Software for hydraulic devices tests

AQ2TB-KV-LAB

Software for flow-rate tests and Kv coefficient calculation with measure of pressure loss.

The software allows to evaluate the local pressure loss, caused by a device installed in a hydraulic plant, measuring the differential pressure ∆P, as a function of flow-rate.
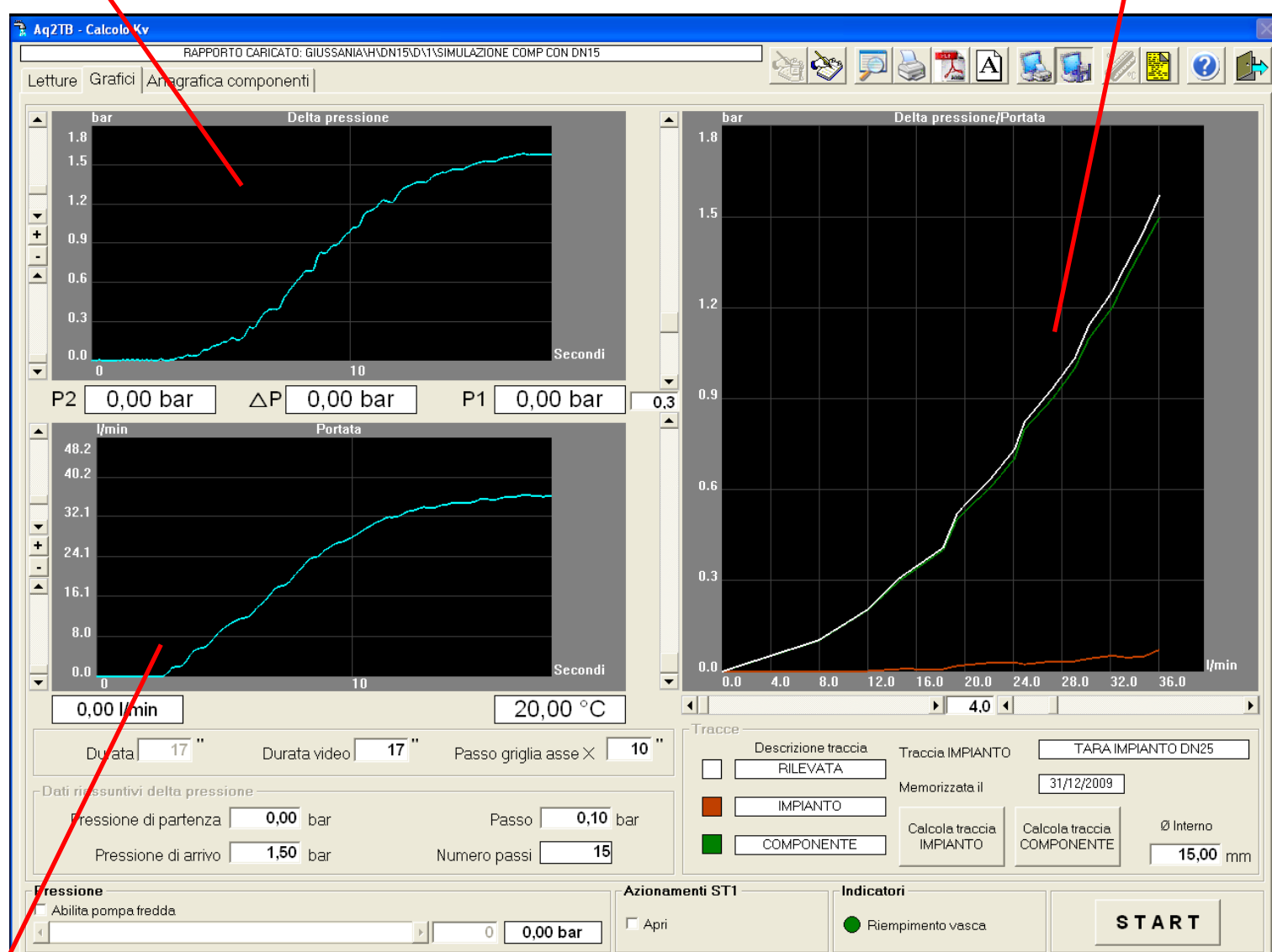
Set the initial pressure of the test, the operator manually increases the flow-rate of the hydraulic device and the software automatically associates, for each significant value of ∆P between the inlet and the outlet of the component, the corresponding flow-rate value that generates it.

During the calibration is detected the pressure loss of the test rig without any devices installed in order that, at the end of each test, the software can subtract from the results the contribution of the test rig and provide the value of losses due only to the device under test.

The charts of pressure and flow are shown in real time, while the trend of pressure loss depurated from the contribution of the test rig is calculated and shown at the end of the test.

DIFFERENTIAL PRESSURE

"DELTA PRESSURE/FLOW-RATE" CHART. IT IS SHOWN THE CONTRIBUTION OF THE DEVICE UNDER TEST AND THE CONTRIBUTION OF THE TEST RIG
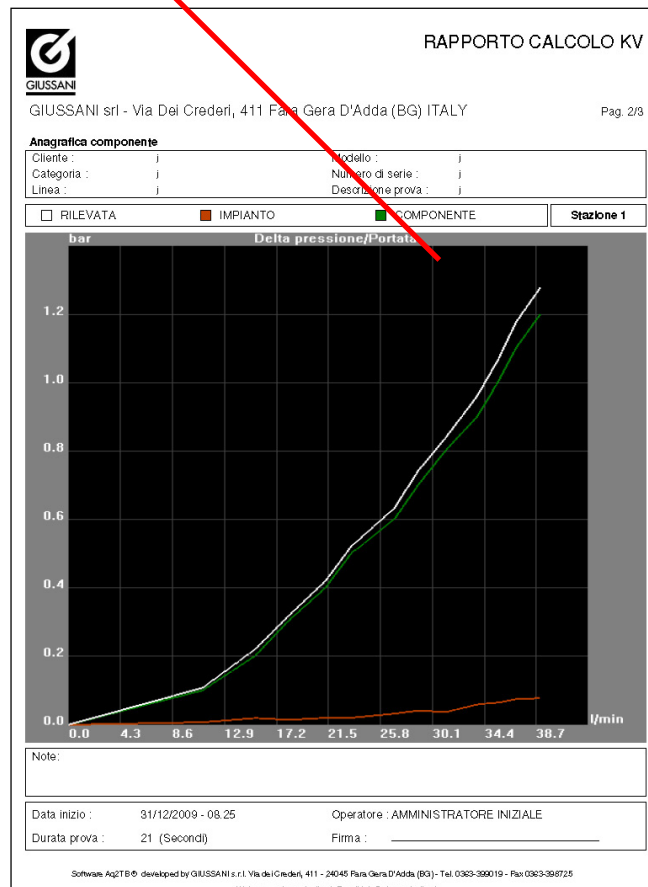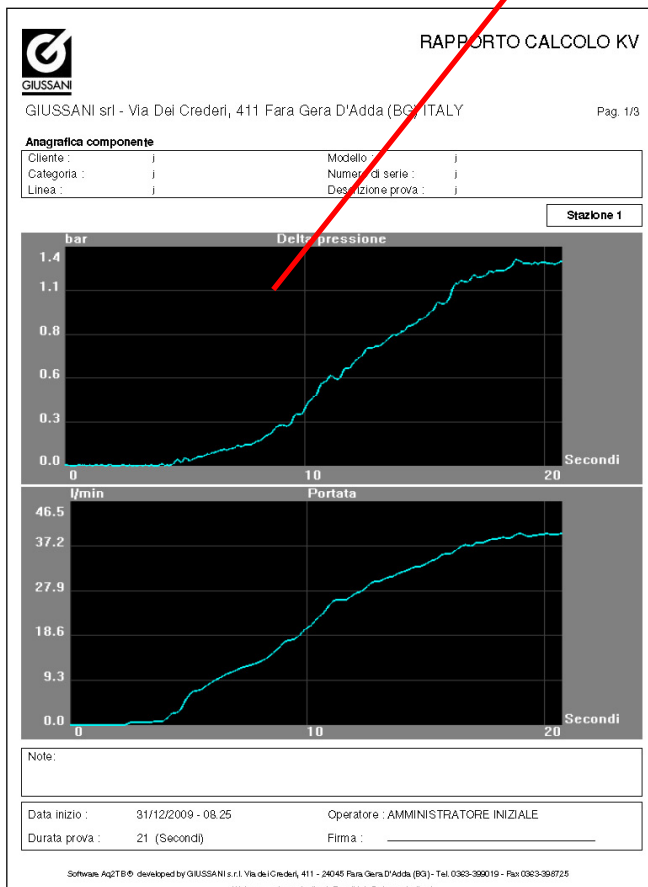

FLOW-RATE

Setting of test parameters:

SETTING OF TEST RIG DATA

Example of test report:

SUMMARY OF CHARTS

SUMMARY DATA OF THE TESTS

GIUSSANI S.r.l.
Via dei Crederi, 411
24045 Fara Gera d'Adda (BG) - Italy
Tel.: 0363/399019 - Fax.: 0363/398725
www.giussanionline.it
E-mail: info@giussanionline.it

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