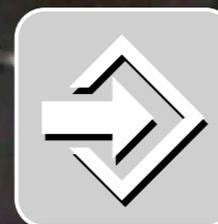


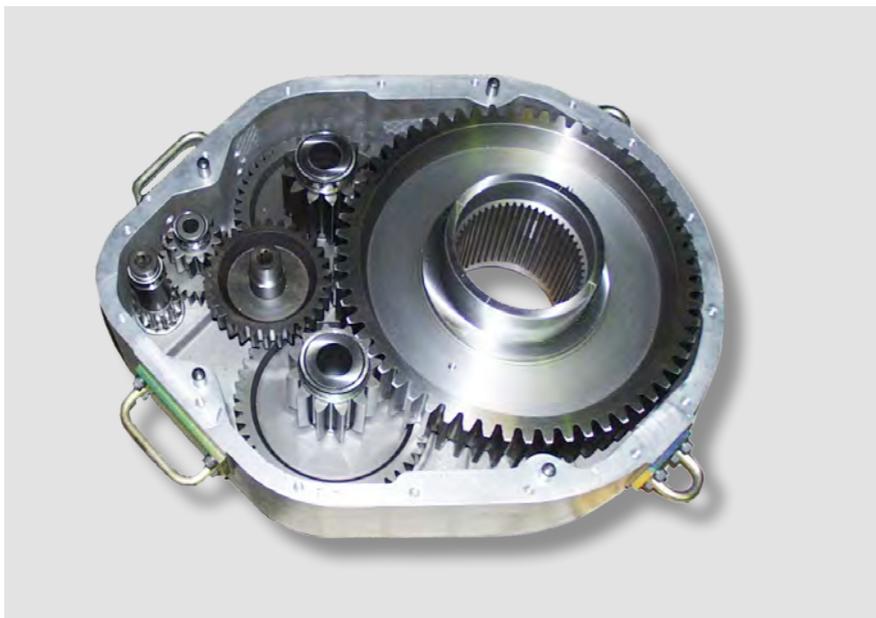
VTT-System

Valve-Torque-Test-System

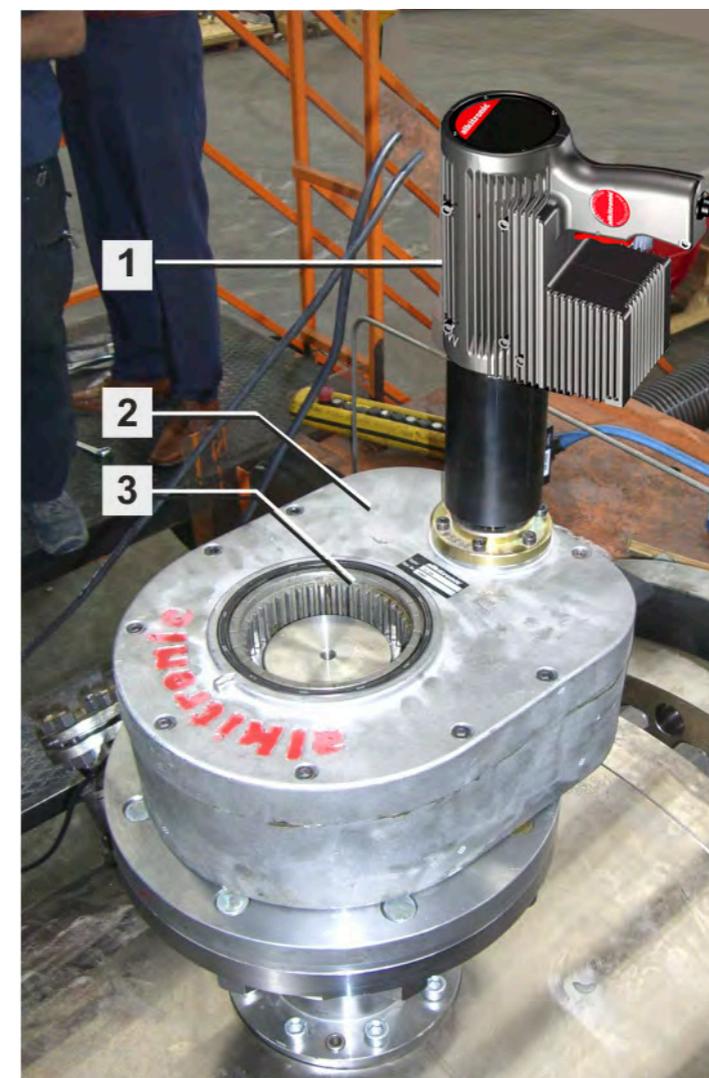


Application

Oil and gas industry is involved in the transport of hazardous chemicals. Therefore actuated valves must perform correctly and provide high performance. Ball valve manufacturers are responsible for testing and publishing valve torque data. Comprehensive **reporting and documentation for the end user is of utmost importance**. Ball valves and actuators which do not work properly reduce safety during production processes and increase acquisition and maintenance costs significantly.

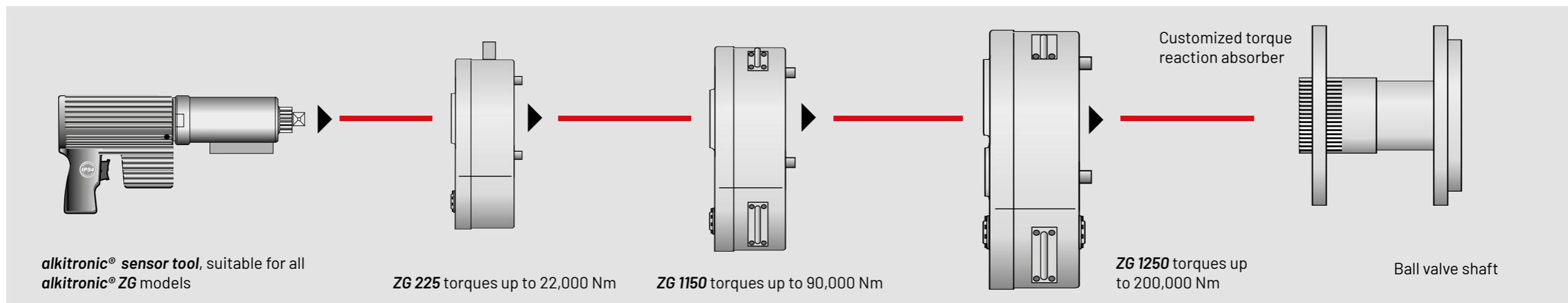


- 1 alkitronic[®] Sensor torque tool
- 2 alkitronic[®] ZG 225
- 3 Customized adaptor



Advantages and *alkitronic*[®] specials

- *alkitronic*[®] **Sensor tools** and **ZG** are ideal for testing all kinds of valves of all sizes
- Torque testing equipment consists of a sensor torque tool, an applicatio software and an operation panel
- Customized to test 90° opening and closing cycles of ball valves with a tool torque range of central gear up to 200,000 Nm
- *alkitronic*[®] **MDS** and **ZG** outperform international standards of traceability of torque values, quality and reliability
- The documentation of torque values helps to identify and avoid threatening risks (e.g. running costs). Moreover, it enables you to prove the necessary torque to move the ball valve with different loads.



Scope of Delivery



VTT - Tablet

USB Mouse
USB Keyboard
DC Power Supply

VTT - Box

USB cable
Network cable

EFCip 1000 SD

Blue data plug
Silver data plug
230V AC plug



Scope of Options

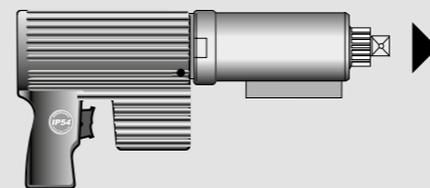
 **MADE IN GERMANY**



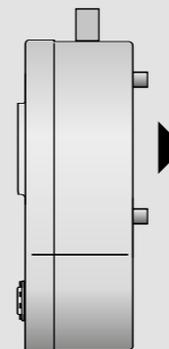
VTT-System (Valve-Torque-Test-System)

alkitronic[®] *sensor tool*, suitable for all *alkitronic*[®] ZG models

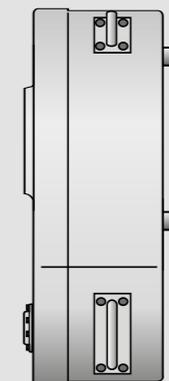
alkitronic[®] *sensor tools* torques up to 2,000 Nm



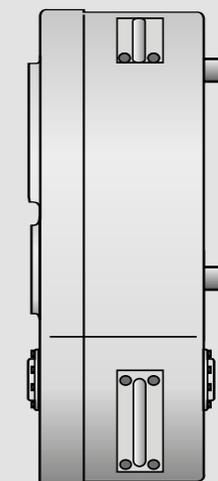
ZG 225 torques up to 22,000 Nm



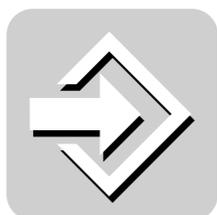
ZG 1150 torques up to 90,000 Nm



ZG 1250 torques up to 200,000 Nm



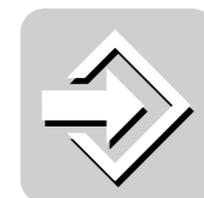
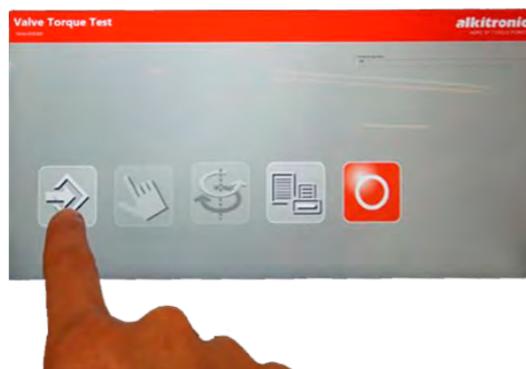
VTT - Software



Parameter

Enter, check and confirm all the necessary information:

- Customer address
- Inspector
- Test description
- Serial number
- Valve
- Tolerance
- Language



▲
Parameter

company name

company:
department:
Name:
Street & house number:
Zip Code / City:

tester
Alex Goixens

testing name
Test 123

testing serial number

Screwdriver selection
1-EFCip SN xxx-yy-zzzzzz Next Service 18.02.2021

Gear selection

valve type - DN - seat - conector - socket - min torque - max torque
valve type - DN - seat - conector - socket - min torque - max torque

current torque
0.00

max. valid angel deviation (°)
1.00

language
English

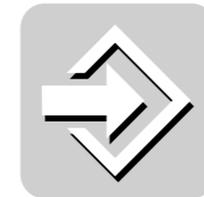
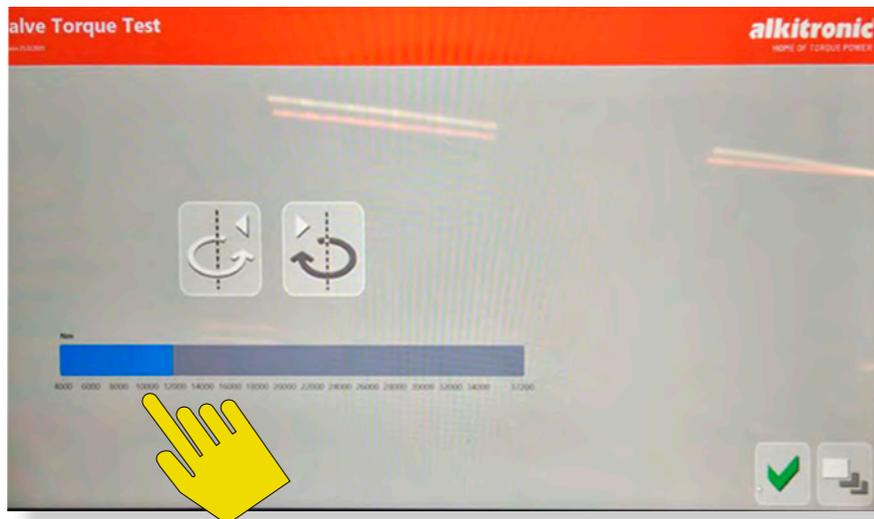
VTT - Software



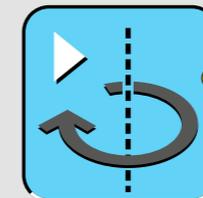
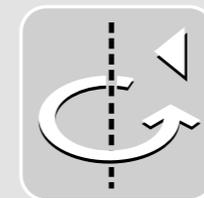
Manual Mode

Position the square of the **alkitronic**[®] *sensor tool* or the valve in the required position. Double check the position. Confirm the status for the next step.

Choose the torque (Nm) you need



Manual Mode



Select the direction and activate the **alkitronic**[®] *sensor tool* with a double click.

Nm



4000 6000 8000 10000 12000 14000 16000 18000 20000 22000

VTT - Software



Test Mode

Enter all the necessary information and check the information. Start the test.

- 1 cycle Test => up to 100 cycles
- Output value (Nm and angle°)
- Data record and storage.

Half-cycle evaluation in the first 10%, the middle 80% and the last 10%:

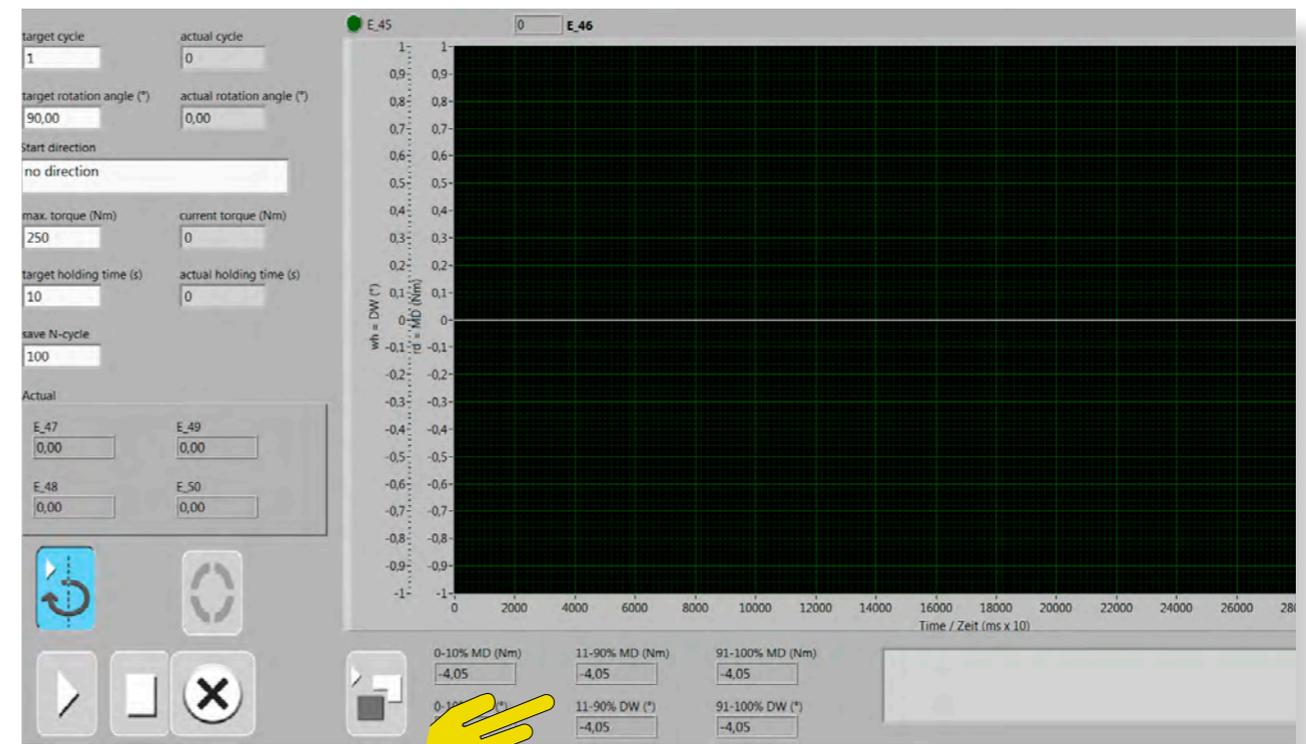
Max Nm with the associated angle.

The data are output after half the cycle and automatically noted on the certificate.

first 0-10 % : max Nm	middle 11-90 % : max Nm	last 91-100 % : max Nm
(MD) => Nm	(MD) => Nm	(MD) => Nm
DW =angle (°)	DW =angle (°)	DW =angle (°)



▲
Test Mode



VTT - Software

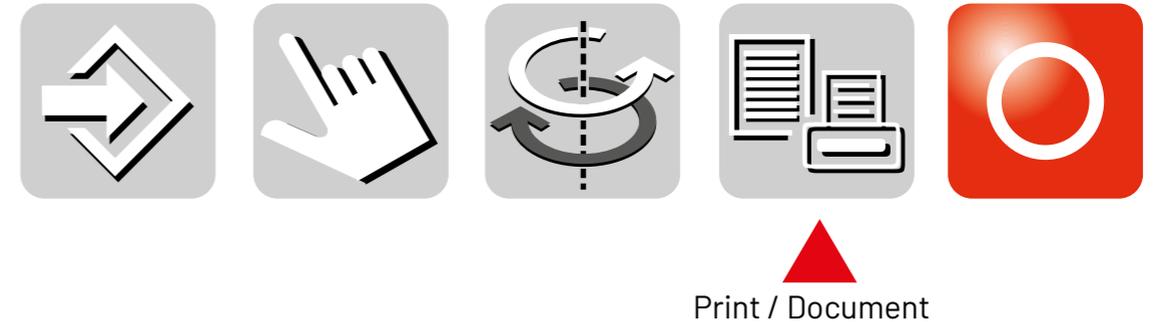


Print / Documentation Mode

Enter, check and confirm all the
All test-data are saved automati-
cally. The file name of the data
record is made up of the param-
eter information and date / time.

Certificate creation:

- Selectable between the standard certificate and the very detailed test protocol.
- The file name of the certificate can be chosen freely.
- A comment can be written about the test that appears on the certificate.



alkitronic®

YOUR PLUS FOR MORE PERFORMANCE

Increased quality

Premium production
Highest quality materials
Long product life cycles
30 years experience in bolting technology
Made in Germany – international patents

Increased precision

Precise, customer-specific torques
High repeatability
Reliability in permanent operation
Dokumentation of tightening results
Automatic shut-off

Increased productivity

Quicker tightening without reworking
No environmentally caused failures (IP54, ATEX)
High work safety
Easy to use: clear, simple instructions
Low maintenance and cost efficient

Better service

Technical advice on site
Training offers
Manufacturer's calibration and certification
Lifecycle support
Spare part and repair service

**Thank you
for your
attention!**

alki TECHNIK GmbH
Development, Production and Distribution of Bolting Systems

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info@alkitronic.com – www.alkitronic.com