

Linear Actuator LA44

Data Sheet



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Introduction



The LA44 is available in powerful 10,000 N and 12,000 N versions for use in various healthcare applications to ensure safe patient handling.

With the LA44 actuator, LINAK offers a product, which with its wide range of safety options, low noise level, and outstanding performance is the right choice for medical applications such as patient lifts, beds, dental chairs etc.

- Heavy duty actuator
- Safety options such as:
 - Manual lowering: makes it possible to turn the inner tube down by hand, in case of emergency, or if electrical power is not available.
 - Spline: potential work injuries are prevented by the spline, as the actuator can only push and not pull, in case something touches e.g. the lifting boom on a patient lift.
- High side load capacity for high safety: Side load of up to 1000 N is possible without breaking or damaging the actuator.
- Safety nut: to ensure safe patient handling even when the actuator is no longer new.
- Unique and improved brake to ensure no unintended movement.

Features and options

Load in push:	10000 N, 12000 N
Housing colour:	Light grey RAL7035
Protection class:	IPX4, IPX6
Motor:	24 V DC (standard), 24 V DC (fast)
Stroke length:	100 - 400 mm (in steps of 5mm)
Built-in dimensions:	See installation dimensions
Positioning options:	Dual Hall or potentiometer
Noise level:	50dB (A) according to DS/EN ISO3743-1
Safety nut option:	Yes, in push
Nut:	Guided (not guided nut with manual lowering)
Spline options:	Mechanical or electrical
Built-in electrical	Endstop
limit switch:	
Built-in end stop	Mechanical
switches:	
Exchangeable cable:	Yes, minifit to minifit
Safety factor:	>2
Manual lowering:	Optional in red or grey

Usage

Operation temperature:	+5 °C to +40 °C
Storage temperature:	-10 °C to +50 °C
Duty cycle:	10%, 2 minutes continuous use followed by 18 minutes not in use
Compatibility:	Compatible with LINAK control boxes. Please contact LINAK.
Relative humidity:	20% to 80% – non-condensing
Atmospheric pressure:	700 to 1060 hPa
Meters above sea level:	Max. 3000 meters
Approvals:	IEC60601-1 ANSI/AAMI ES60601-1 CAN/CSA-22.2 No 60601-1

Ordering example

Actuator type:	LA				Std.	PL
	44					
Spindle pitch:	080	080	= 8 mm	12000 N	X	X
		120	= 12 mm	10000 N	X	X
Stroke length:	200	XXX	= XXX mm	From 100-400 mm in steps of 5 mm	X	X
Safety:	A	A	= Safety nut		X	X
		D	= Mechanical spline and safety nut	Not available with ML option	X	
		L	= Electrical spline and safety nut		X	X
Feedback:	0	0	= None		X	X
		P	= Potentiometer	Not available with ML option	X	
		H	= Dual Hall, digital	Not available with ML option	X	
Not used	00	00	= Not specified			
Motor type:	B	B	= 24 VDC normal		X	X
		E	= 24 VDC fast		X	X
IP degree:	4	4	= IPX4		X	X
		6	= IPX6		X	X
	-					
Colour:	2	2	= Grey RAL7035		X	X
Back fixture:	1	1	= 0 degrees		X	X
		2	= 90 degrees		X	X
Piston Rod Eye:	1	1	= With slot	Installation + 3.3 mm	X	
		2	= Solid		X	X
Option Lowering:	0	0	= None		X	
		J	= Manual Lowering	Available in grey RAL7035 and Red RAL3020		X
Brake:	1	1	= Brake PUSH		X	X
Install. Dim:	0200	xxxx	= xxxx mm	Standard load ≤ 10 kN	BID = SL + 210 (SL ≤ 300)	X
				Standard load ≤ 12 kN	BID = SL + 230 (SL ≤ 300)	X
				Long installation with ML	BID = SL + 270+78 (SL ≤ 300)	X
				Long installation with ML	BID = SL + 290+78 (SL > 300)	X
				Long installation	BID = SL + 270 (SL ≤ 300)	X
				Long installation	BID = SL + 290 (SL > 300)	X
Fire Category:	0	0	= None/HB		X	X
		1	= V0		X	X
Connector	D	D	= Mini-fit		X	X
Cable:	0	0	= None		X	X
Safety factor	0	0	= 2.0	Bed applications	Check safety factor graphs	X
		1	= 2.0 PL	Patient lifts	Check safety factor graphs	X
		2	= 2.5	Medical applications	Check safety factor graphs	X
Not Used	0	0	= Not specified			
Not Used	0	0	= Not specified			

Chosen item number: 44080200A000B4-2110102000D0000

Installation dimension

Installation dimension option "0" in ordering example

	Installation dimensions 12 mm pitch (10,000 N)	
	Standard piston rod	Piston rod with slot (+3.3 mm)
Stroke length 100-300mm:	S+210 mm	S + 213.3 mm
Safety nut in push is standard: no addition to installation dimension		
Piston rod eye with slot: Installation + 3.3 mm		
Manual lowering not allowed		

Installation dimension option "1" in ordering example

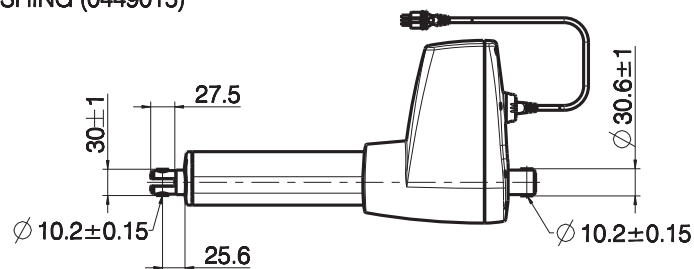
	Installation dimensions 8 mm pitch (12,000 N) or 12 mm pitch (10,000 N)	
	Standard piston rod	Piston rod with slot (+3.3 mm) (not for 12,000 N)
Stroke length 100-300 mm:	S+230 mm	S + 233.3 mm
Safety nut in push is standard: no addition to installation dimension		
Piston rod eye with slot: installation + 3.3 mm (Not for 12,000 N)		
Manual lowering not allowed		

Installation dimension option "L" in ordering example

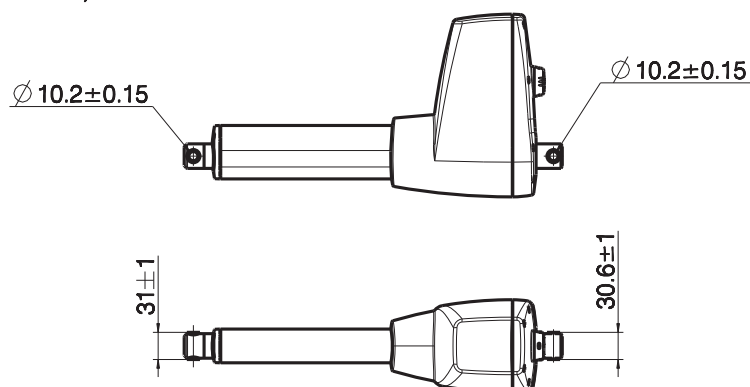
	Installation dimensions 8 mm pitch (12,000 N) or 12 mm pitch (10,000 N)		
	Standard piston rod	Piston rod with slot (+3.3 mm)	With manual lowering
Stroke length 100-300 mm:	S+270 mm	S + 273.3 mm	S + 348 mm
Stroke length 301-400 mm:	S+290 mm	S + 293.3 mm	S + 368 mm
Safety nut in push is standard: no addition to installation dimension			
Piston rod eye with slot: installation + 3.3 mm (Not for 12,000 N)			
Manual lowering: Installation + 78 mm (slot is not possible with manual lowering)			

Dimensions - LA44 standard

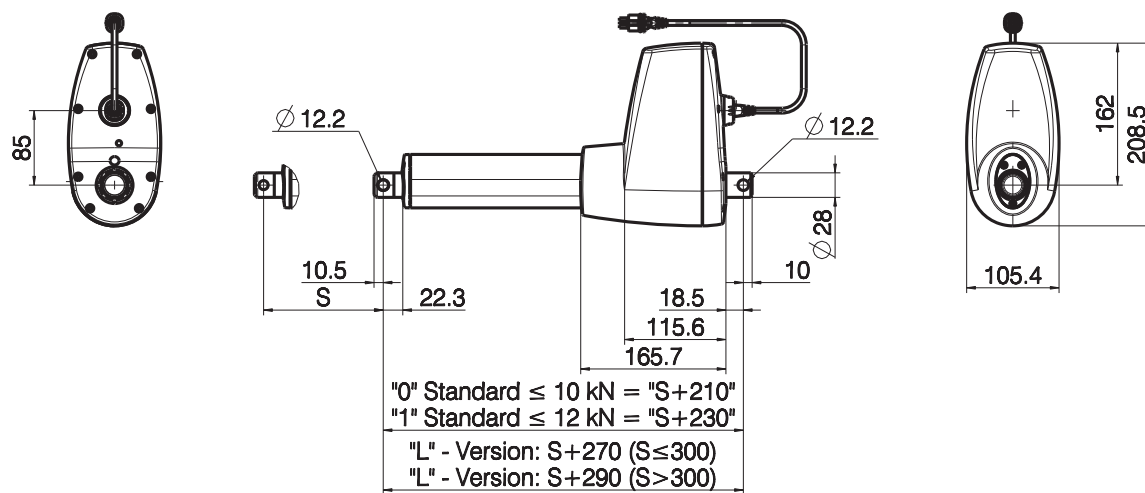
WITH SLOT AND BUSHING (0449015)



WITH BUSHING (0449014)



WITHOUT BUSHING (0449014)



INSTALLATION DIMENSION

Drawing no.: 0449014

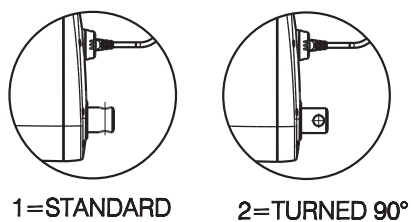


Information

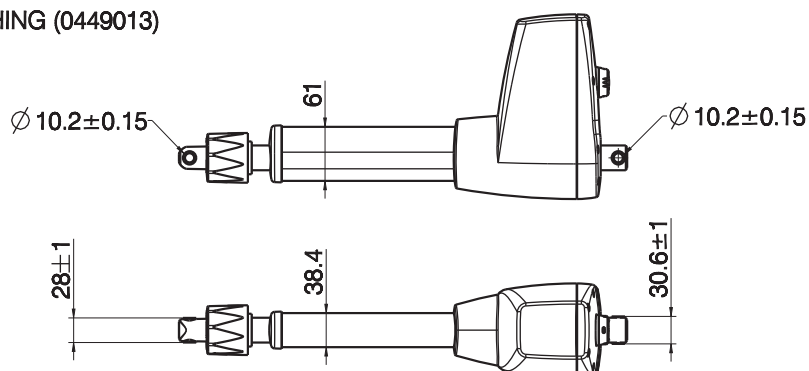
± 2 mm - Installation dimension

± 2 mm - Stroke length

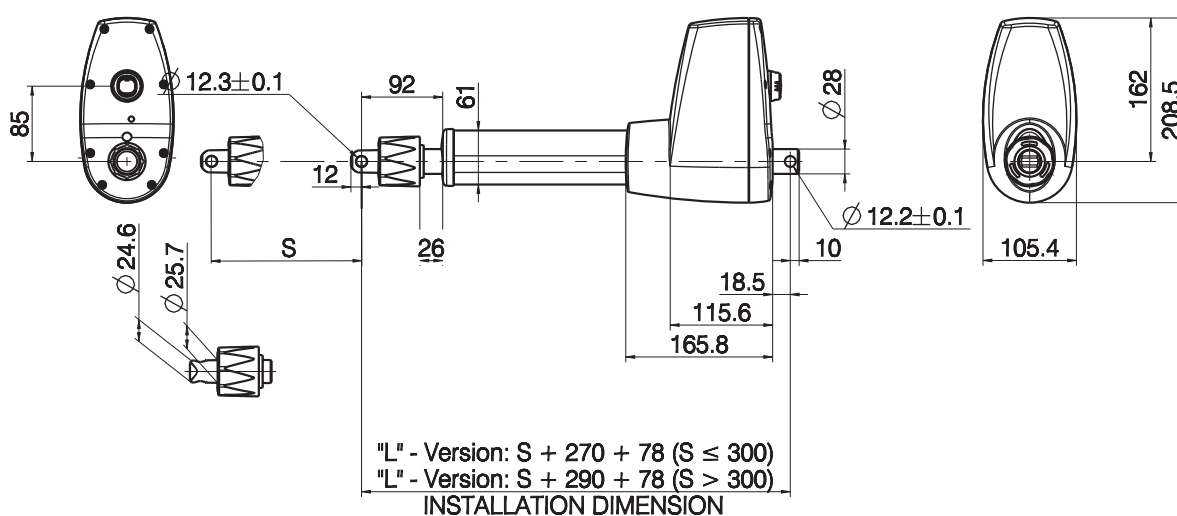
Dimensions - LA44 with manual lowering



WITH BUSHING (0449013)



WITHOUT BUSHING (0449013)



Drawing no.: 0449013



Information

± 2 mm - Installation dimension

± 2 mm - Stroke length

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