

*We care for actuation.*

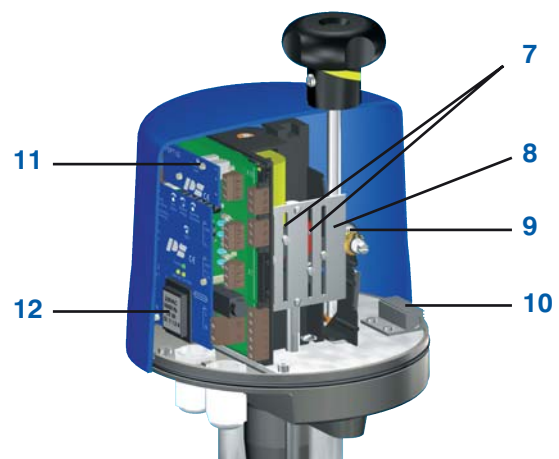
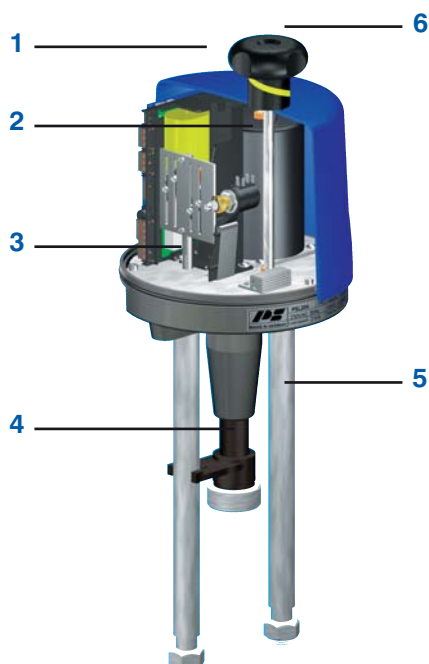
**The cover and switching mechanism design of the PSL valve actuators for a wider range of applications, with more space for electronics and reduced cost**

The PSL valve actuators fulfil all requirements for control valve actuators with remarkable efficiency. They position precisely, are very robust, reliable with long life, even at high loads. The individual components are of high quality and correspond to the harmonised European standards for machines and electrical equipment. The basic adjustment of a PSL actuator on a valve is simple due to the central arrangement of the switching and sensor units, which are easily accessible. Optional accessories are quickly retrofittable due to the unique, perfected modular design.

Our customers who use the PSL linear and PSQ quarter-turn actuators profit from the unified modular concept of the accessories in several ways: There are fewer parts which need to be held in stock and the training for the sales, service and assembly personnel is reduced considerably.

**Characteristics for simple handling and for long, trouble-free operation which only PSL actuators can offer in their class:**

- 1 The tight cover, made of high-quality polycarbonate, sheet steel or cast aluminium allows outdoor installation.
- 2 High-quality and high-efficiency motor used for a precise positioning and controlling with high duty cycle
- 3 Spur gear with minimum backlash and low wear for precise positioning of the valvestem; high actuator output stiffness due to self-locking drive
- 4 The proven disc spring coupling provides a defined setting force and tight closing; the rotation lock serves as a mechanical stroke indicator
- 5 The mounting pillars made of non-corrosive steel for simple, versatile mounting to the valve
- 6 Comfortable hand operation without switching from motor to manual operation; the handwheel simultaneously indicates the operation and direction of operation and helps during failure diagnosis.
- 7 Easily adjustable limit and signal switches



**Modular accessories, easy retrofitting even on site**

- 8 additional stroke switches or intermediate switches
- 9 single or double potentiometer
- 10 space heater
- 11 electronic position transmitter
- 12 electronic positioner

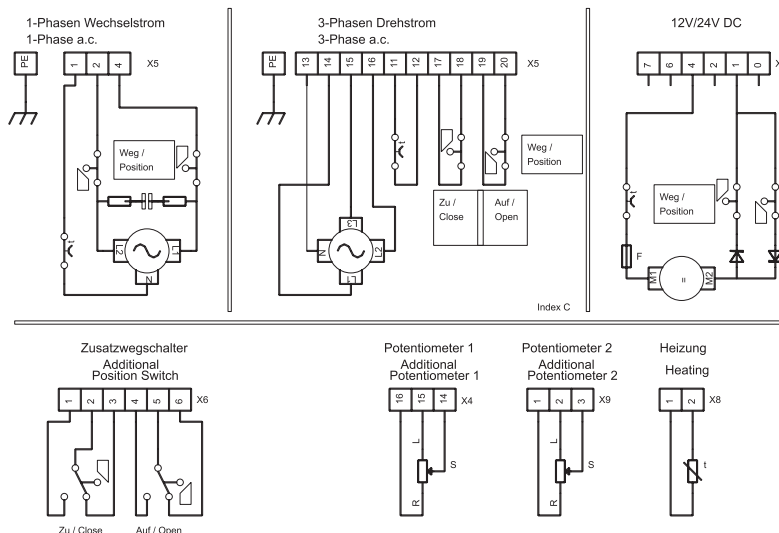
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## Technical Data

		PSL201	PSL202 PSL202.1 PSL202.2	PSL204 PSL204.1 PSL204.2	PSL208 PSL208.1	PSL210	PSL214	PSL320 PSL325	
Thrust	kN	1,0	2,0	4,5	8,0	10,0	14,0	20,0 25,0	
Stroke	mm	50	50	50	50	50	65	100	
Pillar distance <sup>1)</sup>	mm	100	100	100	100	100	100	155	
Manual override		Handwheel knob							Handwheel
Handwheel dia.	mm	59	59	59	59	59	59	100	
Weight approx.	kg	4,3	4,5	5,5	7,5	7,5	10	20	
Velocity (at 50Hz) <sup>1)</sup>	mm/s	0,25	0,5 1,4	0,5 1,4	0,5 1,0	0,45	0,45	1,0 1,0	
Motor voltages <sup>2)</sup>		24V / 115V / 230V / 400V 50/60Hz, 24VDC							
Motor protection		Blockable motor			Thermal switch				
Duty cycle as per IEC 60034-1,8		S2 30min S4 50% ED - 1200c/h							
Conduit entries M20x1,5		2 pcs.						3 pcs.	
Enclosure acc. to EN 60529		IP65 <sup>1)</sup>					IP 67	IP 65	
Permitted ambient temperature <sup>1)</sup>		-20 to +80°C, modulating duty up to +60°C							
Position indication		Rotation lock on mounting pillars							
Mounting position		Any position, except cover pointing downwards							
Gear case material		High quality aluminium die casting							
Cover material <sup>1)</sup>		Polycarbonat					Cast aluminium	Deep drawn steel plate	
Pillar material		Non-corrosive steel DIN 1.4104							
Feedback rod material		Non-corrosive steel DIN 1.4104							

1) Standard, customisation possible

2) Three phase not available for PSL201



PS Actuators have proven for more than 20 years in industry and ships, in water and sewage technology, in heating and air conditioning, in power station and boiler house plants.

They are especially renowned for their functional conception without unnecessary features that may be prone to failure, and for a precise positioning or controlling and long trouble-free operation.