

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

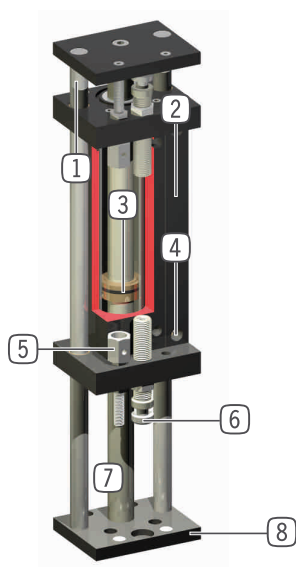
Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free cycles

▶ 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 | • | • | • |
|  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

| 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

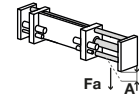
INSTALLATION SIZE LI40

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Max allowable static forces and moments.



▶ RECOMMENDED ACCESSORIES



ENERGY SUPPLY



DRV5X4
Flow Control Valves - with Swivel joint



SENSORS



NJ12-E2S
Inductive proximity switch - Connector M8



CONNECTIONS / OTHER



AP40
Adapter plate



AD-M10X1
Shock Absorbers



CONNECTIONS / OTHER



HV40
Absorber intake



M10X1S
Shock Absorbers



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



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



ZE20H7X4
Centering Disc

| Order no. | ► Technical data | |
|---|------------------|---------|
| | LI40-40 | LI40-90 |
| Stroke [mm] | 40 | 90 |
| Pressure force max. [N] | 450 | 450 |
| Retraction force [N] | 270 | 270 |
| Travel time without external load [s] | 0.08 | 0.2 |
| Nominal operating pressure [bar] | 6 | 6 |
| Operating temperature min. [°C] | 5 | 5 |
| Operating temperature max. [°C] | +80 | +80 |
| Air volume per cycle [cm ³] | 50 | 117 |
| Weight [kg] | 0.74 | 0.88 |
| Load Fa max. [N] | 80 | 30 |
| Max. deflection A [mm] | 0.05 | 0.05 |

