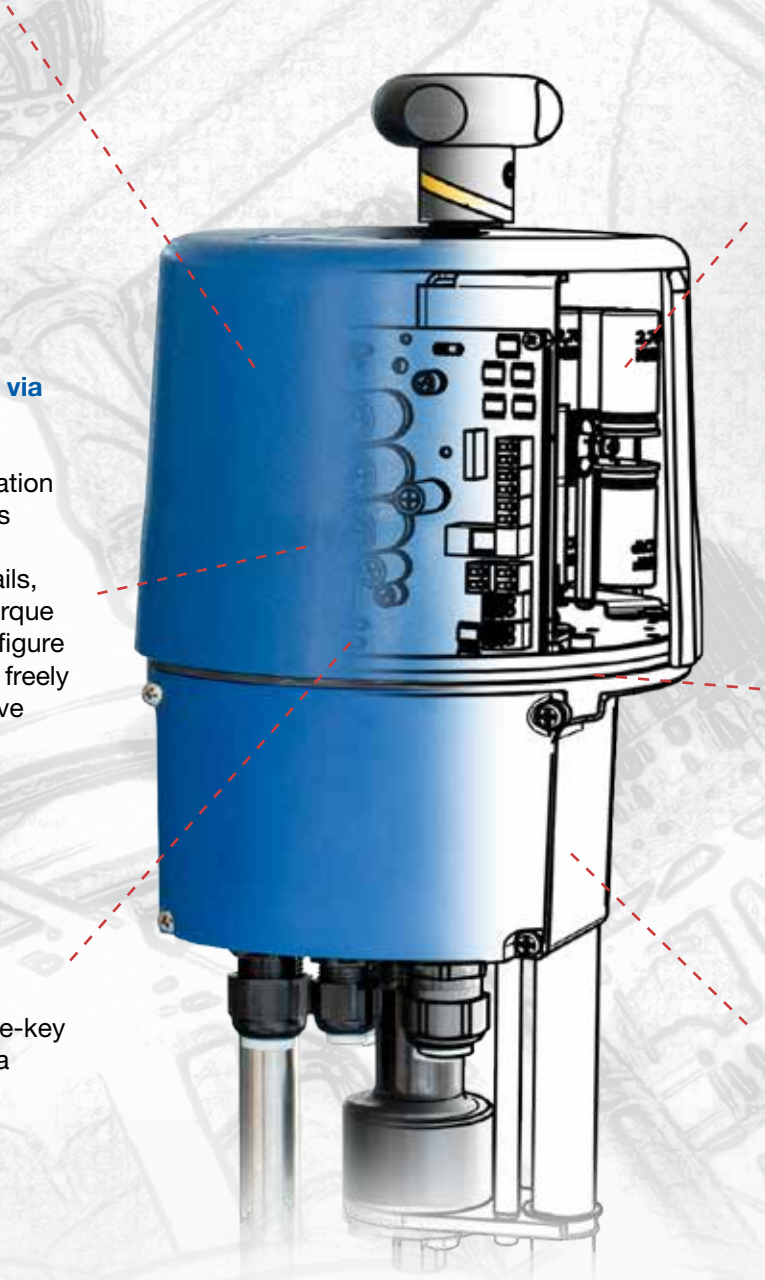
PS® AUTOMATION
we care for actuation

PS-AMS PSL

The intelligent linear actuator up to 25 kN

Speed-controlled actuation

The output is generated by a 24 VDC motor, which is controlled by the electronics via pulse width modulation (PWM), i.e. it is operated at variable speed. Absolute-coded feedback is done with a precision potentiometer. AMS standard equipment comprises positioner and active feedback function, automatic commissioning as well as comprehensive diagnostics functions.



Power failure backup

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

Parameterisation via software

Via the communication software PSCS it is possible to adjust valve-specific details, actuation thrust/torque and speed, to configure alerts, and to do a freely programmable valve curve correction.

Mechanical design

The mechanical part of the PS-AMS actuator consists of the components of PS Automation‘s standard actuators with their well-proven components, namely a robust spur gear with trapezoidal thread in PS-AMS PSL. All AMS actuators are lubricated for life and therefore are maintenance-free.

Automatic commissioning

The automated one-key commissioning is a standard function.

Electrical connection

The electrical wiring of PS-AMS PSL is done directly to the terminal blocks in the integrated terminal box.

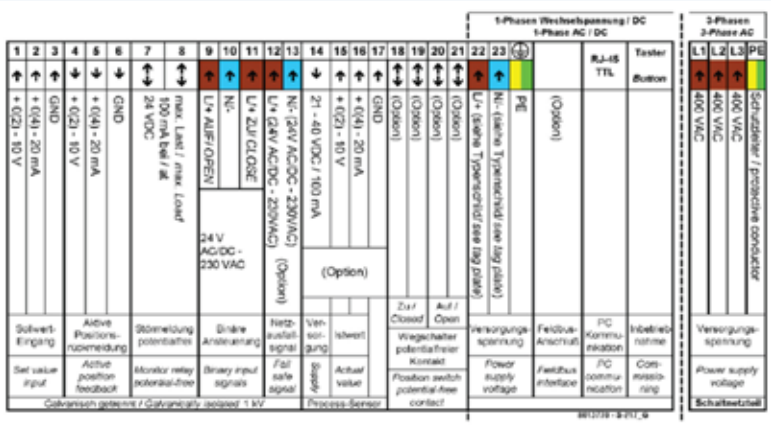
Diagnostics function

The diagnostics function of the communication software PSCS allows to retrieve counting values (such as operating hours, number of start-ups and running time of motor) and sets of running parameters (such as the analogue set value input actual position value, currently required motor torque and inside temperature of the actuator). The actual values can be graphically displayed and analysed using the monitor function. Thus the AMS concept allows pro-active maintenance and as a result an increase in process safety.

PS-AMS PSL

Technical Data

		PSL202 AMS11	PSL204 AMS11 AMS12	PSL208 AMS11	PSL210 AMS11 AMS12	PSL214 AMS12	PSL320 PSL325 AMS13
Thrust	kN	2,3	4,5	8	10	14	25
Stroke s	mm	50	50	50 opt. 65	50 opt. 65	50 opt. 65	60 100 (24V)
Pillar distance	mm	100	100	100	100	100	155
Manual override		Handwheel knob					Handwheel
Handwheel dia.	mm	59	59	59	59	59	100
Weight approx.	kg	7	7	10	10	12	20
Velocity	mm /s	0,45 - 0,9	0,45 - 0,9	0,3 - 0,7	0,2 - 0,35	0,65 - 1,3	0,2 - 0,4
			2,25 - 4,5		0,85 - 1,7		
Power supply		24 V, 115 V, 230 V AC 50/60Hz, 24 V DC					
Motor protection		Electronic motor current monitoring with safety cut-off					
Duty cycle as per IEC 60034-1,8		S2 30min S4 50% ED a 25°C					
Permitted ambient temperature		-20 to +60°C					
Mounting position		Any position, except cover pointing downwards					
Conduit entries		2 pcs. M20, 1 pcs. M16					3 pcs. M20
Control options (standard)		Analogue signal, split range, 24 V binary					
Input and Output signals		0 (4) - 20 mA, 0 (2) - 10 V					
Enclosure acc. to EN 60529		IP 65 opt. IP 67				IP 67	IP 65 opt. IP 67
Cover material		Polycarbonat, cast aluminium for stroke 65 mm or IP 67 version					Aluminium
Gear case material		High quality aluminium die casting					
Pillar and feedback rod material		Stainless steel DIN 1.4104					



PS-AMS PSL linear actuators are mature and proven, robust and completely maintenance free.

With a PS-AMS PSL from PS Automation, the specialist for valve acutation, the only cost to consider are acquisition and operating costs.

There are no maintenance costs.

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