

# PSL PS-AMS PSL

## Linear actuators

1 kN - 25 kN  
AMS programmable



# PSL/PS-AMS PSL

## Linear actuators

The planning of process plants in the water, oil and gas, food and pharmaceutical industry as well as industrial utilities requires the ability to combine complex individual projects.

Very often, processes have to be modified or optimised at short notice. Actuators should be built in a way that they can be adapted to changing conditions fast.

State of the art for new process plants or for upgrades are the electric linear actuators PSL or the programmable PS-AMS PSL from PS Automation.

Engineered and Made in Germany.

### A PSL is compact and modular

The PSL linear actuators from PS Automation are available for forces from 1 - 25 kN. They are mature and proven, robust and completely maintenance free.

Above all, they are characterized by their upgradeability due to a modular principle. Countless variations are possible and all of them are lubricated for lifetime.

With a PSL from PS Automation, the specialist for valve actuators, the only costs to consider are acquisition and operating costs. There are no maintenance costs.

### In combination with the patented AMS control, the PSL becomes programmable

A PS-AMS PSL is installed fast and is programmable due to the local control with display, alternatively via the USB-interface or the blue-tooth interface.

### The automated one-key commissioning is standard.

The diagnostic and monitoring function gives information about the state of the operating valve.

Due to the softstart function, a PS-AMS PSL is valve-friendly and therefore supports a high process demand. A higher starting torque may also be set.

The AMS-control even offers more advantages:

- All common interfaces are integrated, fieldbus is optional
- Integrated position indicators and valve positioner functionalities
- Valve control curve is adjustable
- Maintenance-free failsafe power failure backup by super-capacitors

Electronic board



No switching-over to manual operation needed. The **hand wheel** serves as an operation indicator and is always ready for operation

Vibration-proof potentiometer suspension

**All common power supplies:** single phase, 3-phase and d.c. voltage. Suitable for control operations. Protection class IP65 is standard, protection class IP67 resp. IP68 is optional

**Efficient motor** for precise positioning and controlling with a long duty cycle

**Friction clutch** prevents damage

**Precise valve setting:**

- with fine adjustment of cams
- with stroke scale

Compact, corrosion resistant, sturdy and light-weighted due to high-quality aluminum alloys and polycarbonate  
Metal cover available on request

**Mounting pillars** for a easy flexible mounting onto the valve

**Spring clutch** between valve and actuator. Many valve connections are available



# Optional accessories

The PSL actuators from PS Automation have a modular concept and are available in many variations; the upgrading with accessories is even possible on site.

## Accessories for a PSL

A PSL can be adapted to all requirements concerning controlling and regulating material flows, e.g. with the following accessories:

- Additional limit switches and intermediate position switches
- Single or double potentiometer
- Heating resistor
- Electronic position indicator and valve positioner

## For a PS-AMS PSL: Additional status signal

Possible by using potential-free additional limit switches/intermediate position switches

## For a PS-AMS PSL: Local control

Enables manual operation and the access to parameters and diagnosis on site without needing a PC. Moreover, the valve position is shown in an illuminated display.

## For a PS-AMS PSL: Integrated process controller

Enables the independent control of a process, without the need for an external controller. The specification of the process setpoint is made via fieldbus or an analogue signal (mA or V). 24 V DC sensor power supply is integrated (max. 100 mA).

## For a PS-AMS PSL: USB-/fieldbus-/bluetooth interfaces

Enables the communication between actuator and PC via USB data cable as well as the parameterization and reading out the diagnosis

## For a PS-AMS PSL: Power failure backup

Integrated emergency supply on the basis of super-capacitors. Enables the actuator to have an emergency operation in case of power failure in a freely adjustable safety position.



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