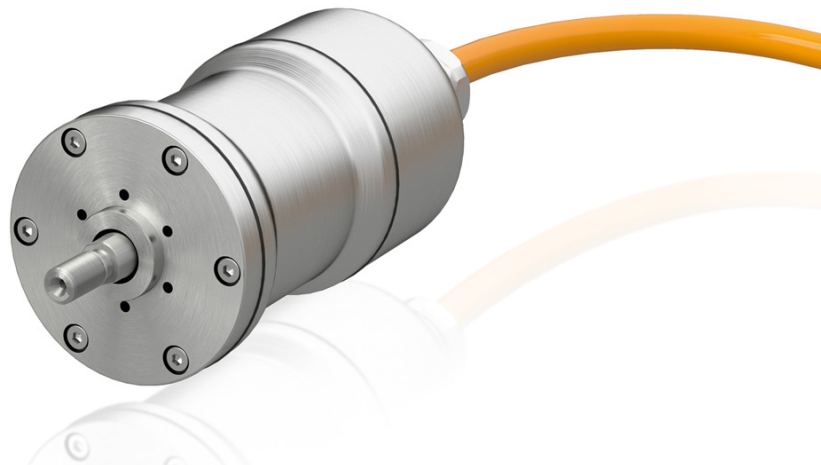


AA1821 | Stainless steel linear actuator 800 N (F_{\max}), 100 mm/s (v_{\max})



i **Product status:** Product announcement

The stainless steel linear actuator expands the linear actuator product family by a hygienic design version. The stainless steel housing in a design without corners and edges makes the AA1821 ideal for use in the food, pharmaceutical, and chemical industries. With a protection rating of IP69K, the linear actuator is optimally equipped to withstand adverse and aggressive environmental conditions.

Like the standard version AA1121, the stainless steel linear actuator is designed for the electronic control of valves and linear adjusting units. In a minimal size of $\varnothing 60 \text{ mm} \times 112.5 \text{ mm}$, the AA1821 has a lifting height of 10 mm and a peak force of 800 N. The power electronics required for control are already integrated in the linear actuator and are supplied with extra-low voltage of $< 48 \text{ V DC}$ via a direct cable output. With a power consumption of 15 W, the linear actuator is extremely energy-efficient. Communication takes place simply and quickly via EtherCAT. In addition, an absolute measuring system with an accuracy of 0.01 mm is integrated. The shaft is equipped as standard with an M8 x 1.25 external thread in order to be able to accept commercially available adapters such as ball heads or clamping hooks from the pneumatic/hydraulic range.

Product information

Technical data

Technical data	AA1821-0000-0016
Motor type	linear actuator with integrated servo drive
Rated supply voltage	24...48 V DC
Peak force	800 N
Continuous force	162 N

AA1821

Peak current	10 A
Continuous current	1.85 A
Max. speed	100 mm/s
Max. acceleration	7 m/s ²
Max. travel distance	10 mm
Motor feedback	integrated absolute encoder (resolution 0.01 mm)
Connection method	direct cable outlet via cable gland with connected B17 coupling plug
Ambient temperature (operation)	+5...+40 °C
Approvals/markings	CE

Housing data	AA1821-0000-0006
Protection rating	IP69K
Design form	flange-mounted according to IM B5, IM V1, IM V3
Material	stainless steel AISI 303