

ONLINE CONTROL & POSITIONER TESTER



VENTRACK

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VENTRACK Diagnostic System for Control Valves and Positioners.



The Ventil VENTRACK is a test system for all types and brands of control valves and positioners. The system is designed to test the specifications and performance of valve positioners along with the control valve. The system is designed around a control cabinet which enables you to measure and generate all necessary signals. The automatic tests and the diagnostic tools are controlled by the industrial laptop computer. The positioner can be mounted on the standard positioner stand which fits all commonly used positioners. If a seat leakage test is to be performed during assembly an optional clamp system is available. Specific positioner functionality like, Input signal, Air consumption, Output air supply capacity and pressure of any type of valve positioner are measured and reported. The performance of control valves can be diagnosed with the VENTRACK. When all essential functions are measured, the system enables the user to diagnose the presented graphs and certify the findings.

Technical specification VENTRACK

Input channels:

- ✓ Dual channel flow and pressure measurements for single and double acting actuators.
- ✓ 0 – 21 mA measurement.
- ✓ Travel measurement, both linear and rotary valves.

Output channels:

- ✓ Supply pressure for positioner / control valve under test
- ✓ Set pressure for P/P positioner 0.2 – 1.0 bar
- ✓ 4- 20 mA signal for I/P positioner

Further system description:

- ✓ Control cabinet: Rugged Flight Case make: PELICASE.
- ✓ Computer: heavy duty industrial laptop.
- ✓ Positioner mounting stand: stabile universal table stand.
- ✓ Control valve clamp system to enable seat leakage test.
- ✓ A3 Solenoid tester to operate solenoid valves without an additional power supply.



Technical specification VENTRACK

Positioner.

- ✓ Steady state flow: measuring internal air consumption
- ✓ Accuracy: measuring output air pressure against increasing input changes
- ✓ Max. air flow capacity to actuator
- ✓ Max. air pressure to actuator

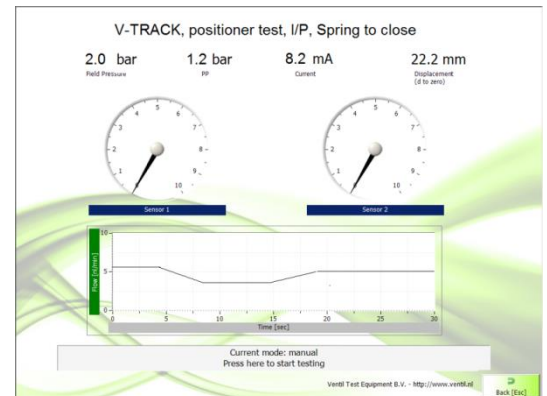
Control Valve

- ✓ Ramp test: measuring valve position and actuator pressure against a ramped 0 – 100% input signal
- ✓ Accuracy: measuring valve position against increasing input changes
- ✓ Controllability: measuring valve position and actuator pressure against a block shaped input signal

Seat Leakage Test

- ✓ Enabling on the workbench seat leakage test when control valve has upstream connection
- ✓ with the test system.

All test and measured values are of the positioner and/or control valves tests are stored in the database of the VENTRACK test system. The data shown on the certificate, including graphs which are automatically generated after testing, is user defined.



Optional Features.

Option 166 – HVC Clamp system.

The HVC-1 is a robust, pedestal mounted clamping system for (dis)assembling, stroking (adjusting) and low pressure testing of flanged / waver type (control) valves. The pneumatic operated 2-Claw clamping system generates a maximum clamping force of 1000 kg and is suitable for the range ½ - 6" / DN15 – 150 mm.

- ✓ Strong base for floor fixation (required for full and safe operation)
- ✓ Adapter clamps, for clamping exotic shaped valves.
- ✓ Hand lever for simultaneously operating the 2 clamping claws.
- ✓ Sealing adapter (clamping table) with O-rings for DIN / ANSI RF flanges.
- ✓ Valve support and align system, adjustable for the full range.
- ✓ 90° tilting construction (hand operated).
- ✓ Safety interlock system.

