LINEAR CYLINDERS SERIES LI

PRODUCT ADVANTAGES



► Large locating flange

The large mounting surface simplifies your design and allows secure attachment of follow-on tools

Dampened end position

By using PowerStop shock absorbers, you can gently move up to the end positions, increasing the process reliability and durability of your application

► Failure-free continuous operation

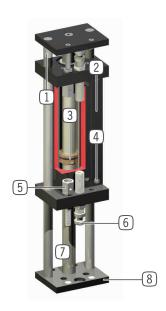
Our uncompromising "Made in Germany" quality guarantees up to 10 million maintenance-free cycles

> SERIES CHARACTERISTICS

Installation size	Version		
LIXX		D	S
2 way guiding			•
3 way guiding		•	
Continuous piston rod		•	
10 million maintenance-free cycles (max.)	•	•	•
+ 🔐 Inductive sensor	•	•	•
Elastomer end position damping	•	•	•
Powerstop end position damping	•	•	•
IP 54 IP54	•	•	•



BENEFITS IN DETAIL



1 Guide rod

- hardened, polished steel shaft

2 Mounting block

- mounting for inductive proximity switch

3 Drive

- double-acting pneumatic cylinder

4 Energy supply

- reducing exhaust air is recommended

5 End stop confirmation screw

- direct flange position sensing
- included in scope of delivery

6 End position damping

- with elastomer absorber or patented hydraulic shock absorber

7 Piston rod

- polished, hard chrome plated steel
- continuous in design D

8 Intake flange

 for connection to application-specific adapter plate (to be supplied by the customer)

► TECHNICAL DATA

	Stroke	Pressure force max.	Retraction force	Weight	IP class
Installation size	[mm]	[N]	[N]	[kg]	
LI16	20 - 50	80 - 100	80	0,05 - 0,1	IP54
LI30	15 - 90	200 - 270	200	0,05 - 0,1	IP54
LI40	40 - 300	270 - 450	270	0,05 - 0,3	IP54
LI50	50 - 300	950	950	0,03 - 0,2	IP54

► FURTHER INFORMATION IS AVAILABLE ONLINE



All information just a click away at: www.zimmer-group.com. Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.

LINEAR CYLINDERS LI50-50S / LI50-90S

▶ PRODUCT SPECIFICATIONS



Forces and moments

Max allowable static forces and moments.



► RECOMMENDED ACCESSORIES



ENERGY SUPPLY



DRV1-8X6

Flow Control Valves - with Swivel joint



CONNECTIONS / OTHER



AI-M8X1-53

Stop Stroke Adjustment Screws



SENSORS



NJ12-E2S

Inductive proximity switch - Connector M8



M20X1.5S Shock Absorbers



CONNECTIONS / OTHER



AP50-S

Adapter plate



KAG500

Plug-in connector Straight Cable 5m - Socket M8 (female)



KAW500

Plug-in connector Angled Cable 5m - Socket M8 (female)



ZE30H7X4

Centering Disc

	Technical data	
Order no.	LI50-50S	LI50-90S
Stroke [mm]	50	90
Pressure force max. [N]	950	950
Retraction force [N]	950	950
Travel time without external load [s]	0.13	0.24
Nominal operating pressure [bar]	6	6
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	166	300
Weight [kg]	2.9	3.6
Load Fa max. [N]	300	200
Max. deflection A [mm]	0.03	0.05
Radial load Mr max. [Ncm]	1500	1100
Max. rotation D at 100 mm [mm]	0.08	0.08

