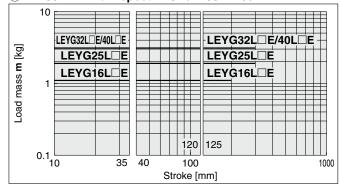
Horizontal Mounting, Ball Bushing Bearing

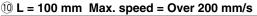
\bigcirc L = 50 mm Max. speed = 200 mm/s or less

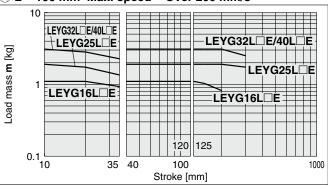






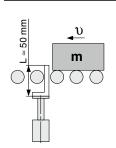






Operating Range when Used as a Stopper

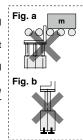
LEYG M (Sliding bearing)

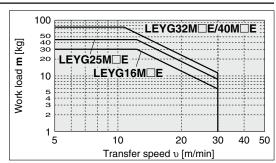


⚠ Caution

Handling Precautions

- * When used as a stopper, select a model with a stroke of 30 mm or less.
- * LEYG□L□E (ball bushing bearing) cannot be used as a stopper.
- Workpiece collision in series with guide rod cannot be permitted (Fig. a).
- * The body should not be mounted on the end. It must be mounted on the top or bottom (Fig. b).

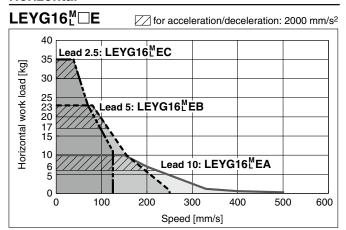


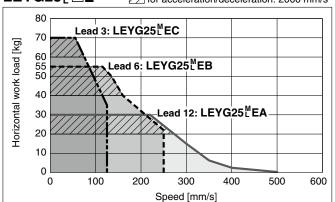


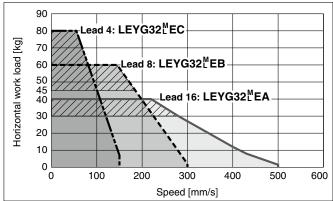


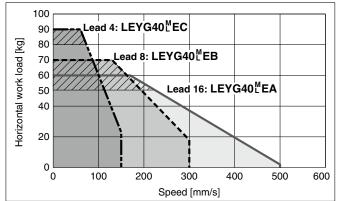
Speed-Work Load Graph (Guide) For Battery-less Absolute (Step Motor 24 VDC)

Horizontal



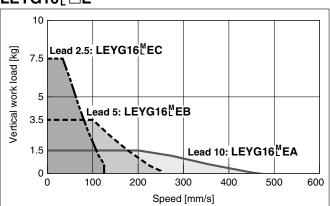




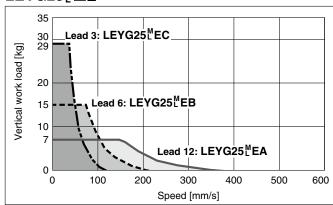


Vertical

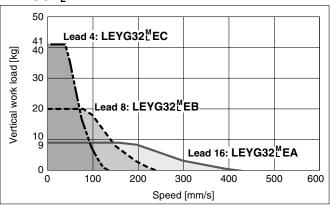
LEYG16[™]□E



LEYG25^M□E

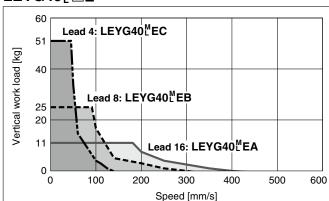


LEYG32^M□E



LEYG40^M□E

SMC



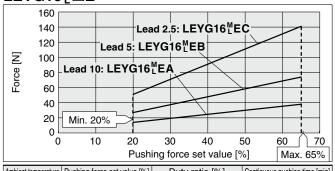
509



Force Conversion Graph (Guide)

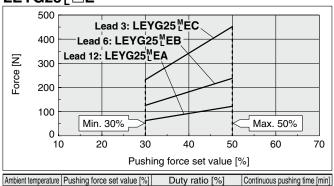
Battery-less Absolute (Step Motor 24 VDC)

LEYG16^M□E

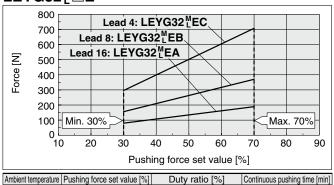


Ambient temperature	Pushing force set value [%]	Duty ratio [%]	Continuous pushing time [min]
30°C or less	65 or less	100	No restriction
	40 or less	100	No restriction
40°C	50	30	45 or less
40 C	60	18	15 or less
	65	15	10 or less

LEYG25^M□E



LEYG32^M□E



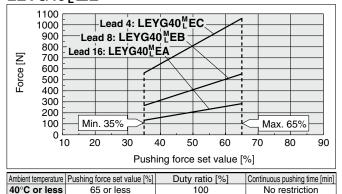
100

No restriction

LEYG40^M□E

70 or less

40°C or less



<Limit Values for Pushing Force and Trigger Level in Relation to Pushing Speed>

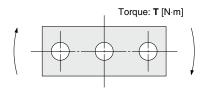
Model	Lead	Pushing speed [mm/s]	Pushing force (Setting input value)
LEYG16 ^M □E	A/B/C	21 to 50	45 to 65%
LEYG25 ^M □E	A/B/C	21 to 35	40 to 50%
LEYG32 ^M □E	Α	24 to 30	50 to 70%
LETG32LLE	B/C	21 to 30	50 10 70%
LEYG40 ^M □E	Α	24 to 30	50 to 65%
LETG40L LE	B/C	21 to 30	30 10 05%

<Set Values for Vertical Upward Transfer Pushing Operations>

Model	LEY	G16	[™] □E	LEY	G25	Ŭ□E	LEY	G32	<u>′</u> □E	LEY	'G40	Ľ□E
Lead	Α	В	С	Α	В	С	Α	В	С	Α	В	С
Work load [kg]	0.5	1	2.5	1.5	4	9	2.5	7	16	5	12	26
Pushing force		65%			50%			70%			65%	

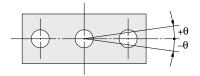


Allowable Rotational Torque of Plate: T



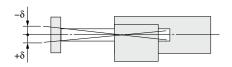
					T [N⋅m]
Model		•	Stroke [mm]	
Model	30	50	100	200	300
LEYG16M	0.70	0.57	1.05	0.56	_
LEYG16L	0.82	1.48	0.97	0.57	_
LEYG25M	1.56	1.29	3.50	2.18	1.36
LEYG25L	1.52	3.57	2.47	2.05	1.44
LEYG32M	2.55	2.09	5.39	3.26	1.88
LEYG32L	2.80	5.76	4.05	3.23	2.32
LEYG40M	2.55	2.09	5.39	3.26	1.88
LEYG40L	2.80	5.76	4.05	3.23	2.32

Non-rotating Accuracy of Plate: $\boldsymbol{\theta}$



Size	Non-rotating	g accuracy θ
Size	LEYG□M□E	LEYG□L□E
16	0.06°	0.05°
25	0.06	
32	0.05°	0.04°
40	0.05°	

Plate Displacement: $\boldsymbol{\delta}$



					[mm]
Model			Stroke [mm]		
iviodei	30	50	100	200	300
LEYG16M	±0.20	±0.25	±0.24	±0.27	_
LEYG16L	±0.13	±0.12	±0.17	±0.19	_
LEYG25M	±0.26	±0.31	±0.25	±0.38	±0.36
LEYG25L	±0.13	±0.13	±0.17	±0.20	±0.23
LEYG32M	±0.23	±0.29	±0.23	±0.36	±0.34
LEYG32L	±0.11	±0.11	±0.15	±0.19	±0.22
LEYG40M	±0.23	±0.29	±0.23	±0.36	±0.34
LEYG40L	±0.11	±0.11	±0.15	±0.19	±0.22

 $[\]ast\,$ The values without a load are shown.



Guide Rod Type

LEYG Series LEYG16, 25, 32, 40 €

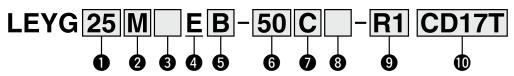




1343 and onward.

How to Order





For details on controllers, refer to the next page.

1 Size 16 25

> 32 40

Bearing type*				
M	Sliding bearing			
L	Ball bushing bearing			

Motor mounting position/Motor cover direction

Symbol	Motor mounting position	Motor cover direction
Nil	Top side parallel	_
D	In-line	*2
D1		Left*3
D2		Right*3
D3		Top*3
D4		Bottom*3

4 Motor type

Battery-less absolute (Step motor 24 VDC)

5 Lead [mm]

Symbol	LEYG16	LEYG25	LEYG32/40
Α	10	12	16
В	5	6	8
С	2.5	3	4

6 Stroke*4 *5 [mm]

Stroke		Note
Stroke	Size	Applicable stroke
30 to 200	16 30, 50, 100, 150, 200	
30 to 300	25/32/40	30, 50, 100, 150, 200, 250, 300

Motor option*6

С	With motor cover
W	With lock/motor cover

8 Guide option*7

Nil	Without option
F	With grease retaining function

Actuator cable type/length

Robotic	cable		[m]
Nil	None	R8	8*8
R1	1.5	RA	10*8
R3	3	RB	15*8
R5	5	BC	20*8

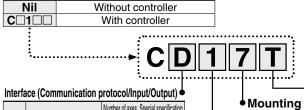
For details on auto switches, refer to pages 503 to 505.

Use of auto switches for the guide rod type LEYG series

- Auto switches must be inserted from the front side with the rod (plate) sticking out.
- Auto switches cannot be fixed with the parts hidden behind the guide attachment (the side of the rod that sticks out).
- Please consult with SMC when using auto switches on the side of the rod that sticks out, as it is produced as a special order.







Number of axes, Special specific	ration
O maked Town or Mills O	vailVII
Symbol Type Standard With S	
Staridard sub-fund	ction
5 Parallel input (NPN)	
6 Parallel input (PNP)	
E EtherCAT ● ●	
9 EtherNet/IP™ ● ●	
P PROFINET ● ●	
D DeviceNet® ●	
L IO-Link ● ●	
M CC-Link ●	

Screw mounting DIN rail

Number of axes, Special specification Symbol Number of axes | Specification Single axis Standard With STO F Single axis sub-function

Communication plug connector, I/O cable*10

Symbol	Type	Applicable interface
Nil	Without accessory	_
S	Straight type communication plug connector	DeviceNet [®]
Т	T-branch type communication plug connector	CC-Link Ver. 1.10
1	I/O cable (1.5 m)	Parallel input (NPN)
3	I/O cable (3 m)	Parallel input (PNP)
5	I/O cable (5 m)	raialiei liiput (FINF)

- *1 When [M: Sliding bearing] is selected, the maximum speed of lead [A] is 400 mm/s (at no-load, horizontal mounting). The speed is also restricted with a horizontal/moment load. Refer to the "Model Selection" on page 507.
- *2 Sizes 25, 32, and 40 only
- Size 16 only
- *4 Please contact SMC for non-standard strokes as they are produced as special orders.
- There is a limit for mounting size 16/32/40 top side parallel motor types and strokes of 50 mm or less. Refer to the dimensions.

 *6 When "With lock/motor cover" is selected for the top side parallel motor
- type, the motor body will stick out from the end of the body for size 16 with strokes of 50 mm or less and size 40 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.
- Only available for size 25, 32, and 40 sliding bearings (Refer to the "Construction" on page 538.)
- Produced upon receipt of order
 The DIN rail is not included. It must be ordered separately.
- Select "Nil" for anything other than DeviceNet®, CC-Link, or parallel
 - Select "Nil," "S," or "T" for DeviceNet® or CC-Link. Select "Nil," "1," "3," or "5" for parallel input.

[CE/UKCA-compliant products]

EMC compliance was tested by combining the electric actuator LEY series and the controller JXC series.

The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, compliance with the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result, it is necessary for the customer to verify compliance with the EMC directive for the machinery and equipment as a whole.

[Precautions relating to differences in controller versions]

When the JXC series is to be used in combination with the battery-less absolute encoder, use a controller that is version V3.4 or S3.4 or higher. For details, refer to pages 1077 and 1078.

[UL certification]

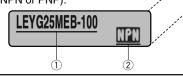
The JXC series controllers used in combination with electric actuators are UL certified.

The actuator and controller are sold as a package.

Confirm that the combination of the controller and actuator is correct.

<Check the following before use.>

- Check the actuator label for the model number. This number should match that of the controller
- Check that the Parallel I/O configuration matches (NPN or PNP).



Refer to the Operation Manual for using the products. Please download it via our website: https://www.smcworld.com

	Step data input type	EtherCAT direct input type	EtherCAT direct input type with STO sub-function	EtherNet/IP™ direct input type	EtherNet/IP™ direct input type with STO sub-function	PROFINET direct input type	PROFINET direct input type with STO sub-function	DeviceNet® direct input type	IO-Link direct input type	IO-Link direct input type with STO sub-function	CC-Link direct input type
Туре								Town Mark B. Co. St. To.			Charles
Series	JXC51 JXC61	JXCE1	JXCEF	JXC91	JXC9F	JXCP1	JXCPF	JXCD1	JXCL1	JXCLF	JXCM1
Features	Parallel I/O	EtherCAT direct input	EtherCAT direct input with STO sub-function	EtherNet/IP™ direct input	EtherNet/IP™ direct input with STO sub-function	PROFINET direct input	PROFINET direct input with STO sub-function	DeviceNet® direct input	IO-Link direct input	IO-Link direct input with STO sub-function	CC-Link direct input
Compatible motor	Battery-less absolute (Step motor 24 VDC)										
Max. number of											
step data						64 points					
Power supply voltage						24 VDC					
Reference page	1017					10	63				



Specifications

Battery-less Absolute (Step Motor 24 VDC)

		Mod	el	LE	YG16 [™]	Ē	LE	YG25 ^M □	ΞE	LE	YG32 ^M □	ΞE	LE	YG40 ^M □	ΞE
		Horizontal	Acceleration/Deceleration at 3000 [mm/s ²]	6	17	30	20	40	60	30	45	60	50	60	80
	Work load [kg]* ¹	nonzoniai	Acceleration/Deceleration at 2000 [mm/s ²]	10	23	35	30	55	70	40	60	80	60	70	90
S		Vertical	Acceleration/Deceleration at 3000 [mm/s ²]	1.5	3.5	7.5	7	15	29	9	20	41	11	25	51
<u>io</u>		force [N]	*2 *3 *4	14 to 38	27 to 74	51 to 141	63 to 122	126 to 238	232 to 452	80 to 189	156 to 370	296 to 707	132 to 283	266 to 553	562 to 1058
cat	Speed [n	nm/s]*4		15 to 500	8 to 250	4 to 125	18 to 500	9 to 250	5 to 125	24 to 500	12 to 300	6 to 150	24 to 500	12 to 300	6 to 150
ij	Max. acce	eleration/c	leceleration [mm/s ²]						30	00					
specifications	Pushing	speed [mm/s]* ⁵	Į.	50 or less	3	;	35 or less	3	;	30 or less	3		30 or less	3
			atability [mm]						±0.	02					
Actuator	Lost mo	tion [mn	n]* ⁶						0.1 o	r less					
텋	Screw le	ead [mm]]	10	5	2.5	12	6	3	16	8	4	16	8	4
4	Impact/V	ibration	resistance [m/s ²]*7						50/	20					
	Actuation	n type							(LEYG□□		,			-	
	Guide ty	/pe				SI	iding bea	ring (LEY	G□M), Ba	all bushin	g bearing	(LEYG□	lL)		
	Operatir	ng temp.	range [°C]						5 to	40					
	Operatir	ng humic	lity range [%RH]					90 or	less (No	condensa	ation)				
	Enclosu	ire							IP	40					
စ္	Motor si	ize			□28			□42			□56.4			□56.4	
Electric pecifications	Motor ty	/ре					Ва	ttery-less	absolute	(Step mo	tor 24 VD	OC)			
Electric	Encode	r						E	Battery-les		е				
Spec			ltage [V]				1		24 VDC	±10%					
	Power [W] *8 *10		Ма	x. power	43	Ma	ax. power			x. power	104	Ma	x. power	106
Lock unit specifications	Type*9					Г	T		on-magn			Г		1	
k un	Holding	force [N]	20	39	78	78	157	294	108	216	421	127	265	519
Loc	Power [2.9			5			5			5	
S	Rated vo	oltage [V]						24 VDC	2 ±10%					

- *1 Horizontal: An external guide is necessary to support the load (Friction coefficient of guide: 0.1 or less). The actual work load and transfer speed change according to the condition of the external guide. Also, speed changes according to the work load. Check the "Model Selection" on pages 507 to 509. Vertical: Speed changes according to the work load. Check the "Model Selection" on pages 507 to 509. Set the acceleration/deceleration values to be 3000 [mm/s²] or less.
- *2 Pushing force accuracy is ±20% (F.S.).
- *3 The pushing force values for LEYG16□□E are 20% to 65%, for LEYG25□□E are 30% to 50%, for LEYG32□□E are 30% to 70%, and for LEYG40□□E are 35% to 65%.
 - The pushing force values change according to the duty ratio and pushing speed. Check the "Model Selection" on page 510.
- *4 The speed and force may change depending on the cable length, load and mounting conditions. Furthermore, if the cable length exceeds 5 m, then it will decrease by up to 10% for each 5 m. (At 15 m: Reduced by up to 20%)
 - When [M: Sliding bearing] is selected, the maximum speed of lead [A] is 400 mm/s (at no-load, horizontal mounting). The speed is also restricted with a horizontal/moment load. For details, refer to the "Model Selection" on page 508.
- *5 The allowable speed for the pushing operation
- $\ast 6~$ A reference value for correcting errors in reciprocal operation
- *7 Impact resistance: No malfunction occurred when it was tested with a drop tester in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)
 - Vibration resistance: No malfunction occurred in a test ranging between 45 to 2000 Hz. The test was performed in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)
- *8 Indicates the max. power during operation (including the controller). This value can be used for the selection of the power supply.
- *9 With lock only
- *10 For an actuator with lock, add the power for the lock.



Weight

Weight: Top Side Parallel Motor Type

Series		LE,	/G16M	ΠE				LE'	/G25M	□E					LE	/G32M	□E		
Stroke [mm]	30	50	100	150	200	30	50	100	150	200	250	300	30	50	100	150	200	250	300
Product weight [kg]	1	1.14	1.37	1.66	1.83	1.7	1.89	2.21	2.63	2.97	3.31	3.57	2.95	3.21	3.76	4.32	4.99	5.48	5.92

Series								LE'	YG25L	□E					LE'	YG32L	□E		
Stroke [mm]	30	50	100	150	200	30	50	100	150	200	250	300	30	50	100	150	200	250	300
Product weight [kg]	1.01	1.14	1.31	1.6	1.75	1.71	1.92	2.16	2.59	2.85	3.17	3.41	2.95	3.22	3.61	4.16	4.7	5.21	5.6

Series			LE'	G40N	IΠE					LE'	YG40L	.□E		
Stroke [mm]	30	50	100	150	200	250	300	30	50	100	150	200	250	300
Product weight [kg]	3.26	3.52	4.07	4.63	5.3	5.79	6.23	3.26	3.53	3.92	4.47	5.01	5.52	5.91

Weight: In-line Motor Type

			<u> </u>																
Series		LE'	YG16N	IΠE				LE'	/G25M	□E					LE'	YG32N	□E		
Stroke [mm]	30	50	100	150	200	30	50	100	150	200	250	300	30	50	100	150	200	250	300
Product weight [kg]	0.97	1.11	1.34	1.68	1.8	1.09	1.88	2.20	2.62	2.96	3.30	3.56	2.96	3.20	3.75	4.81	4.98	5.47	5.91

Series		LE'	YG16L	□Е				LE'	YG25L	□E					LE'	YG32L	□E		
Stroke [mm]	30	50	100	150	200	30	50	100	150	200	250	300	30	50	100	150	200	250	300
Product weight [kg]	0.98	1.11	1.28	1.57	1.72	1.70	1.91	2.15	2.58	2.84	3.16	3.40	2.54	3.21	3.60	4.15	4.69	5.20	5.59

Series			LE	G40M	I□E					LE'	YG40L	□Е		
Stroke [mm]	30	50	100	150	200	250	300	30	50	100	150	200	250	300
Product weight [kg]	3.25	3.51	4.06	4.62	5.25	5.78	6.22	3.25	3.52	3.91	4.46	5.00	5.51	5.90

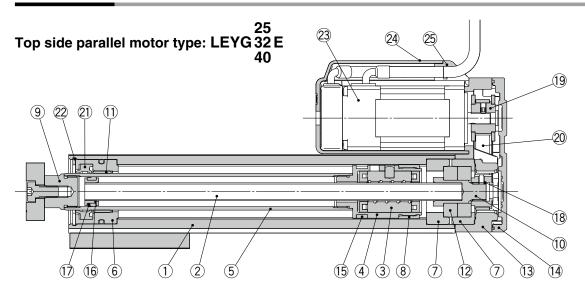
Additional Weight

Additional Weight (kg)								
Size	16	25	32	40				
Lock/Motor cover	0.16	0.29	0.57	0.57				

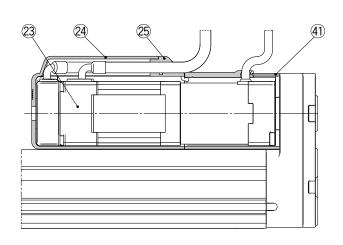




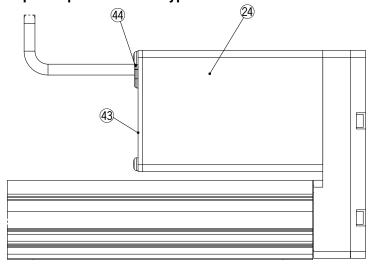
Construction



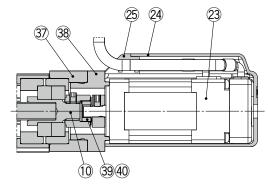
Top side parallel motor type, With lock/motor cover



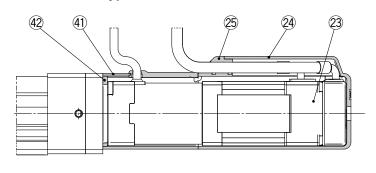
Top side parallel motor type: LEYG16E



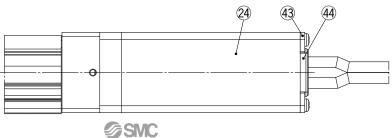
In-line motor type



In-line motor type, With lock/motor cover

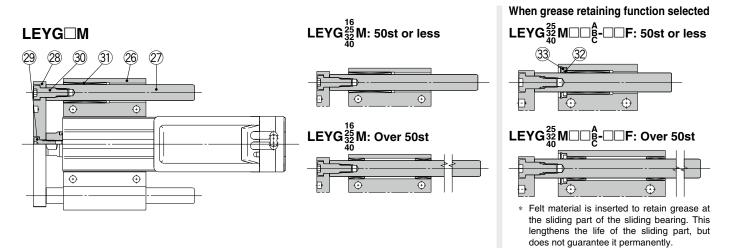


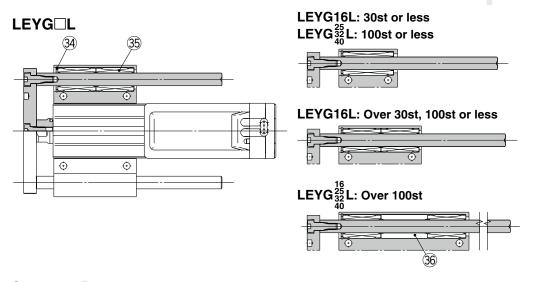
In-line motor type: LEYG16E





Construction





Component Parts

	p		
No.	Description	Material	Note
1	Body	Aluminum alloy	Anodized
2	Ball screw shaft	Alloy steel	
3	Ball screw nut	Synthetic resin/Alloy steel	
4	Piston	Aluminum alloy	
5	Piston rod	Stainless steel	Hard chrome plating
6	Rod cover	Aluminum alloy	
7	Bearing holder	Aluminum alloy	
8	Rotation stopper	Synthetic resin	
9	Socket	Free cutting carbon steel	Nickel plating
10	Connected shaft	Free cutting carbon steel	Nickel plating
11	Bushing	Bearing alloy	
12	Bearing	_	
13	Return box	Aluminum die-cast	Coating
14	Return plate	Aluminum die-cast	Coating
15	Magnet	_	
16	Wear ring holder	Stainless steel	Stroke 101 mm or more
17	Wear ring	Synthetic resin	Stroke 101 mm or more
18	Screw shaft pulley	Aluminum alloy	
19	Motor pulley	Aluminum alloy	
20	Belt	_	
21	Seal	NBR	
22	Retaining ring	Steel for spring	Phosphate coating
23	Motor	_	
24	Motor cover	Aluminum alloy	Anodized/LEY16 only
	Woldi Covei	Synthetic resin	
25	Grommet	Synthetic resin	Only "With motor cover"
26	Guide attachment	Aluminum alloy	Anodized
27	Guide rod	Carbon steel	

No.	Description	Material	Note
28	Plate	Aluminum alloy	Anodized
29	Plate mounting cap screw	Carbon steel	Nickel plating
30	Guide cap screw	Carbon steel	Nickel plating
31	Sliding bearing	Bearing alloy	
32	Lube-retainer	Felt	
33	Holder	Synthetic resin	
34	Retaining ring	Steel for spring	Phosphate coating
35	Ball bushing	_	
36	Spacer	Aluminum alloy	Chromating
37	Motor block	Aluminum alloy	Anodized
38	Motor adapter	Aluminum alloy	Anodized/LEY16, 25 only
39	Hub	Aluminum alloy	
40	Spider	NBR	
41	Motor cover with lock	Aluminum alloy	Only "With lock/motor cover"/LEY25, 32, 40
42	Cover support	Aluminum alloy	Only "With lock/motor cover"/LEY25, 32, 40
43	End cover	Aluminum alloy	Anodized/LEY16 only
44	Rubber bushing	NBR	LEY16 only

Replacement Parts/Belt

No.	Size	Order no.
	16	LE-D-2-7
20	25	LE-D-2-2
	32. 40	LE-D-2-3

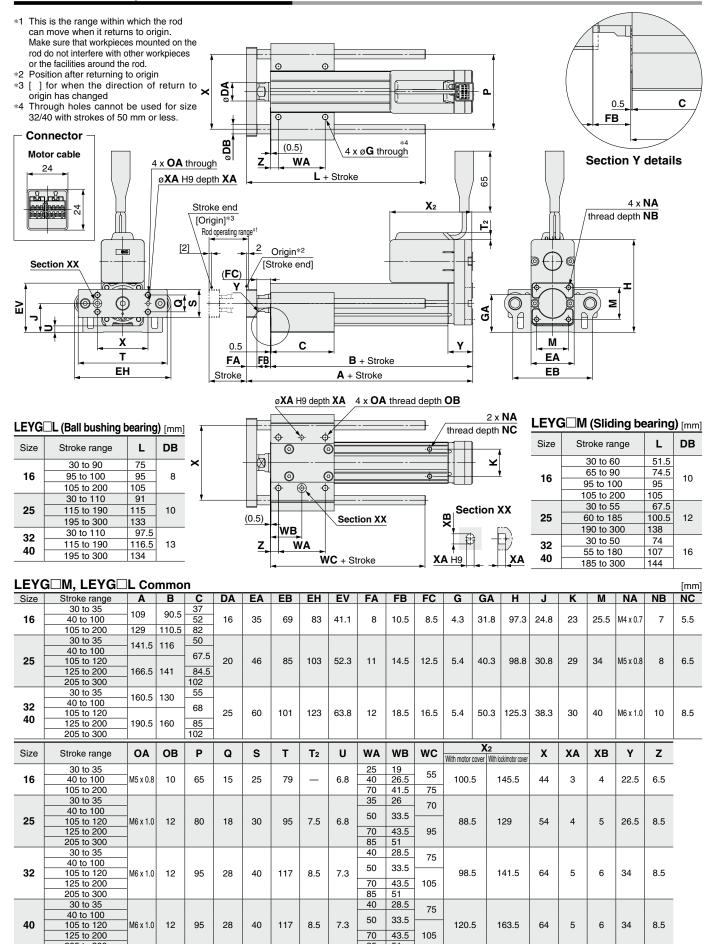
Replacement F	Parts/Grease Pack
Applied parties	Order no

Applied portion	Order no.
Piston rod	GR-S-010 (10 g)
Guide rod	GR-S-020 (20 g)





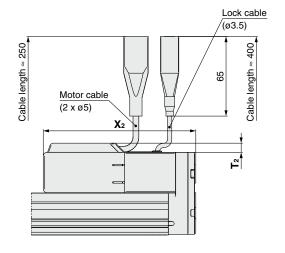
Dimensions: Top Side Parallel Motor

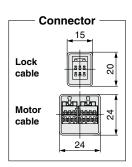




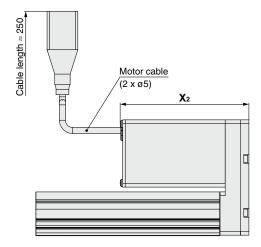
Dimensions: Top Side Parallel Motor

25 A With lock/motor cover: LEYG32E□B-□W 40 C

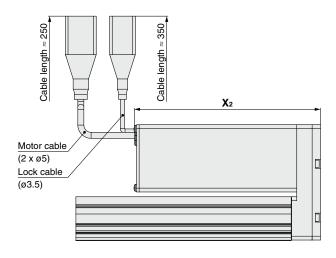




With motor cover: LEYG16EB-□C



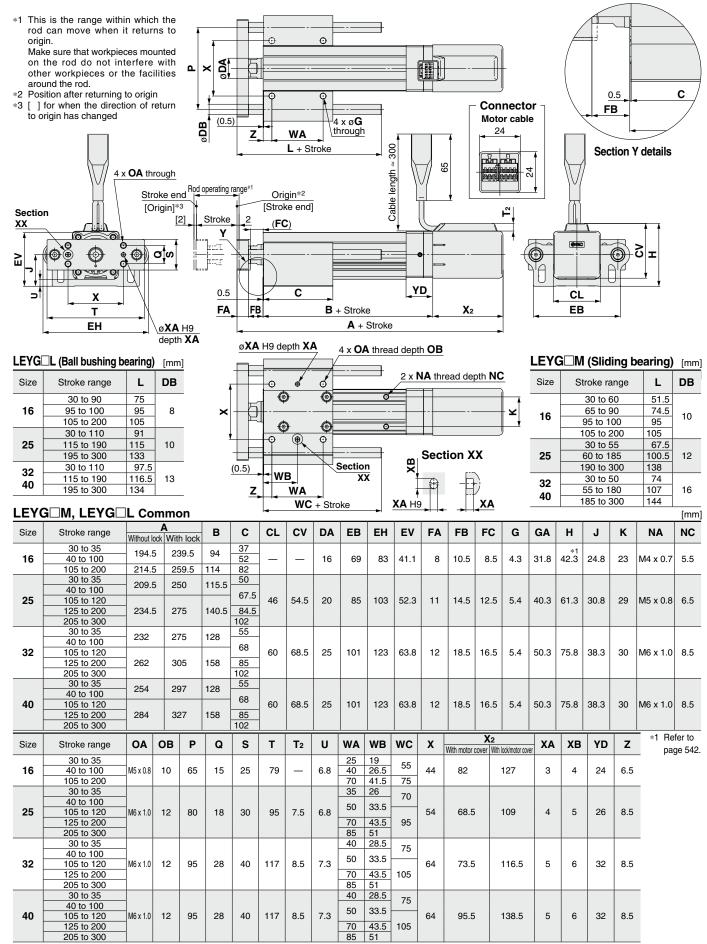
A With lock/motor cover: LEYG16EB-□W C







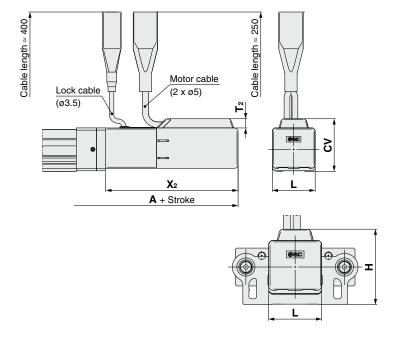
Dimensions: In-line Motor

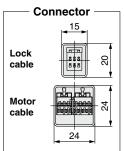




Dimensions: In-line Motor

25 A With lock/motor cover: LEYG32DE□B-□W 40 C

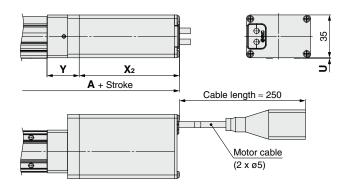




						[mm]
Size	Stroke range	T ₂	X 2	L	Н	CV
16	Up to 100	7.5	108	35	*1	
10	105 to 200	7.5	100	33	42.3	
25	Up to 100	7.5	109	46	61.3	54.4
23	105 to 300	7.5				
32	Up to 100	7.5	116.5	60	75.8	68.5
32	105 to 300	7.5	110.5			06.5
40	Up to 100	7.5	138.5	60	75.8	68.5
40	105 to 300	7.5			75.6	06.5

^{*1} Refer to the table below.

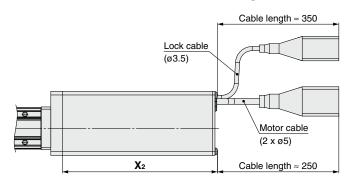
With motor cover: LEYG16D□EB-□C



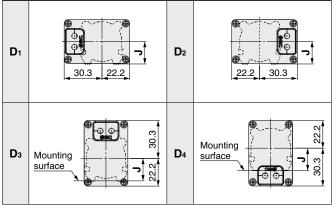
H Dimensions (Size 16)

Motor cover direction	Н
D ₁	42.3
D ₂	42.3
D ₃	55.1
D ₄	47

With lock/motor cover: LEYG16D□EB-□W



Motor Cover Direction



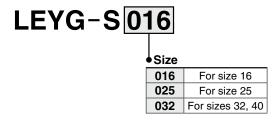


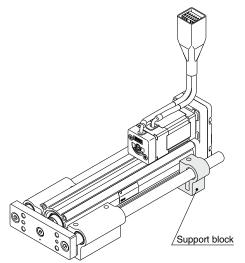
Support Block

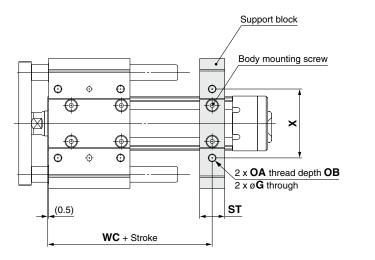
Guide for support block application

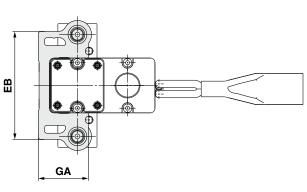
When the stroke exceeds 100 mm and the mounting orientation is horizontal, the body will be bent. Mounting the support block is recommended. (Please order it separately from the models shown below.)

Support Block Model









⚠ Caution

Do not install the body using only a support block. The support block should be used only for support.

										[mm]
Size	Model	Stroke range	EB	G	GA	OA	ОВ	ST	wc	X
16	LEYG-S016	Up to 100	69	4.3	31.8	M5 x 0.8	10	16	55	44
10	LE1G-3010	105 to 200	09	4.3	31.0	IVIO X U.O	10	10	75	44
25	LEYG-S025	Up to 100	85	5.4	40.3	M6 x 1.0	12	20	70	54
25	LE1G-5025	105 to 300	65	5.4	40.3	IVIO X 1.U	12	20	95	34
32	LEYG-S032	Up to 100	101	(5.4)	(50.3)	M6 x 1.0	12	22	75	64
40	LE 1 G-3032	105 to 300	101	(5.4)	(50.5)	IVIO X 1.U	12	22	105	04

* Two body mounting screws are included with the support block.

* The through holes of the LEYG-S032 cannot be used for the top side parallel motor type. Use taps on the bottom.





LEY/LEYG Series

Battery-less Absolute Encoder Type Specific Product Precautions

Be sure to read this before handling the products. Refer to page 1351 for safety instructions and pages 1352 to 1357 for electric actuator precautions.

Handling

⚠ Caution

1. Absolute encoder ID mismatch error at the first connection

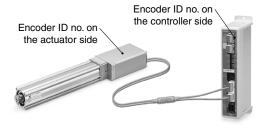
In the following cases, an "ID mismatch error" alarm occurs after the power is turned ON. Perform a return to origin operation after resetting the alarm before use.

- When an electric actuator is connected and the power is turned ON for the first time after purchase*1
- · When the actuator or motor is replaced
- · When the controller is replaced
- *1 If you have purchased an electric actuator and controller with the set part number, the pairing may have already been completed and the alarm may not be generated.

"ID mismatch error"

Operation is enabled by matching the encoder ID on the electric actuator side with the ID registered in the controller. This alarm occurs when the encoder ID is different from the registered contents of the controller. By resetting this alarm, the encoder ID is registered (paired) to the controller again.

When a controller is changed after pairing is completed								
	Encoder ID no. (* Numbers below are examples.)							
Actuator	17623 17623 17623 17623							
Controller	17623	17699	17699 17623					
ID mismatch error occurred?	No	Yes	Error res	et ⇒ No				



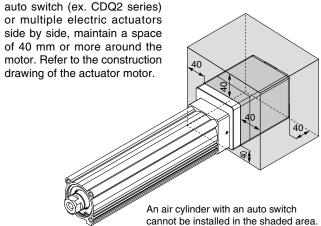
The ID number is automatically checked when the control power supply is turned ON.

An error is output if the ID number does not match.

In environments where strong magnetic fields are present, use may be limited.

A magnetic sensor is used in the encoder. Therefore, if the actuator motor is used in an environment where strong magnetic fields are present, malfunction or failure may occur. Do not expose the actuator motor to magnetic fields with a magnetic flux density of 1 mT or more.

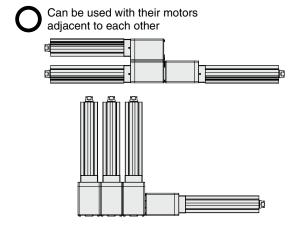
When installing an electric actuator and an air cylinder with an



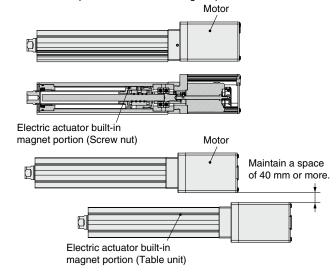
When lining up actuators

SMC actuators can be used with their motors adjacent to each other. However, for actuators with a built-in auto switch magnet, maintain a space of 40 mm or more between the motors and the position where the magnet passes.

For the LEY series, the magnet is in the piston portion. (Refer to the construction drawings in the catalog for details.)

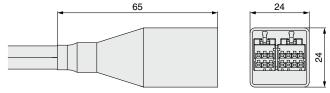


Do not allow the motors to be in close proximity to the position where the magnet passes.



The connector size of the motor cable is different from that of the electric actuator with an incremental encoder.

The motor cable connector of an electric actuator with a battery-less absolute encoder is different from that of an electric actuator with an incremental encoder. As the connector cover dimensions are different, take the dimensions below into consideration during the design process.



Battery-less absolute encoder connector cover dimensions

