

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

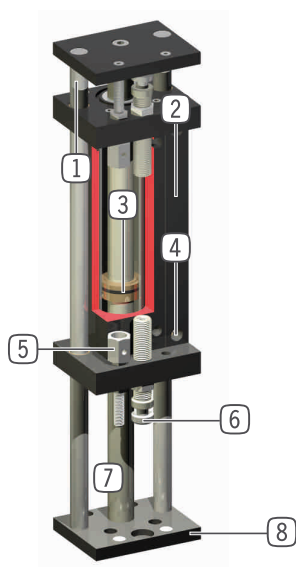
Our uncompromising "Made in Germany" quality guarantees up to 10 million maintenance-free cycles

▶ SERIES CHARACTERISTICS

Installation size	Version		
L1XX		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	●	●	●



► 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

Installation size	Stroke [mm]	Pressure force max. [N]	Retraction force [N]	Weight [kg]	IP class
L116	20 - 50	80 - 100	80	0,05 - 0,1	IP54
L130	15 - 90	200 - 270	200	0,05 - 0,1	IP54
L140	40 - 300	270 - 450	270	0,05 - 0,3	IP54
L150	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

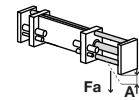
LI40-90S / LI40-130S / LI40-160S

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Max allowable static forces and moments.



▶ RECOMMENDED ACCESSORIES



ENERGY SUPPLY



DRV1-8X6
Flow Control Valves - with Swivel joint



SENSORS



NJ12-E2S
Inductive proximity switch - Connector M8



CONNECTIONS / OTHER



AP40-S
Adapter plate



AI-M8X1-53
Stop Stroke Adjustment Screws



CONNECTIONS / OTHER



AD-M14X1.5
Shock Absorbers



M14X1.5S
Shock Absorbers



KAG500
Plug-in connector Straight Cable 5m - Socket M8 (female)



KAW500
Plug-in connector Angled Cable 5m - Socket M8 (female)



ZE30H7X4
Centering Disc

Order no.	► Technical data		
	LI40-90S	LI40-130S	LI40-160S
Stroke [mm]	90	130	160
Pressure force max. [N]	270	270	270
Retraction force [N]	270	270	270
Travel time without external load [s]	0.09	0.13	0.16
Nominal operating pressure [bar]	6	6	6
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm ³]	100	133	166
Weight [kg]	2.9	3.5	3.9
Load Fa max. [N]	300	230	150
Max. deflection A [mm]	0.09	0.13	0.16
Radial load Mr max. [Ncm]	600	400	320
Max. rotation D at 100 mm [mm]	0.1	0.1	0.1

