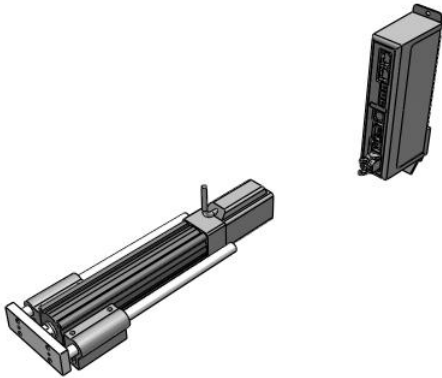




Standard Type - LEYG LEYG16MDA-100C-R5CE18

Datasheet

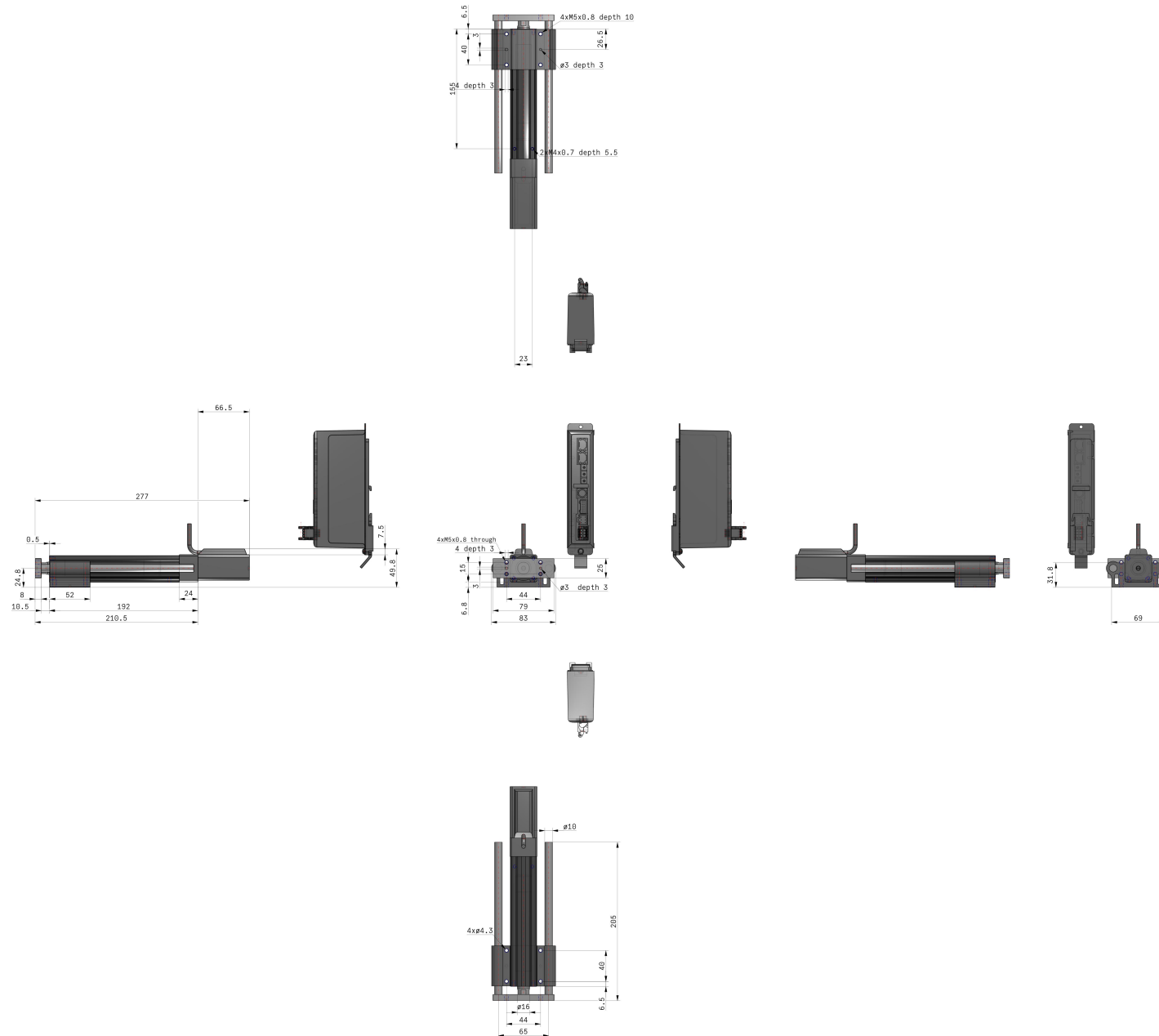
General series information

- Body size: 16, 25, 32 and 40 mm.
- Stroke: 30 to 300 mm.
- Speed control/Positioning: Max. 64 points.
- Positioning and pushing control can be selected.

Standard specifications

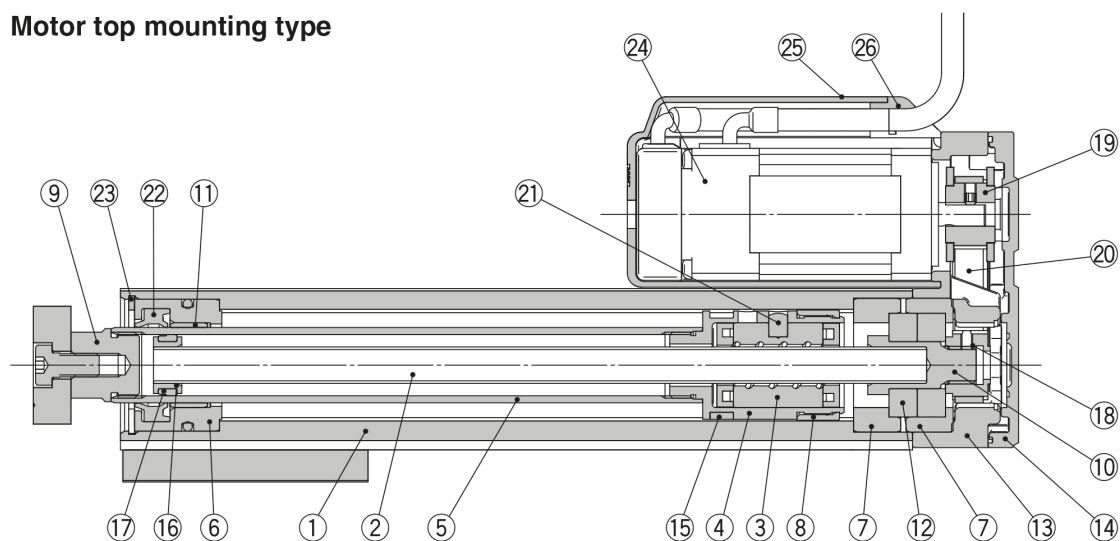
Size	16
Bearing	M (Slide Bearing)
Mounting Position	D (In-line)
Motor	Step Motor (Servo 24 VDC)
Lead Screw	A (Size 16: 10 mm, Size 25: 12 mm, Size 32: 16 mm)
Stroke	100 mm
Motor Option	C (w/Motor Cover)
Guide Option	Without Option
Actuator Cable	R (Robotic Flexible Cable)
Actuator Cable Length	5 (5m)
Controller	C (JXC, Step Motor Controller)
I/O cabling for LEC controllers	Without Cable
Protocol	E (EtherCAT®)
Suffix	1 (For Single Axis)
Controller Mounting	8 (DIN Rail)
I/O cabling for JXC Controllers and communication plug connector	None
Maximum ambient temperature	40 °C
Minimum ambient temperature	5 °C

General power supply	24 V DC
Approvals	CE
Pushing speed	50 mm/s max.
Impact/Vibration resistance	50/20 m/s ²
Encoder	Incremental A/B phase (800 pulse/rotation)
Horizontal work load	10 kg
Vertical work load	1.5 kg
Speed	15 - 500 mm/s
Max. Acceleration/deceleration	3000 mm/s ²
Positioning repeatability	± 0.02 mm
Lost motion	0.1 max.
Pushing force	14 - 38 N

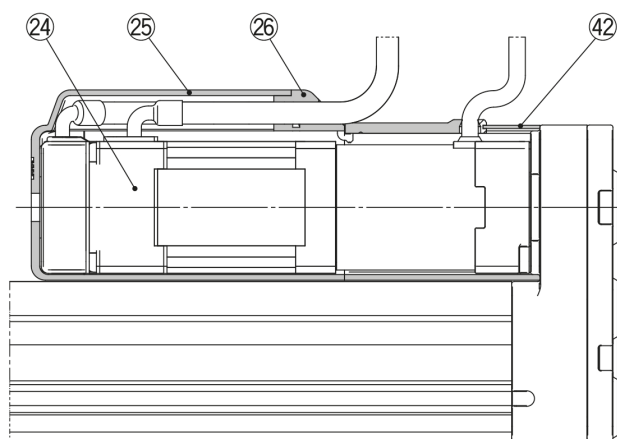


Constructions

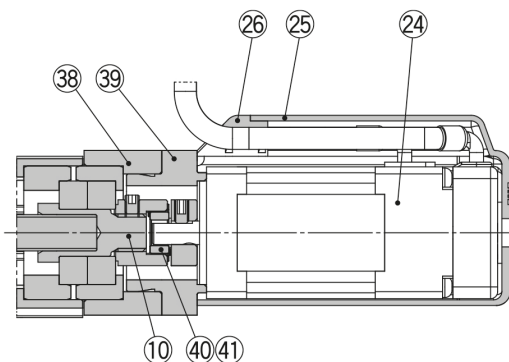
Motor top mounting type



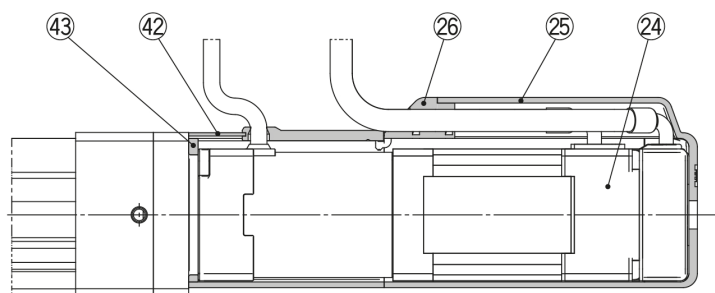
**Motor top mounting type
With lock/motor cover**



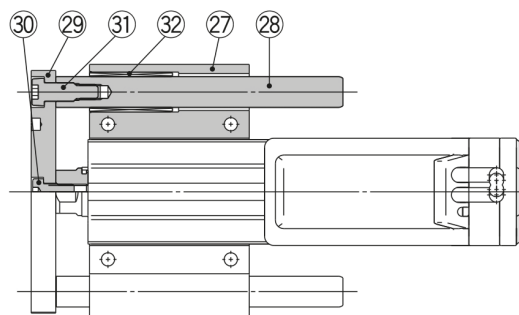
In-line motor type



**In-line motor type
With lock/motor cover**



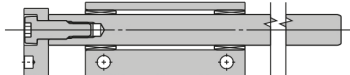
LEYG□M



LEYG¹⁶₂₅₃₂₄₀M: 50st or less

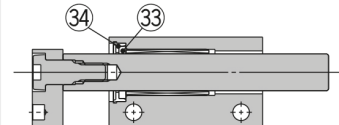


LEYG¹⁶₂₅₃₂₄₀M: Over 50st

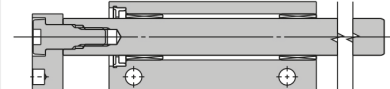


When grease retaining function selected

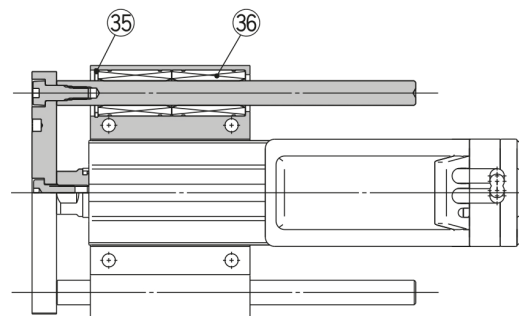
LEYG²⁵₃₂₄₀M□□^A_B-□□F: 50st or less



LEYG²⁵₃₂₄₀M□□^A_B-□□F: Over 50st

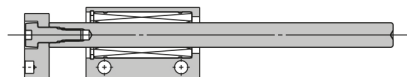


LEYG□L

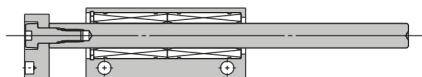


LEYG16L: 30st or less

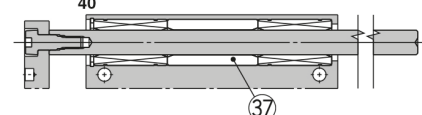
LEYG²⁵₃₂₄₀L: 100st or less



LEYG16L: Over 30st, 100st or less



LEYG¹⁶₂₅₃₂₄₀L: Over 100st



Component Parts

No.	Description	Material	Note
1	Body	Aluminium alloy	Anodised
2	Ball screw shaft	Alloy steel	
3	Ball screw nut	Synthetic resin/Alloy steel	
4	Piston	Aluminium alloy	
5	Piston rod	Stainless steel	Hard chrome plating
6	Rod cover	Aluminium alloy	
7	Bearing holder	Aluminium alloy	
8	Rotation stopper	POM	
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	Aluminium die-cast	Coating
14	Return plate	Aluminium die-cast	Coating
15	Magnet	—	
16	Wear ring holder	Stainless steel	Stroke 101 mm or more
17	Wear ring	POM	Stroke 101 mm or more
18	Screw shaft pulley	Aluminium alloy	
19	Motor pulley	Aluminium alloy	
20	Belt	—	
21	Parallel pin	Stainless steel	
22	Seal	NBR	
23	Retaining ring	Steel for spring	Phosphate coated
24	Motor	—	
25	Motor cover	Synthetic resin	Only "With motor cover"
26	Grommet	Synthetic resin	Only "With motor cover"
27	Guide attachment	Aluminium alloy	Anodised

No.	Description	Material	Note
28	Guide rod	Carbon steel	
29	Plate	Aluminium alloy	Anodised
30	Plate mounting cap screw	Carbon steel	Nickel plating
31	Guide cap screw	Carbon steel	Nickel plating
32	Sliding bearing	Bearing alloy	
33	Lube-retainer	Felt	
34	Holder	Resin	
35	Retaining ring	Steel for spring	Phosphate coated
36	Ball bushing	—	
37	Spacer	Aluminium alloy	Chromated
38	Motor block	Aluminium alloy	Anodised
39	Motor adapter	Aluminium alloy	Anodised/LEYG16, 25 only
40	Hub	Aluminium alloy	
41	Spider	NBR	
42	Motor cover with lock	Aluminium alloy	Only "With lock/motor cover"
43	Cover support	Aluminium alloy	Only "With lock/motor cover"

Additional information

Catalogue	LEY-F_EU.pdf
Declaration of conformity	newDoC_LEY_TF125-487EN.pdf newDoc_LEY_LEYG_stepDC-servoDC_EN-A.pdf
Installation manuals	IM_LEYG_StepDC_EN-C.pdf
Operation manuals	OM_LEY_LEYG_stepDC_servoDC_EN.pdf