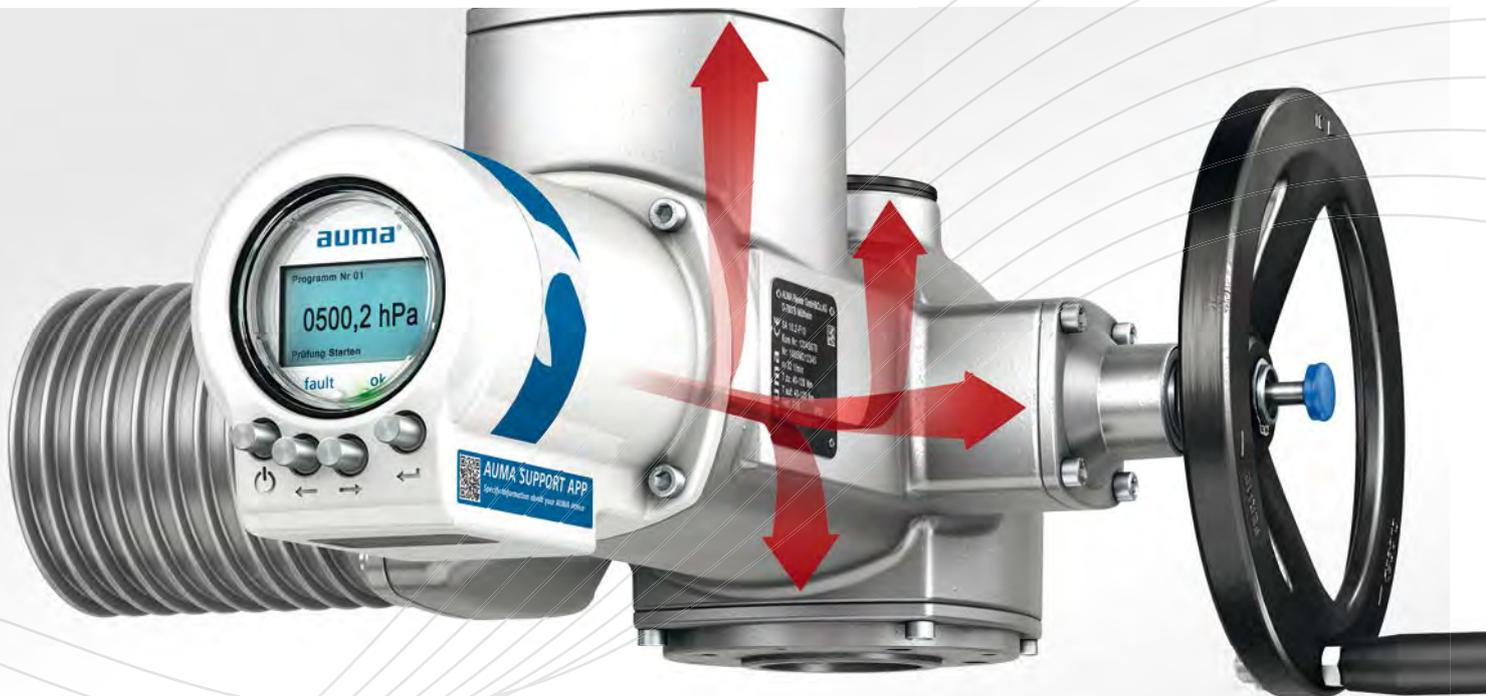




MOBILE LEAKAGE TESTER

for on-site testing of AUMA actuators



PV 1691 MOBILE LEAKAGE TESTER

As standard, AUMA actuators are designed in top grade enclosure protection IP68. Hence the inside of the device is protected against ingress of dust and humidity in particular, ensuring reliable actuator operation over longer periods of time. Prior to delivery, enclosure protection is verified with an overpressure test during of final functional testing.

When installing the actuator in the plant or during maintenance work, the device has to be opened at several points, e.g. for electrical connection. The enclosure protection level will only be maintained if all housing cover seals are fitted properly and suitable cable glands are used.

Leak tightness test at the place of installation

Leak tightness of the device can be verified at the place of installation using the PV 1691 mobile leakage tester. Integral rechargeable batteries supply the power for the leakage tester allowing for flexible use throughout the plant.

Diagnostics – leakage check

Should the tester detect a leakage, it can be located using the leak detection spray supplied. The spray is applied to potential leakage points, i.e. cable entries and housing joints. Due to the overpressure within the specimen, the air escaping at the leaking point will form bubbles in the sprayed-on layer.

Eligible actuator/actuator controls

The following actuator types can be tested:

- > Multi-turn actuators SA 07.2 – SA 16.2/SAR 07.2 – SAR 16.2 with or without AM or AC integral actuator controls
- > Multi-turn actuators SA 25.1 – SA 40.1/SAR 25.1 – SAR 30.1
- > Part-turn actuators SQ 05.2 – SQ 14.2/ SQR 05.2 – SQR 14.2 with or without AM or AC integral actuator controls
- > Explosion-proof multi-turn actuators SAEx 07.2 – SAEx 16.2/ SAREx 07.2 – SAREx 16.2 with or without AMExC or ACExC integral actuator controls.
- > Explosion-proof part-turn actuators SQEx 05.2 – SQEx 14.2/ SQREx 05.2 – SQREx 14.2 with or without AMExC or ACExC integral actuator controls.
- > AM and AC actuator controls as individual devices, e.g. when mounted on wall brackets.
- > Explosion-proof AMExC and ACExC actuator controls as individual devices, e.g. when mounted on wall brackets.

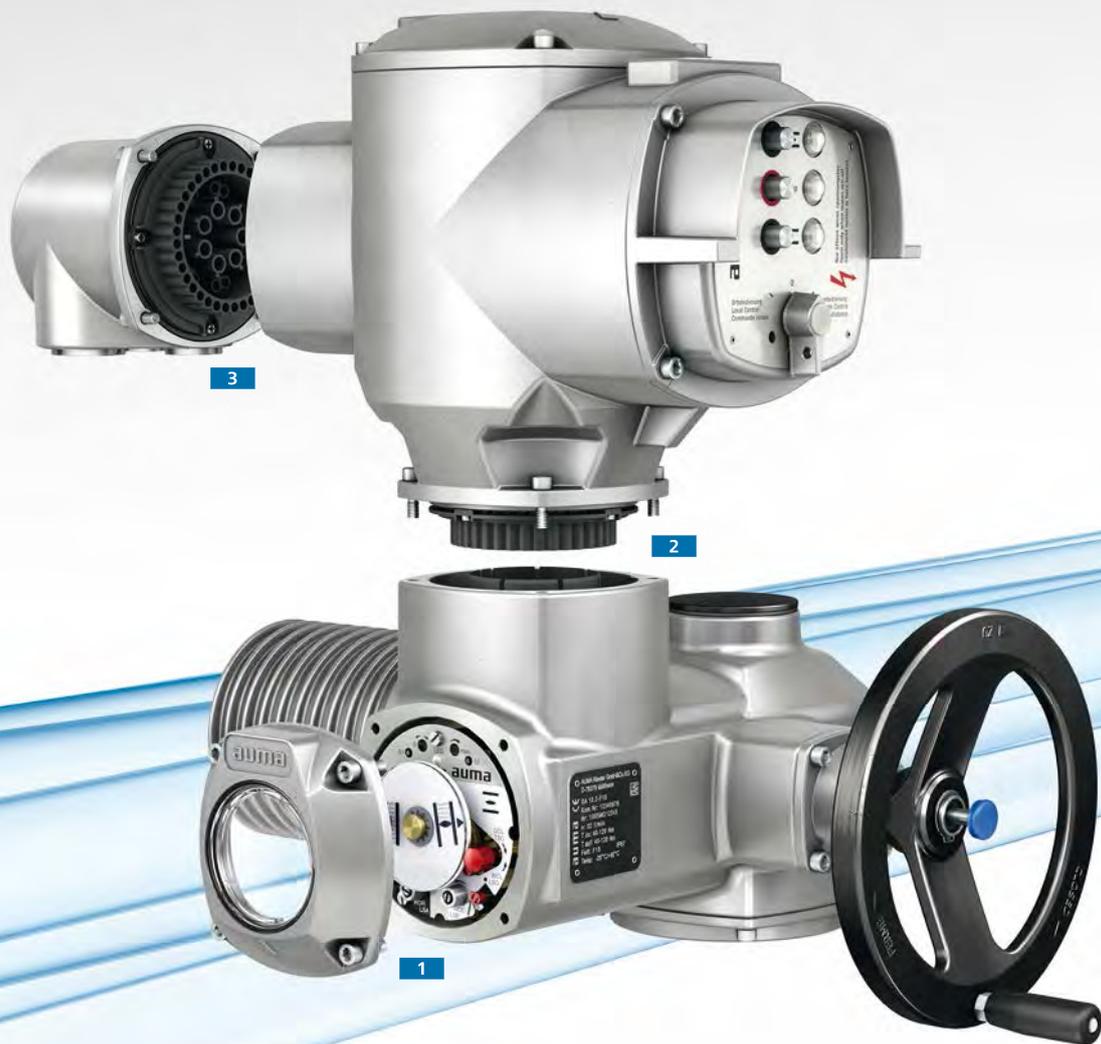
Furthermore, S and KP electrical connections can be tested as separate units.

SCOPE OF DELIVERY

The PV 1691 leakage tester is supplied in a robust case with comprehensive accessories.

- > PV 1691 leakage tester **a**
- > Adapter for testing the electrical connections **b**
- > AUMA spanner for removing housing covers and fitting the leakage tester **c**
- > Mains charger for charging integral leakage tester batteries **d**
- > Leak detection spray **e**
- > Operation instructions are stored underneath the case lining (top) **f**





Performing a leak tightness test

The PV 1691 leakage tester can be fitted to various housing interfaces once the respective housing covers have been removed. When testing the complete actuator, the switch compartment **1** is the perfect place for mounting the PV 1691. When testing only AC or AM actuator controls, select the plug/socket connector to the actuator **2**; when testing the electrical connection, the tester is screwed to the plug cover **3** using the adapter.

The test will start after selecting the appropriate test program. The PV 1691 leakage tester generates overpressure within the device to be tested and records pressure over time. At the end of the test interval, PV 1691 will either confirm leak tightness or signal a leakage.



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