PS Automation
Gesellschaft für Antriebstechnik
We care for actuation.

Optional accessories

The PSQ actuators from PS Automation are compact and have a modular concept; the upgrading with accessories is even possible on site.

Accessories for a PSQ

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

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

For a PSQ-AMS: Additional status signal

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

For a PSQ-AMS: 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 PSQ-AMS: Integrated process controller

Enables the independant 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 PSQ-AMS: 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 PSQ-AMS: 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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Engineered and Made in Germany

PS Automation
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PSQ
PSQ-AMS

Quarter-turn actuators

50 Nm - 1000 Nm
AMS programmable

PSQ/PSQ-AMS

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Quarter-turn actuators

Most process plants in the water, power, oil and gas, food and pharmaceutical industry as well as industrial utilities produce around the clock.

Disruptions cost money and affect the process quality. The electrical quarter-turn actuators PSQ or the programmable actuators PSQ-AMS of PS Automation are ideal for the usage in new plants or in case of process changeovers.

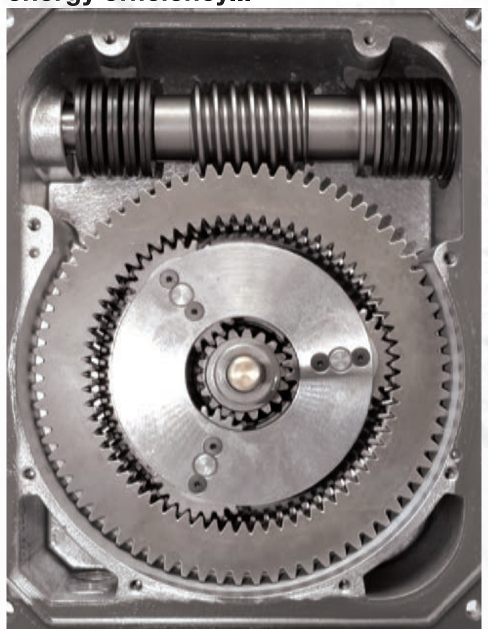
Engineered and Made in Germany.

A PSQ is just as robust as the valve

The compact PSQ quarter-turn actuators of PS Automation are available from 50 Nm up to 1000 Nm torque. Different stroke options are available e.g. 90°, 180° or others. They are even available with continuous rotation upon request.
They are mature and proven, very robust and completely maintenance-free. Since entering the marketing 15 years ago, gear damages by wear have not occured under normal operation. This is why we can assume that a PSQ lasts as long as the valve.

When buying a PSQ from PS Automation, the specialist for valve actuators, the only thing to consider is the reasonable price as well as the running costs. There are no maintenance costs!

Long lifetime, process security and energy efficiency...



In combination with the patented AMS control, the PSQ becomes programmable

A PSQ-AMS 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.

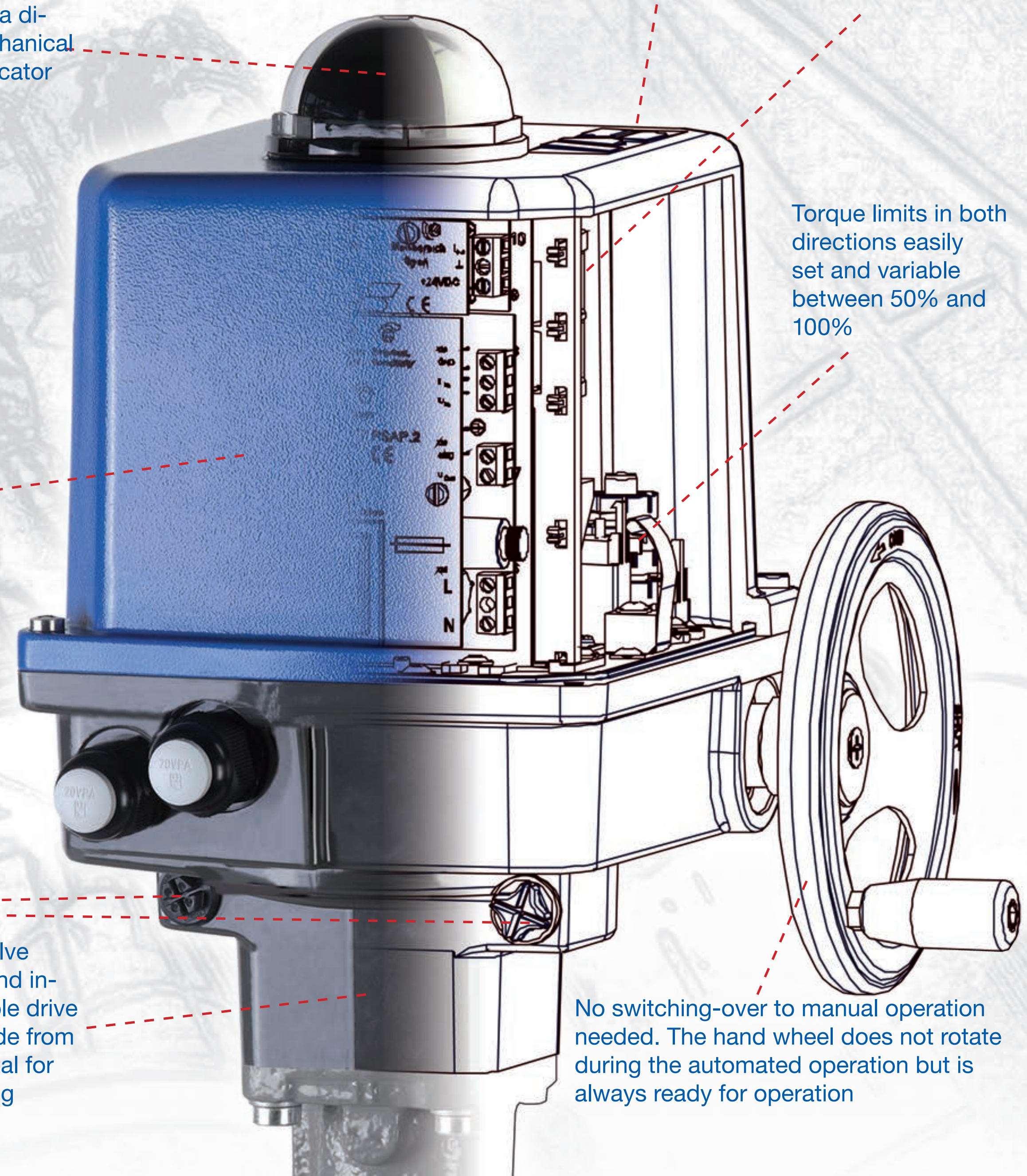
Due to the softstart function, a PSQ-AMS is valve-friendly and therefore supports a high process demand. A higher starting torque may also be set.

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
- Splitrange control is possible too

Electronic board

AMS model with local control and failsafe function

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



Synchronous or brake motors with fast stop for accurate positioning

Visible from a distance: mechanical position indicator

Torque limits in both directions easily set and variable between 50% and 100%

Compact, corrision-resistant, robust and lightweight through high-quality aluminum alloys

Covered mechanical limit stops which can be set in a range of +/- 5°

ISO 5211 valve connector and interchangeable drive bushing made from sintered metal for fast mounting

No switching-over to manual operation needed. The hand wheel does not rotate during the automated operation but is always ready for operation