

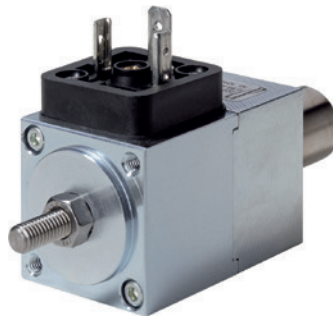
Single-Stroke Solenoids I Linear Actuators

Single-stroke solenoids are actuators which perform a linear movement by electromagnetic force from stroke starting position to stroke end position. The reset is achieved by external forces, often times by springs, weights or magnetic force. Kendrion single-stroke solenoids excel with a long service life, are maintenance-free and can be installed in any position. Lastly, but equally important is the range of application for our single-stroke solenoids is virtually unlimited.



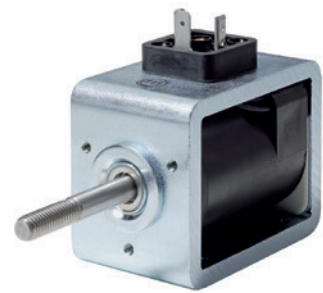
Single-Stroke Solenoids Round

Ø 20-200 mm
Stroke: 3-60 mm
Force: 2-920 N



Single-Stroke Solenoids Square

L/W/H: 28/16/16-70/70/110 mm
Stroke: 5-30 mm
Force: 5-1100 N



Single-Stroke Solenoids Frame

L/W/H: 30/12/14-105/70/80 mm
Stroke: 3- 0 mm
Force: 0.2-600 N

Kendrion creates a wide range of DC single-stroke solenoids. Depending on the application we can offer different designs and sizes with individually customized options and suitable accessories. Apart from our standard solutions we specialize in the development of customer-specific solutions.

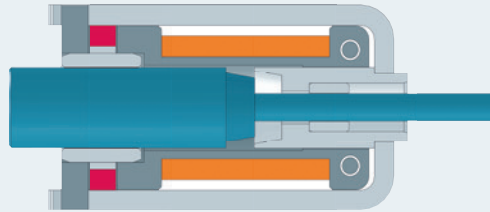
You will find universally applicable single-stroke solenoids in our Classic Line, High-Performance Line and High-Power Line. While the Classic Line focuses on cost-effective design with individually customized options, the High-Performance Line excels by

its modular design.

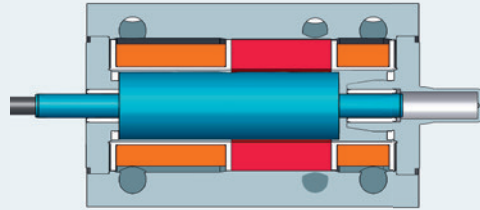
The lines are completed by the High Power Line which combines high powers and long distances. Our solenoids have a wide range of applications, such as in high-performance switches, as actuators in automation technology or in the machine-building industry. With the Control Power Line, Kendrion offers an additional product group which is particularly suitable for use in transportation systems and as actuators.



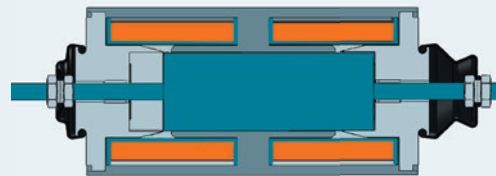
Single-stroke solenoids are particularly energy-efficient in mono- and bi-stable design. The armature starting and/or end position can be held current less by installing a permanent magnet. Thus, a current entry is only required for the actual switching operation.



MONOSTABLE SINGLE-STROKE SOLENOIDS are, in addition to the single-stroke solenoid, fitted with a permanent magnet. Without electric energy it keeps the armature with a particular force in the stroke end position. The switch-over is effected by a reverse voltage pulse..



In a **BISTABLE SINGLE-STROKE SOLENOID** a permanent magnet keeps the armature both in the stroke starting position and in the stroke end position.



REVERSIBLE SOLENOIDS consist of two solenoid systems. Depending on the activity the stroke movement takes place from one stroke end position to the opposite position.

Application-specific special forms

Locking solenoids are designed for high radial forces and are therefore optimized for applications as safety devices for machine and automation installations. Single- and double-spreader solenoids have very high forces and are used in elevator and escalator drives as well as in industrial brakes for the lifting of shoe and drum brakes



Locking Solenoids

L/W/H: 91/38/40-175/80/55 mm
Stroke of locking pin: 8-15 mm
Up to 3000 N radial load



Elevator Solenoids

Ø 88-200 mm
Force: 190-7500 N
Stroke: 4-8 mm resp. 2 x 2-2 x 6 mm