

Electric Actuator Guide Rod Type

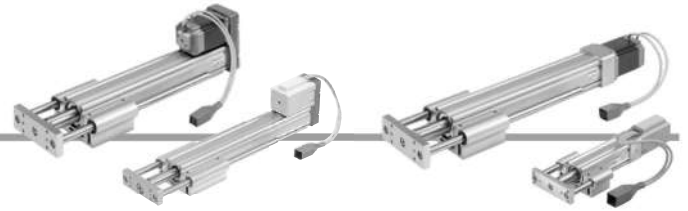
LEYG Series LEYG16, 25, 32, 40



* For details, refer to page 307 and onward.

RoHS

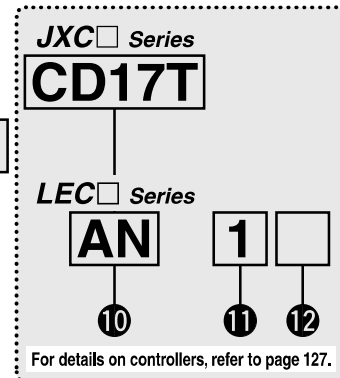
How to Order

Motor mounting position:
Parallel

Motor mounting position: In-line

LEYG **16** **M** **B** - **50** - **S1**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨



① Size

16
25
32
40

② Bearing type*1

M	Sliding bearing
L	Ball bushing bearing

③ Motor mounting position

Nil	Top side parallel
D	In-line

④ Motor type

Symbol	Type	Applicable size			Compatible controllers/ drivers
		LEYG16	LEYG25	LEYG32/40	
Nil	Step motor (Servo/24 VDC)	●	●	●	JXC51 JXCD1 JXCPF JXC61 JXCL1 JXCLF JXCE1 JXCM1 JXC91 JXCEF LECP1 JXCP1 JXC9F LECPA
A	Servo motor (24 VDC)	●	●	—	LECA6

⑤ Lead [mm]

Symbol	LEYG16	LEYG25	LEYG32/40
A	10	12	16
B	5	6	8
C	2.5	3	4

⑥ Stroke*2 *3 [mm]

30	30
to	to
300	300

⑦ Motor option*4

Nil	Without option
C	With motor cover
B	With lock
W	With lock/motor cover

⑧ Guide option*5

Nil	Without option
F	With grease retaining function

* For details, refer to the applicable stroke table below.

⑨ Actuator cable type/length*7

Standard cable [m]		Robotic cable [m]			
Nil	None	R1	1.5	RA	10*6
S1	1.5*9	R3	3	RB	15*6
S3	3*9	R5	5	RC	20*6
S5	5*9	R8	8*6		

Applicable Stroke Table*2

Model	Stroke [mm]	30	50	100	150	200	250	300	Manufacturable stroke range [mm]
		LEYG16	●	●	●	●	●	—	
LEYG25	●	●	●	●	●	●	●	15 to 300	
LEYG32/40	●	●	●	●	●	●	●	20 to 300	

●: Standard

For auto switches, refer to pages 105 to 107.

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 contact SMC when using auto switches on the side of the rod that sticks out, as it is produced as a special order.

Electric Actuator Guide Rod Type **LEYG Series**

Step Motor (Servo/24 VDC) Servo Motor (24 VDC)

Model Selection

LEY

LEYG

LEY

LEYG

LEY-X7

LEY-X5

25A-LEY

JXC51/61

LECA6

LECA-G

LECP1

LECPA

JXC□

LECS□

LECY□

AC Servo Motor

Specific Product Precautions

JXC□ Series (For details, refer to page 127.)

10 Controller

Nil	Without controller
C□1□□	With controller

C D 1 7 T

Interface (Communication protocol/Input/Output)

Symbol	Type	Number of axes, Special specification	
		Standard	With STO sub-function
5	Parallel input (NPN)	●	
6	Parallel input (PNP)	●	
E	EtherCAT	●	●
9	EtherNet/IP™	●	●
P	PROFINET	●	●
D	DeviceNet®	●	
L	IO-Link	●	●
M	CC-Link	●	

Mounting

7	Screw mounting
8*13	DIN rail

Number of axes, Special specification

Symbol	Number of axes	Specification
1	Single axis	Standard
F	Single axis	With STO sub-function

Communication plug connector, I/O cable*14

Symbol	Type	Applicable interface
Nil	Without accessory	—
S	Straight type communication plug connector	DeviceNet™
T	T-branch type communication plug connector	CC-Link Ver. 1.10
1	I/O cable (1.5 m)	Parallel input (NPN) Parallel input (PNP)
3	I/O cable (3 m)	
5	I/O cable (5 m)	

LEC□ Series (For details, refer to page 127.)

A N 1 □

10 11 12

10 Controller/Driver type*8

Nil	Without controller/driver	
6N	LECA6	NPN
6P		(Step data input type)
1N	LECP1 *9	NPN
1P		(Programless type)
AN	LECPA *9 *10	NPN
AP		(Pulse input type)

11 I/O cable length*11

Nil	Without cable (Without communication plug connector)	
1	1.5 m	
3	3 m*12	
5	5 m*12	

12 Controller/Driver mounting

Nil	Screw mounting
D	DIN rail*13

- *1 When [M: Sliding bearing] is selected, the max. 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 110.
- *2 Please contact SMC for non-standard strokes as they are produced as special orders.
- *3 There is a limit for mounting the size 32/40 top side parallel motor types and strokes of 50 mm or less.
- *4 When "With lock" or "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 16/40 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.
- *5 Only available for size 25, 32, and 40 sliding bearings (Refer to the "Construction" on page 132.)
- *6 Produced upon receipt of order (Robotic cable only)
- *7 The standard cable should only be used on fixed parts. For use on moving parts, select the robotic cable. Refer to pages 258 and 259 if only the actuator cable is required.
- *8 For details on controllers/drivers and compatible motors, refer to the compatible controllers/drivers on the next page.

- *9 Only available for the motor type "Step motor"
- *10 When pulse signals are open collector, order the current limiting resistor (LEC-PA-R□) on page 240 separately.
- *11 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. Refer to page 224 (For LECA6), page 234 (For LECP1), or page 240 (For LECPA) if I/O cable is required.
- *12 When "Pulse input type" is selected for controller/driver types, pulse input usable only with differential. Only 1.5 m cables usable with open collector
- *13 The DIN rail is not included. It must be ordered separately.
- *14 Select "Nil" for anything other than DeviceNet™, CC-Link, or parallel input. Select "Nil," "S," or "T" for DeviceNet™ or CC-Link. Select "Nil," "1," "3," or "5" for parallel input.

⚠ Caution

[CE-compliant products]

- ① EMC compliance was tested by combining the electric actuator LEY series and the controller LEC/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.
- ② For the servo motor (24 VDC) specification, EMC compliance was tested by installing a noise filter set (LEC-NFA). Refer to page 224 for the noise filter set. Refer to the LECA series Operation Manual for installation.

[UL-compliant products (For the LEC series)]

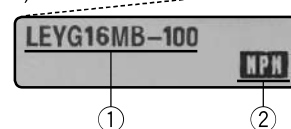
When compliance with UL is required, the electric actuator and controller/driver should be used with a UL1310 Class 2 power supply.

The actuator and controller/driver are sold as a package.

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

<Check the following before use.>

- ① Check the actuator label for the model number. This number should match that of the controller/driver.
- ② 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>











LEYG Series

Step Motor (Servo/24 VDC)

Servo Motor (24 VDC)

Compatible Controllers/Drivers

Type	Step data input type 	Step data input type 	Programless type 	Pulse input type 
Series	JXC51 JXC61	LECA6	LECP1	LECPA
Features	Parallel I/O	Parallel I/O	Capable of setting up operation (step data) without using a PC or teaching box	Operation by pulse signals
Compatible motor	Step motor (Servo/24 VDC)	Servo motor (24 VDC)	Step motor (Servo/24 VDC)	
Max. number of step data	64 points		14 points	—
Power supply voltage	24 VDC			
Reference page	211	218	229	235

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 
Series	JXCE1	JXCEF	JXC91	JXC9F	JXCP1	JXC PF	JXCD1	JXCL1	JXCLF	JXCM1
Features	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	Step motor (Servo/24 VDC)									
Max. number of step data	64 points									
Power supply voltage	24 VDC									
Reference page	241									

Specific Product Precautions	AC Servo Motor		Step Motor (Servo/24 VDC)/Servo Motor (24 VDC)				Environment			AC Servo Motor		Step Motor (Servo/24 VDC)/Servo Motor (24 VDC)		Model Selection
	LECY	LECS	JXC	LECPA	LECP1	LEC-G	LECA6	JXC51/61	25A-LEY	LEY-X5	LEY-X7	LEYG	LEY	

LEYG Series

Step Motor (Servo/24 VDC)

Servo Motor (24 VDC)

Specifications

Step Motor (Servo/24 VDC)

Model		LEYG16 ^M			LEYG25 ^M			LEYG32 ^M			LEYG40 ^M				
Actuator specifications	Work load [kg]*1	Horizontal (JXC□1, JXC□F, LECP1)	Acceleration/Deceleration at 3000 [mm/s ²]	6	17	30	20	40	60	30	45	60	50	60	80
			Acceleration/Deceleration at 2000 [mm/s ²]	10	23	35	30	55	70	40	60	80	60	70	90
	Horizontal (LECPA, JXC□3)	Acceleration/Deceleration at 3000 [mm/s ²]	4	11	20	12	30	30	20	40	40	30	60	60	
		Acceleration/Deceleration at 2000 [mm/s ²]	6	17	30	18	50	50	30	60	60	—	—	—	
	Vertical	Acceleration/Deceleration at 3000 [mm/s ²]	1.5	3.5	7.5	7	15	29	9	20	41	11	25	51	
Pushing 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		
Speed [mm/s]*4	JXC□1/LECP1	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 350	6 to 175		
	LECPA/JXC□3								12 to 250	6 to 125	24 to 300	12 to 150	6 to 75		
Max. acceleration/deceleration [mm/s ²]		3000													
Pushing speed [mm/s]**5		50 or less			35 or less			30 or less			30 or less				
Positioning repeatability [mm]		±0.02													
Lost motion [mm]**6		0.1 or less													
Screw lead [mm]		10	5	2.5	12	6	3	16	8	4	16	8	4		
Impact/Vibration resistance [m/s ²]*7		50/20													
Actuation type		Ball screw + Belt (LEYG□□□), Ball screw (LEYG□□□D)													
Guide type		Sliding bearing (LEYG□□M), Ball bushing bearing (LEYG□□L)													
Operating temp. range [°C]		5 to 40													
Operating humidity range [%RH]		90 or less (No condensation)													
Electric specifications	Motor size	□28			□42			□56.4			□56.4				
	Motor type	Step motor (Servo/24 VDC)													
	Encoder	Incremental													
	Power supply voltage [V]	24 VDC ±10%													
Lock unit specifications	Power [W]**8 *10	Max. power 43			Max. power 48			Max. power 104			Max. power 106				
	Type*9	Non-magnetizing lock													
	Holding force [N]	20	39	78	78	157	294	108	216	421	127	265	519		
	Rated voltage [V]	24 VDC ±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 111 and 112.

Vertical: Speed changes according to the work load. Check the "Model Selection" on pages 111 and 112.
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□□ are 35% to 85%, for LEYG25□□ are 35% to 65%, for LEYG32□□ are 35% to 85%, and for LEYG40□□ are 35% to 65%. The pushing force values change according to the duty ratio and pushing speed. Check the "Model Selection" on page 114.

*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 max. 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 110.

*5 The allowable speed for the pushing operation

*6 A reference value for correcting errors in reciprocal operation

*7 Impact resistance: No malfunction occurred when the actuator 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.

Specifications

Servo Motor (24 VDC)

Model		LEYG16 ^M □A			LEYG25 ^M □A					
Work load [kg]*1	Horizontal	Acceleration/Deceleration at 3000 [mm/s ²]			3	6	12	7	15	30
	Vertical	Acceleration/Deceleration at 3000 [mm/s ²]			1.5	3.5	7.5	2	5	11
Pushing force [N]*2 *3		16 to 30	30 to 58	57 to 111	18 to 35	37 to 72	66 to 130			
Speed [mm/s]		1 to 500	1 to 250	1 to 125	2 to 500	1 to 250	1 to 125			
Max. acceleration/deceleration [mm/s ²]		3000								
Pushing speed [mm/s]*4		50 or less			35 or less					
Positioning repeatability [mm]		±0.02								
Lost motion [mm]*5		0.1 or less								
Screw lead [mm]		10	5	2.5	12	6	3			
Impact/Vibration resistance [m/s ²]*6		50/20								
Actuation type		Ball screw + Belt (LEYG□□□), Ball screw (LEYG□□□D)								
Guide type		Sliding bearing (LEYG□□M), Ball bushing bearing (LEYG□□L)								
Operating temp. range [°C]		5 to 40								
Operating humidity range [%RH]		90 or less (No condensation)								
Motor size		□28			□42					
Motor output [W]		30			36					
Motor type		Servo motor (24 VDC)								
Encoder		Incremental								
Power supply voltage [V]		24 VDC ±10%								
Power [W]*7 *9		Max. power 59			Max. power 96					
Type*8		Non-magnetizing lock								
Holding force [N]		20	39	78	78	157	294			
Power [W]*9		2.9			5					
Rated voltage [V]		24 VDC ±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. Vertical: Check the "Model Selection" on page 113 for details. Set the acceleration/deceleration values to be 3000 [mm/s²] or less.
- *2 Pushing force accuracy is ±20% (F.S.).
- *3 The thrust setting values for LEYG16□□ are 60% to 95% and for LEYG25□□ are 70% to 95%. The pushing force values change according to the duty ratio and pushing speed. Check the "Model Selection" on page 114.
- *4 The allowable speed for the pushing operation
- *5 A reference value for correcting errors in reciprocal operation
- *6 Impact resistance: No malfunction occurred when the actuator 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.)
- *7 Indicates the max. power during operation (including the controller). This value can be used for the selection of the power supply.
- *8 With lock only
- *9 For an actuator with lock, add the power for the lock.

Weight

Weight: Top Side Parallel Motor Type

Model		LEYG16M					LEYG25M					LEYG32M								
Stroke [mm]		30	50	100	150	200	30	50	100	150	200	250	300	30	50	100	150	200	250	300
Product weight [kg]	Step motor	0.83	0.97	1.20	1.49	1.66	1.67	1.86	2.18	2.60	2.94	3.28	3.54	2.91	3.17	3.72	4.28	4.95	5.44	5.88
	Servo motor	0.83	0.97	1.20	1.49	1.66	1.63	1.82	2.14	2.56	2.90	3.24	3.50	—	—	—	—	—	—	—

Model		LEYG16L					LEYG25L					LEYG32L								
Stroke [mm]		30	50	100	150	200	30	50	100	150	200	250	300	30	50	100	150	200	250	300
Product weight [kg]	Step motor	0.84	0.97	1.14	1.43	1.58	1.68	1.89	2.13	2.56	2.82	3.14	3.38	2.91	3.18	3.57	4.12	4.66	5.17	5.56
	Servo motor	0.84	0.97	1.14	1.43	1.58	1.64	1.85	2.09	2.52	2.78	3.10	3.34	—	—	—	—	—	—	—

Model		LEYG40M					LEYG40L								
Stroke [mm]		30	50	100	150	200	250	300	30	50	100	150	200	250	300
Product weight [kg]	Step motor	3.21	3.47	4.02	4.58	5.25	5.74	6.18	3.21	3.48	3.87	4.42	4.96	5.47	5.86
	Servo motor	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Weight: In-line Motor Type

Model		LEYG16M					LEYG25M					LEYG32M								
Stroke [mm]		30	50	100	150	200	30	50	100	150	200	250	300	30	50	100	150	200	250	300
Product weight [kg]	Step motor	0.83	0.97	1.20	1.49	1.66	1.66	1.85	2.17	2.59	2.93	3.27	3.53	2.90	3.16	3.71	4.27	4.94	5.43	5.87
	Servo motor	0.83	0.97	1.20	1.49	1.66	1.62	1.81	2.13	2.55	2.89	3.23	3.49	—	—	—	—	—	—	—

Model		LEYG16L					LEYG25L					LEYG32L								
Stroke [mm]		30	50	100	150	200	30	50	100	150	200	250	300	30	50	100	150	200	250	300
Product weight [kg]	Step motor	0.84	0.97	1.14	1.43	1.58	1.67	1.88	2.12	2.55	2.81	3.13	3.37	2.90	3.17	3.56	4.11	4.65	5.16	5.55
	Servo motor	0.84	0.97	1.14	1.43	1.58	1.63	1.84	2.08	2.51	2.77	3.09	3.33	—	—	—	—	—	—	—

Model		LEYG40M					LEYG40L								
Stroke [mm]		30	50	100	150	200	250	300	30	50	100	150	200	250	300
Product weight [kg]	Step motor	3.20	3.46	4.01	4.57	5.24	5.73	6.17	3.20	3.47	3.86	4.41	4.95	5.46	5.85
	Servo motor	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Additional Weight

Size	16	25	32	40
Lock	0.12	0.26	0.53	0.53
Motor cover	0.02	0.03	0.04	0.05
Lock/Motor cover	0.16	0.32	0.61	0.62

Model Selection

LEYG

LEYG

LEYG

LEYG

LEYG-X7

LEYG-X5

25A-LEYG

JXC51/61

LECA6

LECG

LECP1

LECPA

JXC□

LECS□

LECY□

Specific Product Precautions

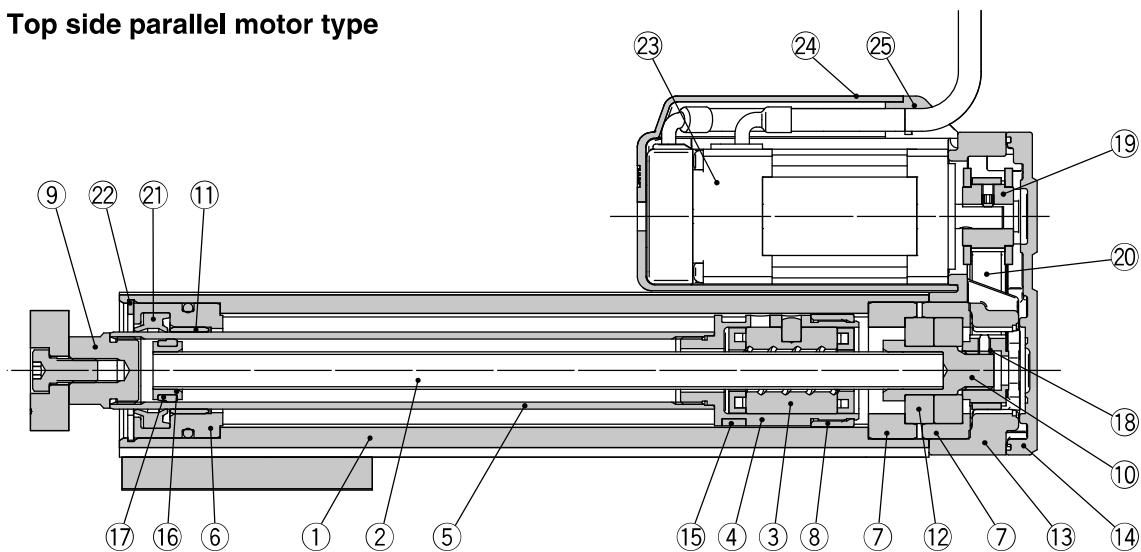
LEYG Series

Step Motor (Servo/24 VDC)

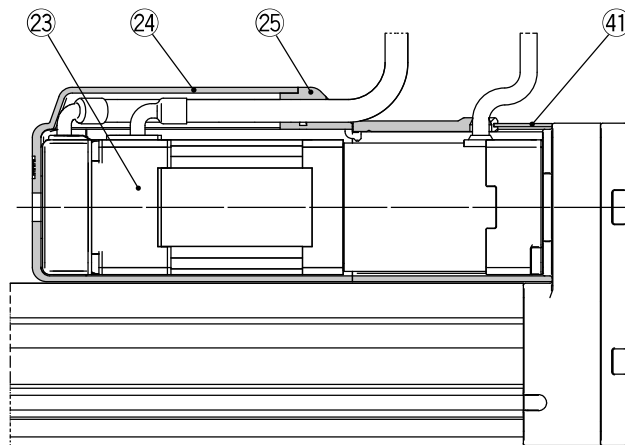
Servo Motor (24 VDC)

Construction

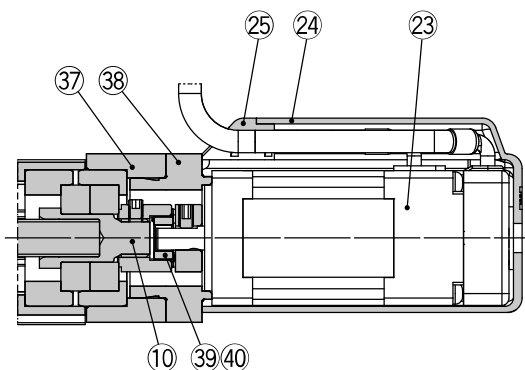
Top side parallel motor type



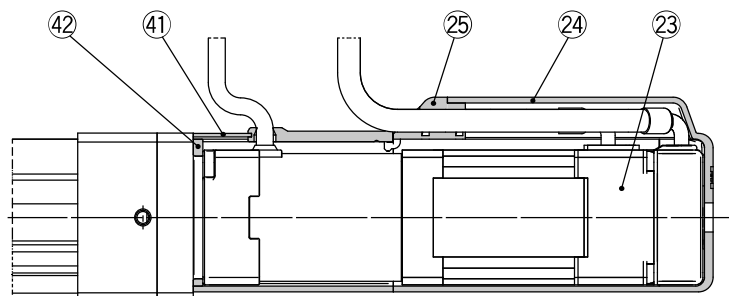
Top side parallel motor type With lock/motor cover



In-line motor type

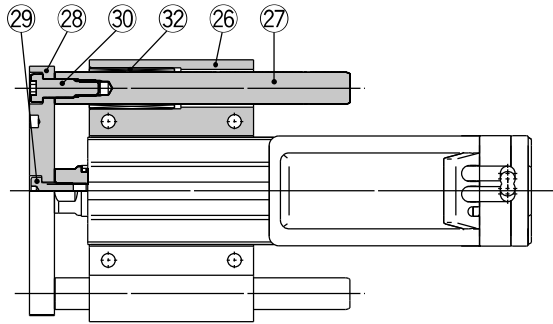


In-line motor type With lock/motor cover

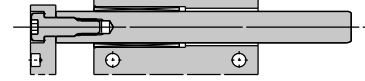


Construction

LEYG□M



LEYG¹⁶₂₅₃₂₄₀M: 50st or less

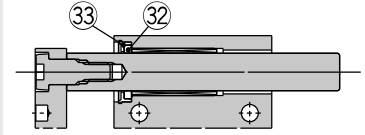


LEYG¹⁶₂₅₃₂₄₀M: Over 50st

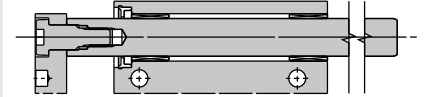


When grease retaining function selected

LEYG²⁵₃₂₄₀M□□^A_B_C-□□F: 50st or less

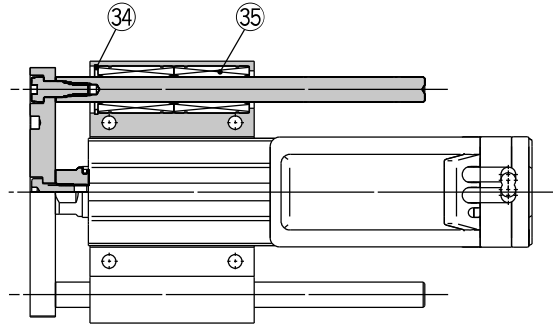


LEYG²⁵₃₂₄₀M□□^A_B_C-□□F: Over 50st



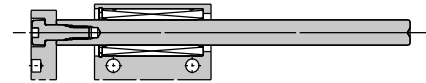
* Felt material is inserted to retain grease at the sliding part of the sliding bearing. This lengthens the life of the sliding part, but does not guarantee it permanently.

LEYG□L

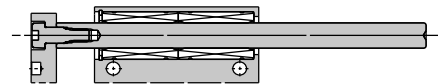


LEYG16L: 30st or less

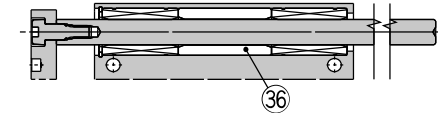
LEYG²⁵₃₂₄₀L: 100st or less



LEYG16L: Over 30st, 100st or less



LEYG¹⁶₂₅₃₂₄₀L: Over 100st



Component Parts

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 coated
23	Motor	—	
24	Motor cover	Synthetic resin	Only "With motor cover"
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"
42	Cover support	Aluminum alloy	Only "With lock/motor cover"

Replacement Parts/Belt

No.	Size	Order no.
20	16	LE-D-2-1
	25	LE-D-2-2
	32, 40	LE-D-2-3

Replacement Parts/Grease Pack

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

Model Selection
 LEY
 LEYG
 LEY
 LEY
 LEYG
 LEY-X7
 LEY-X5
 25A-LEY
 JXC51/61
 LEC A6
 LEC-G
 LEC P1
 LEC PA
 JXC
 LEC S
 LEC S
 Specific Product Precautions

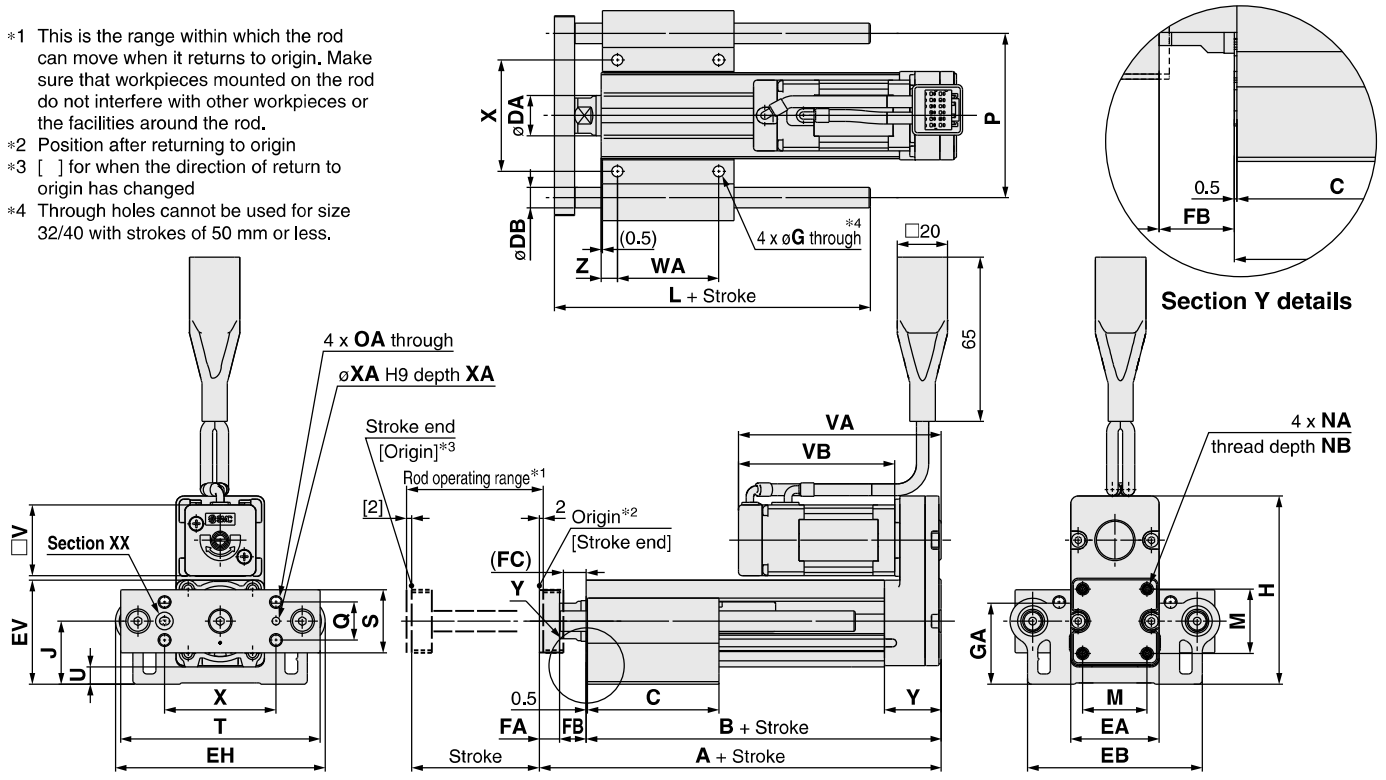
LEYG Series

Step Motor (Servo/24 VDC)

Servo Motor (24 VDC)

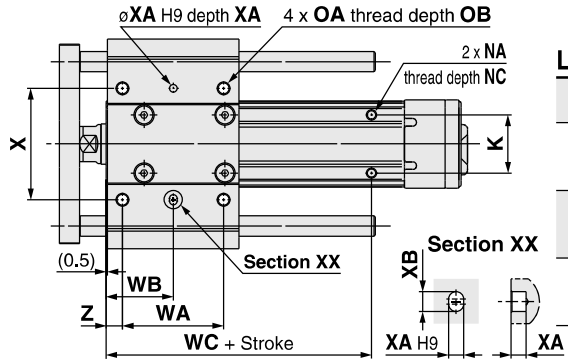
Dimensions: Top Side Parallel Motor

- *1 This is the range within which the rod can move when it returns to origin. Make sure that workpieces mounted on the rod do not interfere with other workpieces or the facilities around the rod.
- *2 Position after returning to origin
- *3 [] for when the direction of return to origin has changed
- *4 Through holes cannot be used for size 32/40 with strokes of 50 mm or less.



LEYG□L (Ball bushing bearing) [mm]

Size	Stroke range	L	DB
16	90st or less	75	8
	91st or more, 200st or less	105	
25	114st or less	91	10
	115st or more, 190st or less	115	
	191st or more, 300st or less	133	
32	114st or less	97.5	13
40	115st or more, 190st or less	116.5	
	191st or more, 300st or less	134	



LEYG□M (Sliding bearing) [mm]

Size	Stroke range	L	DB	
16	64st or less	51.5	10	
	65st or more, 90st or less	74.5		
	91st or more, 200st or less	105		
25	59st or less	67.5	12	
	60st or more, 185st or less	100.5		
	186st or more, 300st or less	138		
32	54st or less	74	16	
	40	55st or more, 180st or less		107
		181st or more, 300st or less		144

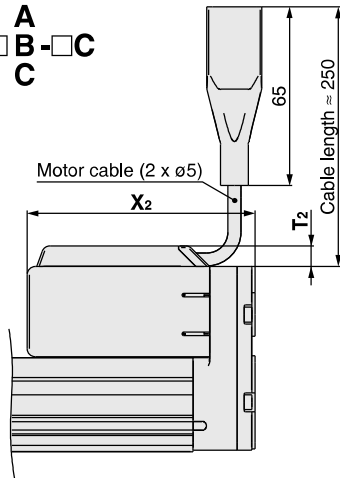
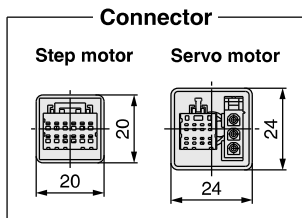
LEYG□M, LEYG□L Common

Size	Stroke range	A	B	C	DA	EA	EB	EH	EV	FA	FB	FC	G	GA	H	J	K	M	NA	NB	NC	Step motor		Servo motor			
																						VA	VB	VA	VB		
16	39st or less	109	90.5	37	16	35	69	83	41.1	8	10.5	8.5	4.3	31.8	74.3	24.8	23	25.5	M4 x 0.7	7	5.5	25	19	55			
	40st or more, 100st or less			52																					40	26.5	
	101st or more, 200st or less			82																					70	41.5	75
25	39st or less	141.5	116	50	20	46	85	103	52.3	11	14.5	12.5	5.4	40.3	98.8	30.8	29	34	M5 x 0.8	8	6.5	35	26	70			
	40st or more, 100st or less			67.5																					50	33.5	
	101st or more, 124st or less			84.5																					70	43.5	95
	125st or more, 200st or less			102																					85	51	
	201st or more, 300st or less																										
32	39st or less	160.5	130	55	25	60	101	123	63.8	12	18.5	16.5	5.4	50.3	125.3	38.3	30	40	M6 x 1.0	10	8.5	40	28.5	75			
	40st or more, 100st or less			68																					50	33.5	
	101st or more, 124st or less			85																					70	43.5	105
	125st or more, 200st or less			102																					85	51	
	201st or more, 300st or less																										
40	39st or less	190.5	160	55	28	40	117	7.3	56.4	95.4	68.4	—	—	40	28.5	75	64	5	6	34	8.5	40	28.5	75			
	40st or more, 100st or less			68																					50	33.5	
	101st or more, 124st or less			85																					70	43.5	105
	125st or more, 200st or less			102																					85	51	
	201st or more, 300st or less																										



Dimensions: Top Side Parallel Motor

With motor cover: LEYG $\begin{matrix} 16 \\ 25 \\ 32 \\ 40 \end{matrix}$ $\square\square$ $\begin{matrix} A \\ B \\ C \end{matrix}$ - \square C

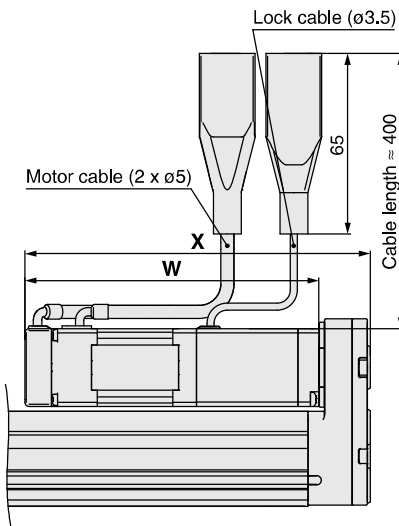
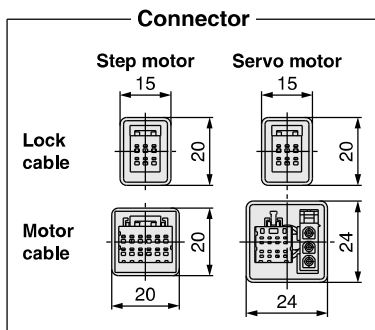


Size	T ₂	X ₂
16	7.5	83
25	7.5	88.5
32	7.5	98.5
40	7.5	120.5

[mm]

Motor cover material: Synthetic resin

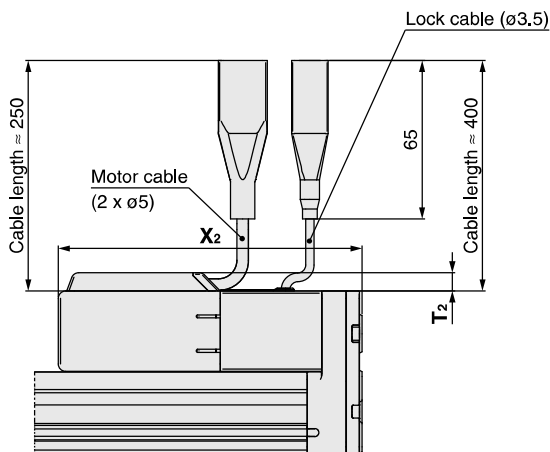
With lock: LEYG $\begin{matrix} 16 \\ 25 \\ 32 \\ 40 \end{matrix}$ $\square\square$ $\begin{matrix} A \\ B \\ C \end{matrix}$ - \square B



Size	Step motor		Servo motor	
	W	X	W	X
16	103.3	121.8	104	122.5
25	103.9	125.9	100.1	122.1
32	111.4	138.4	—	—
40	133.4	160.4	—	—

[mm]

With lock/motor cover: LEYG $\begin{matrix} 16 \\ 25 \\ 32 \\ 40 \end{matrix}$ $\square\square$ $\begin{matrix} A \\ B \\ C \end{matrix}$ - \square W



Size	T ₂	X ₂
16	7.5	124.5
25	7.5	129
32	7.5	141.5
40	7.5	163.5

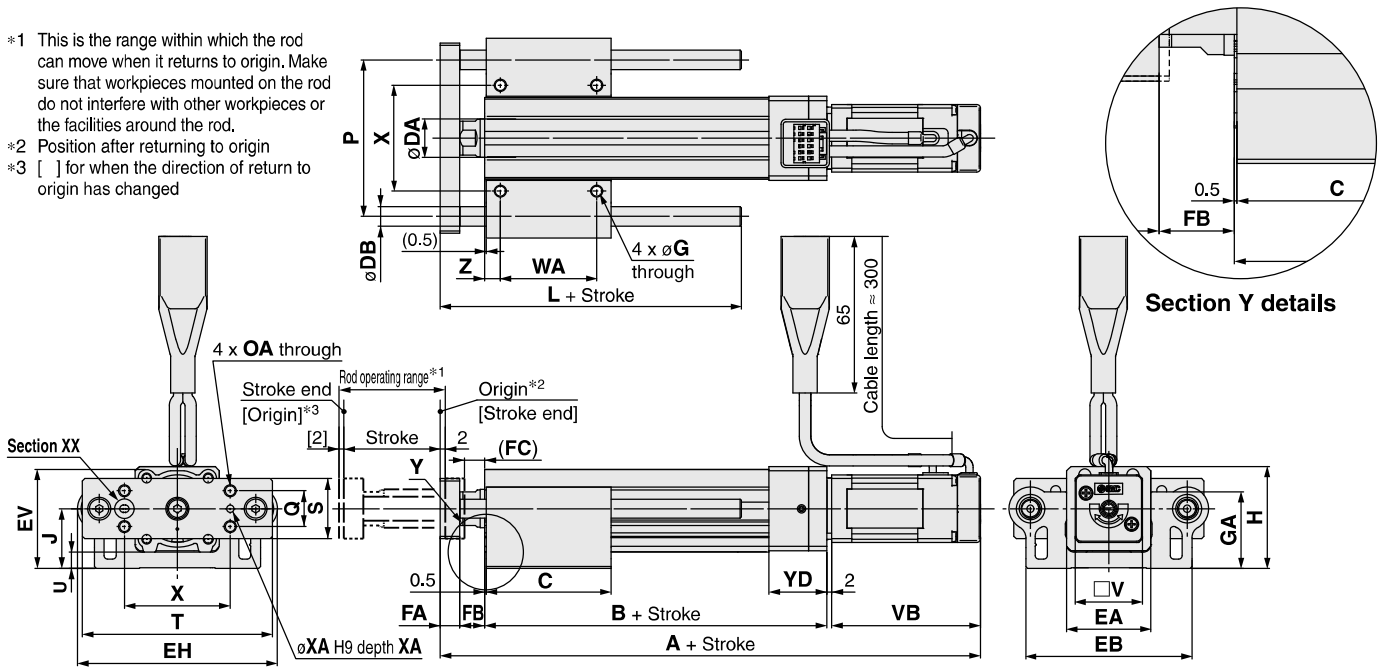
[mm]

LEYG Series

Step Motor (Servo/24 VDC) Servo Motor (24 VDC)

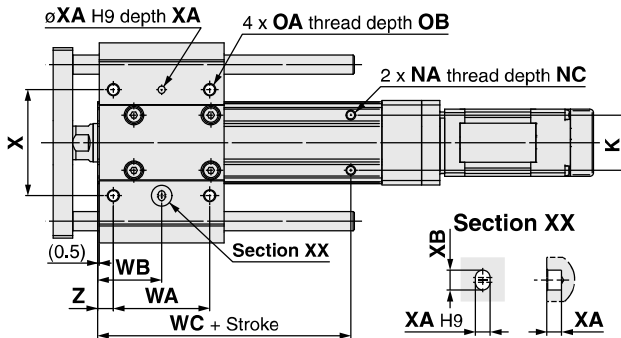
Dimensions: In-line Motor

- *1 This is the range within which the rod can move when it returns to origin. Make sure that workpieces mounted on the rod do not interfere with other workpieces or the facilities around the rod.
- *2 Position after returning to origin
- *3 [] for when the direction of return to origin has changed



LEYG□L (Ball bushing bearing) [mm]

Size	Stroke range	L	DB
16	90st or less	75	8
	91st or more, 200st or less	105	
25	114st or less	91	10
	115st or more, 190st or less	115	
	191st or more, 300st or less	133	
32	114st or less	97.5	13
40	115st or more, 190st or less	116.5	
	191st or more, 300st or less	134	



LEYG□M (Sliding bearing) [mm]

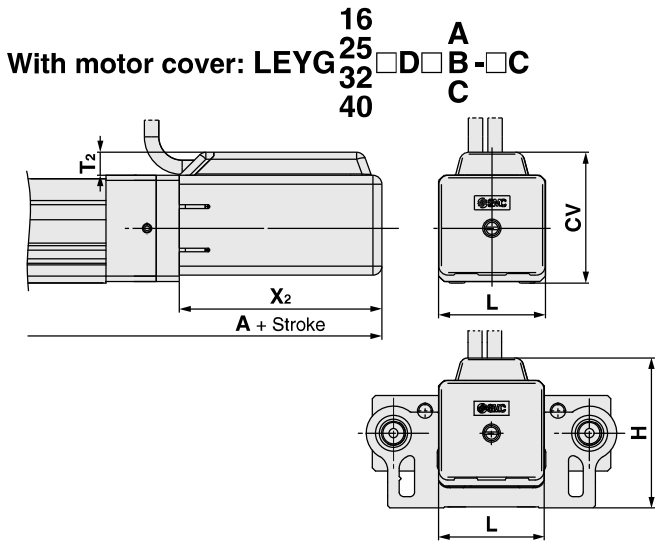
Size	Stroke range	L	DB
16	64st or less	51.5	10
	65st or more, 90st or less	74.5	
	91st or more, 200st or less	105	
25	59st or less	67.5	12
	60st or more, 185st or less	100.5	
	186st or more, 300st or less	138	
32	54st or less	74	16
	55st or more, 180st or less	107	
40	181st or more, 300st or less	144	

LEYG□M, LEYG□L Common

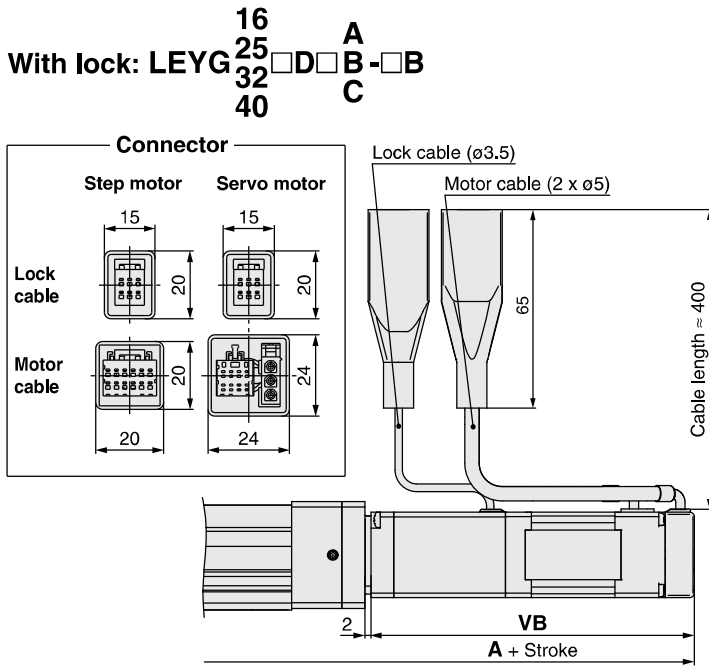
Size	Stroke range	Step motor		Servo motor		B	C	DA	EA	EB	EH	EV	FA	FB	FC	G	GA	H	J	K	NA	NC
		A	A	A	A																	
16	39st or less	174.3	175	92	37	16	20	16	35	69	83	41.1	8	10.5	8.5	4.3	31.8	42.3	24.8	23	M4 x 0.7	5.5
	40st or more, 100st or less	194.3	195	112	52																	
	101st or more, 200st or less	194.3	195	112	82																	
25	39st or less	206.4	202.6	115.5	50	20	20	20	45	85	103	52.3	11	14.5	12.5	5.4	40.3	53.3	30.8	29	M5 x 0.8	6.5
	40st or more, 100st or less	231.4	227.6	140.5	67.5																	
	101st or more, 124st or less				84.5																	
	125st or more, 200st or less	102																				
	201st or more, 300st or less	102																				
32	39st or less	228.9	—	128	55	25	25	25	60	101	123	63.8	12	18.5	16.5	5.4	50.3	68.3	38.3	30	M6 x 1.0	8.5
	40st or more, 100st or less	258.9	—	158	68																	
	101st or more, 124st or less				85																	
	125st or more, 200st or less	102																				
	201st or more, 300st or less	102																				
40	39st or less	250.9	—	128	55	25	25	25	60	101	123	63.8	12	18.5	16.5	5.4	50.3	68.3	38.3	30	M6 x 1.0	8.5
	40st or more, 100st or less	280.9	—	158	68																	
	101st or more, 124st or less				85																	
	125st or more, 200st or less	102																				
	201st or more, 300st or less	102																				

Size	Stroke range	OA	OB	P	Q	S	T	U	V	Step motor		Servo motor		WA	WB	WC	X	XA	XB	YD	Z
										VB	VB	VB	VB								
16	39st or less	M5 x 0.8	10	65	15	25	79	6.8	28	61.8	62.5	25	19	55	44	3	4	24	6.5		
	40st or more, 100st or less																			40	26.5
	101st or more, 200st or less																			70	41.5
25	39st or less	M6 x 1.0	12	80	18	30	95	6.8	42	63.4	59.6	35	26	70	54	4	5	26	8.5		
	40st or more, 100st or less																			50	33.5
	101st or more, 124st or less																			70	43.5
	125st or more, 200st or less																			85	51
	201st or more, 300st or less																			85	51
32	39st or less	M6 x 1.0	12	95	28	40	117	7.3	56.4	68.4	—	40	28.5	75	64	5	6	32	8.5		
	40st or more, 100st or less																			50	33.5
	101st or more, 124st or less																			70	43.5
	125st or more, 200st or less																			85	51
	201st or more, 300st or less																			85	51
40	39st or less	M6 x 1.0	12	95	28	40	117	7.3	56.4	90.4	—	40	28.5	75	64	5	6	32	8.5		
	40st or more, 100st or less																			50	33.5
	101st or more, 124st or less																			70	43.5
	125st or more, 200st or less																			85	51
	201st or more, 300st or less																			85	51

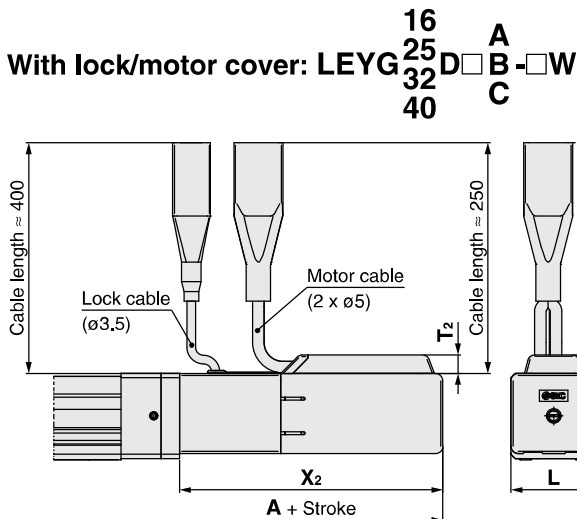
Dimensions: In-line Motor



Size	Stroke range	A	T ₂	X ₂	L	H	CV
16	100st or less	177	7.5	66.5	35	49.8	43
	101st or more, 200st or less	197					
25	100st or less	209.5	7.5	68.5	46	61.3	54.5
	101st or more, 300st or less	234.5					
32	100st or less	232	7.5	73.5	60	75.8	68.5
	101st or more, 300st or less	262					
40	100st or less	254	7.5	95.5	60	75.8	68.5
	101st or more, 300st or less	284					



Size	Stroke range	A		VB	
		Step motor	Servo motor	Step motor	Servo motor
16	100st or less	215.8	216.5	103.3	104
	101st or more, 200st or less	235.8	236.5		
25	100st or less	246.9	243.1	103.9	100.1
	101st or more, 300st or less	271.9	268.1		
32	100st or less	271.9	—	111.4	—
	101st or more, 300st or less	301.9	—		
40	100st or less	293.9	—	133.4	—
	101st or more, 300st or less	323.9	—		



Size	Stroke range	A	T ₂	X ₂	L	H	CV
16	100st or less	218.5	7.5	108	35	49.8	43
	101st or more, 200st or less	238.5					
25	100st or less	250	7.5	109	46	61.3	54.4
	101st or more, 300st or less	275					
32	100st or less	275	7.5	116.5	60	75.8	68.5
	101st or more, 300st or less	305					
40	100st or less	297	7.5	138.5	60	75.8	68.5
	101st or more, 300st or less	327					

Model Selection

Step Motor (Servo/24 VDC)/Servo Motor (24 VDC)

AC Servo Motor

Environment

Step Motor (Servo/24 VDC)/Servo Motor (24 VDC)

AC Servo Motor

Specific Product Precautions

LEYG Series

Step Motor (Servo/24 VDC)

Servo Motor (24 VDC)

Support Block

● Guide for support block application

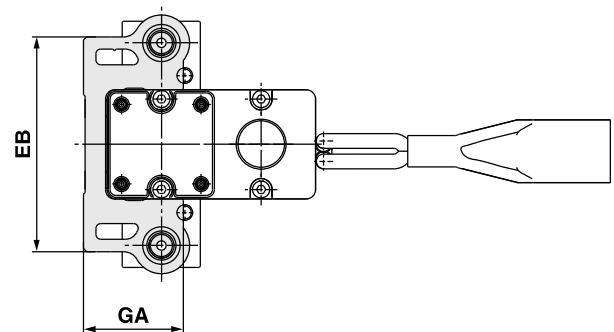
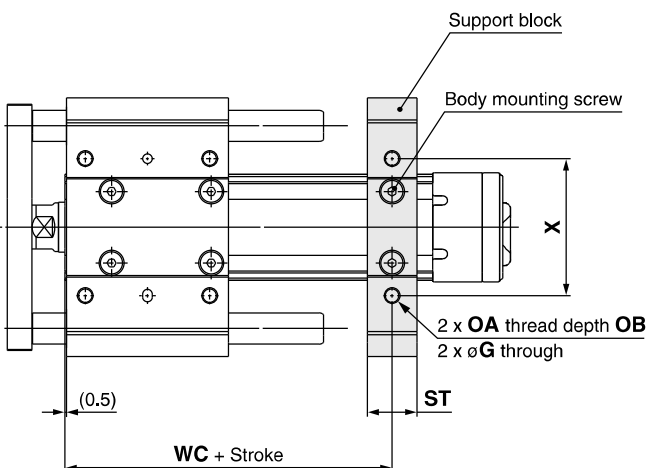
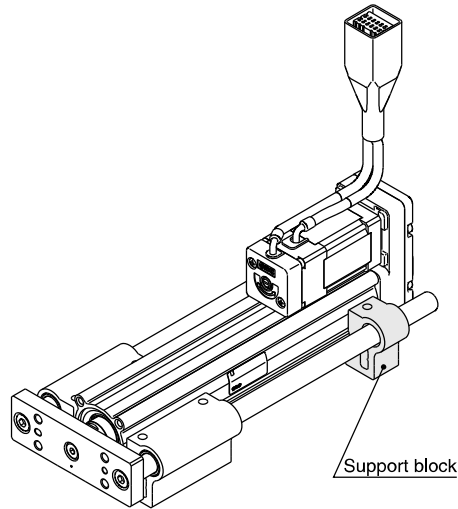
When the stroke exceeds 100 mm and the mounting orientation is horizontal, the body will be bent. Mounting the support block is recommended. (Please order it separately from the models shown below.)

Support Block Model

LEYG-S016

● Size

016	For size 16
025	For size 25
032	For sizes 32, 40



⚠ Caution

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

Size	Model	Stroke range	EB	G	GA	OA	OB	ST	WC	X
16	LEYG-S016	100st or less	69	4.3	31.8	M5 x 0.8	10	16	55	44
		101st or more, 200st or less							75	
25	LEYG-S025	100st or less	85	5.4	40.3	M6 x 1.0	12	20	70	54
		101st or more, 300st or less							95	
32 40	LEYG-S032	100st or less	101	(5.4)	(50.3)	M6 x 1.0	12	22	75	64
	101st or more, 300st or less	105								

* 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.