

PSQ PS-AMS PSQ

Quarter-turn actuators

50 Nm - 3000 Nm
AMS programmable



PSQ/PS-AMS PSQ

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 PS-AMS PSQ 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 3000 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 occurred 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 PS-AMS PSQ is installed fast and is programmable due to the local control with display, alternatively via the USB-interface or the ethernet 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 PSQ 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



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

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

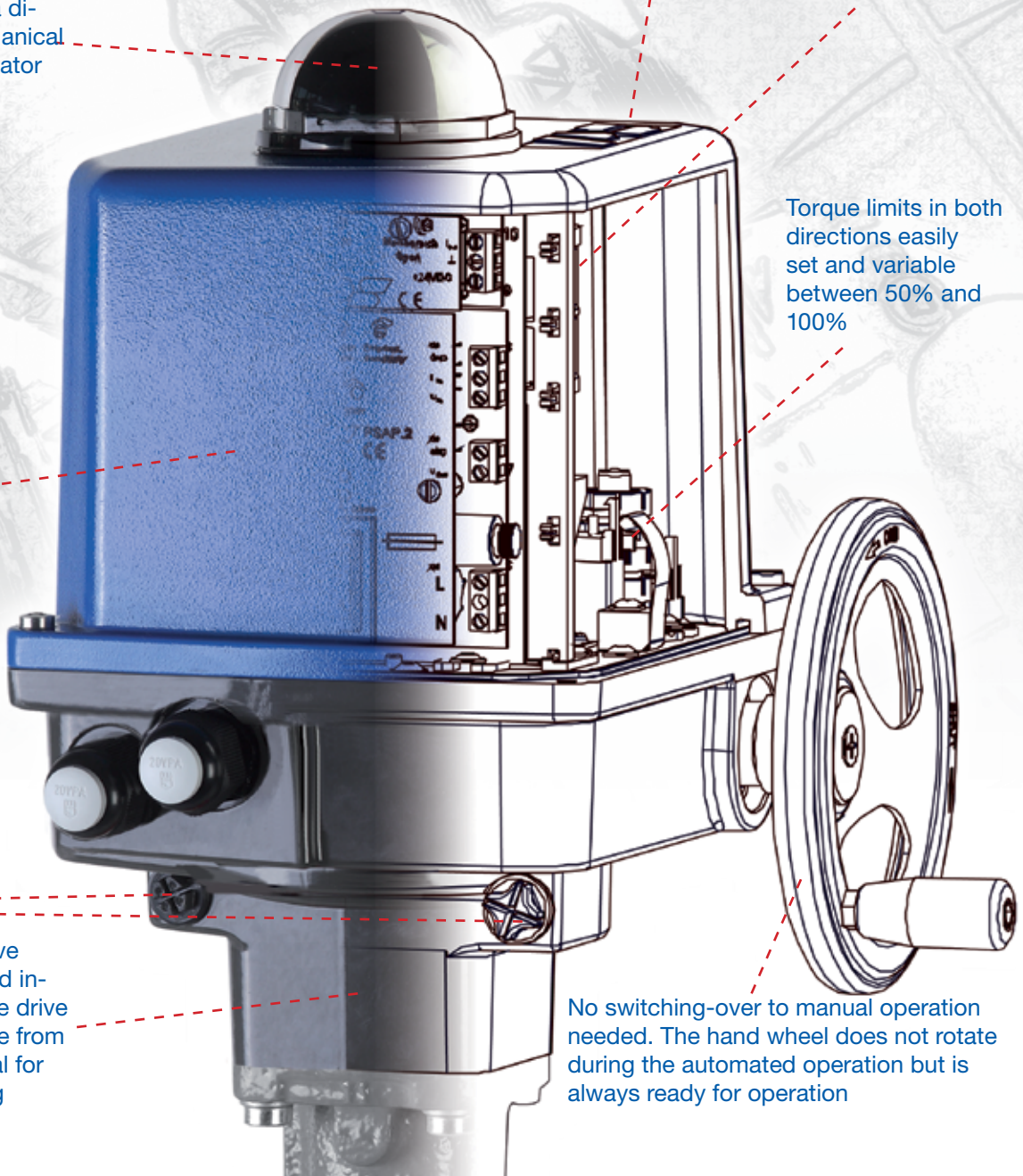
**AMS model with
local control and
failsafe function**



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

Visible from a di-
stance: mechanical
position indicator

Synchronous
or brake motors
with fast stop
for accurate posi-
tioning



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

ISO 5211 valve
connector and in-
terchangeable 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

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 PS-AMS PSQ: Additional status signal

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

For a PS-AMS PSQ: 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 PSQ: 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 PSQ: 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 PSQ: 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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