

PSL 208.1 passes high-pressure test to DIN EN 15714-2



Since years, the PS engineering team undergoes their actuators strong testing.

To develop and to produce certified actuators, every actuator type is exposed very high load during type testing, which exceeds the basic requirement. The standard for industrial instruments DIN EN 15714 sets the basics for internal requirements.

One example is the high-speed **PSL208.1 230VAC** with a force of **8 kN** which has been tested extensively during a long life test over 6 month, to demonstrate his strength on a replicated field application.

With the current results this type of actuator has **exceeded** the requirements of „**class C- modulation**“ and receives the labeling as control actuator rightly. The criteria of „class D – continuous modulation“ of **10.000.000 starts** was reached additionally.

Neither as „**class A and B – Inching**“ actuator beats the requirements for duration more than fivefold without showing any significant wear marks.

The reasons for such positive results are the use of high-quality components, fabricated parts, lubricants and materials.

Test characteristics

All strength tests are undertaken with high accuracy in head office in Bad Dürkheim, Germany. The average laboratory room temperature is 19°C-22°C. To shorten the run duration the amount of starts per hour are increased, which handicaps the preconditions for the actuator additionally.

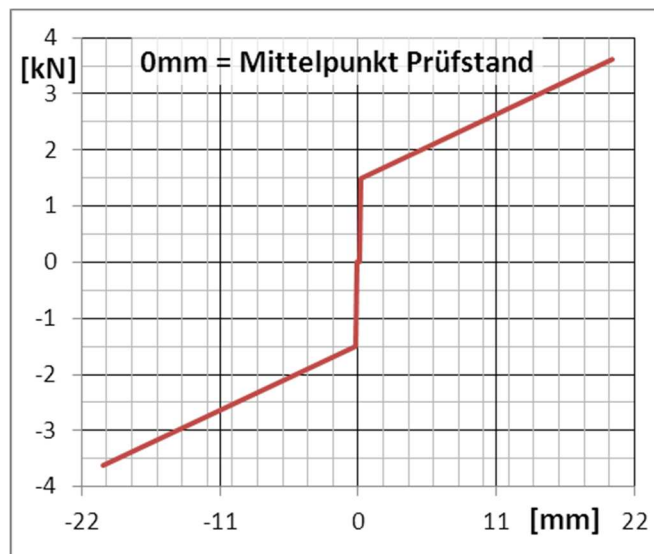
Class A and B - Inching

Parameter (EN 15714-2:2009)	Specified-value	Actual-value
Duty cycle	Class A-B	PSL208/230VAC
Switching cycles: class C	15 cycles/hour	30 cycles/hour
Duration (cycles)	10.000	> 50.000
Ambient temperature	15°C - 30°C	19°C - 22°C
Load (load curve)	For 90% travel = 30% nominal load (2,4kN) For 10% travel = 100% nominal load (8kN)	Ø2,55 kN Ø8,5 kN
Stroke	40mm	48mm

Class C - Modulation

Parameter (EN 15714-2:2009)	Specified-value	Actual-value
Duty cycle	Class C	PSL208/230VAC
Switching cycles: class C	1200 starts/hour	2400 starts/hour
Duration (starts)	1.800.000	> 10.000.000
Ambient temperature	15°C - 30°C	19°C - 22°C
Load (load curve)	Min. 30% nominal load (2,4kN)	Ø2,55 kN
Stroke	40mm	44mm

Load curve of test bench Class C



0mm = center of test bench (tension-compression)

With the help of the load curve, it demonstrates that the requirements of the tests are far in excess of the standard recommendation. This gives us the certainty to deliver actuators with high quality, which PS Automation is committed. PS Automation can combine quality and price by innovative technology that is why we are able to serve the customer with **Best Value for Money**.

The innovative idea is lived by employees of PS Automation and therefore based on the actuators, which have proved to be successful, we will continuously promote the technical development of our products and our services, meet future functional requirements for valve actuators and therefore systematically increase customer benefits.

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