Pump test bench to DIN EN ISO 9906

with characteristic curve and efficiency

AT A GLANCE

ISO 9906
Testing to DIN EN ISO 9906

Characteristic curve
Head, power and efficiency against flow rate

Water
Standard test medium

For each pump
Test report with serial number and test date



With the NIKLAS Pump Bench, our pump test bench, you measure the characteristic curve, shaft power and efficiency of centrifugal pumps to DIN EN ISO 9906. We design the test circuit, drive and measuring equipment for your pump types.

Measurements

- Flow rate across the operating range
- Pressure on suction and discharge side
- Head
- Speed at each operating point
- Shaft power from torque and speed
- Hydraulic power
- Efficiency at each operating point
- Characteristic curve as a diagram in the report

Equipment

Test circuit with tank and measuring section
We design the test circuit, drive and measuring equipment for your pump types.

Guarding on rotating parts
We design the test circuit, fixture and guarding on rotating parts according to your pump types.

Fixture and connections
Your pump types get a fixture and connections according to design, flange size and drive power.

Operating screen on a swivel arm
The test software guides you through the test plan and shows the characteristic curve as a diagram.

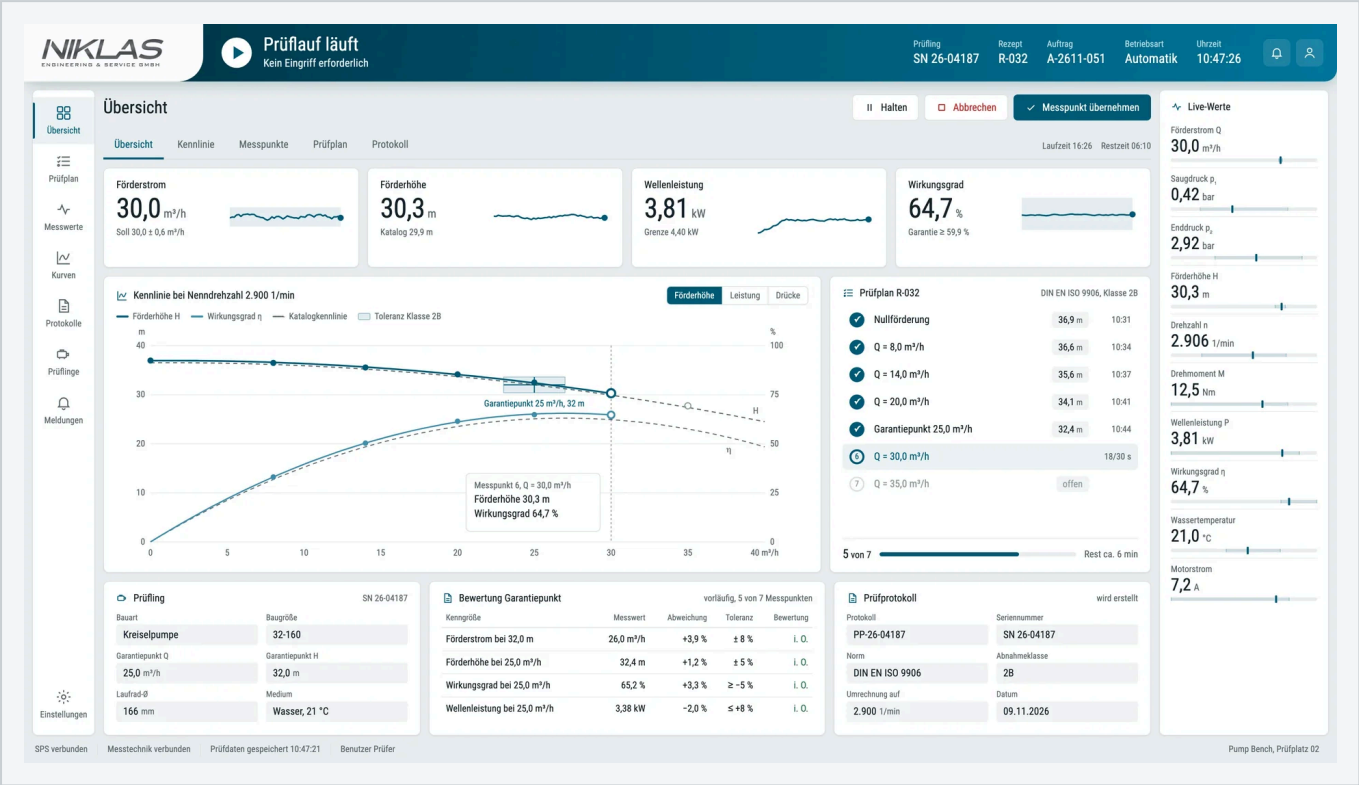
Technical data

Feature	Specification
Test items	Centrifugal pumps
Test standard	DIN EN ISO 9906
Acceptance grade	1B, 1E, 1U, 2B, 2U, 3B to DIN EN ISO 9906, grade 1 with measuring shaft
Test medium	Water (standard), other media project-specific
Flow rate	up to 400 m³/h, depending on configuration and nominal size
Head	up to 150 m, pressure rating PN 16 or PN 25 depending on configuration
Drive power	up to 90 kW shaft power, depending on drive and cooling
Speed	infinitely variable up to 3,600 1/min via frequency converter
Pump connection	DN 25 to DN 200, flange adapter for each pump type
Measured variables	Flow rate, pressure on suction and discharge side, speed, shaft power
Evaluation	Head, hydraulic power, efficiency at each operating point, characteristic curve
Guarding	Test circuit with guarding on rotating parts
Test report	Characteristic curve as a diagram, serial number and test date for each pump
Dimensions (W × D × H)	to customer specification
Water and power connections	400 V 3/N/PE 50 Hz up to 200 A, water for filling, drain, cooling optional

Options

- Measurement of suction behaviour (NPSH), after prior clarification
- Simulation of the suction head with a throttle on the suction side, after clarification
- Test circuit for other media, temperatures or contamination, project-specific
- Measurements for fire-fighting centrifugal pumps to DIN EN 1028, after clarification

Software



The test software guides you through the test plan with test points and grade according to your specification, shows the characteristic curve as a diagram and creates the test report with serial number and test date.

Request a quotation

Tell us the pump types with design, connection sizes, weight and drive power, plus standard and grade, test points, test medium, tests per day and the installation site with water and power connections.

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As of 11/2026 · Subject to technical changes