Software for hydraulic devices tests

AQ2TB-STATICAUT

Software for performing static pressure tests and burst tests on hydraulic devices.

The software allows to evaluate the tightness of the device under test when subjected to static pressure according to the conditions established by the main international Standards; it also allows to evaluate the maximum pressure that can reach the device before the burst.
It is possible to customize each test by setting the main parameters of execution:

- initial pressure slope (executable by hydraulic pump);
- time and pressure of stabilization;
- final pressure slope.

The setting of the final pressure slope is used to establish the type of test to execute: setting a negative value, the pressure drop to the initial value (**static test**); setting a positive value, the pressure increases until the burst of the component under test (**burst test**). For test benches equipped with climatic chamber and/or hot water supply tank, it is possible to set the temperature range of chamber and hot water within which allow the start of the test.
At last, setting the limits of interruption properly, the software evaluates the burst of the hydraulic device automatically and stops the test.

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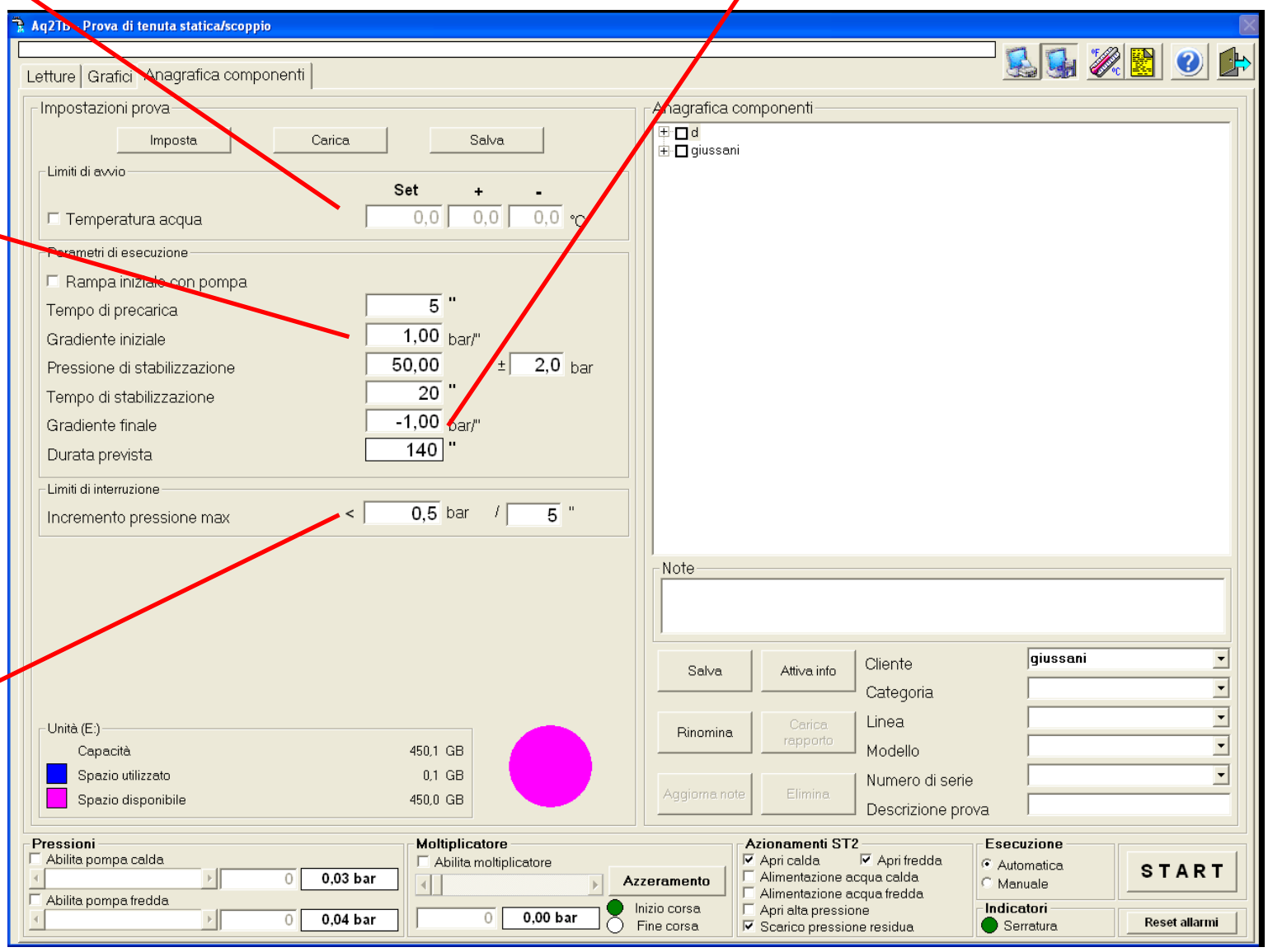
Setting of test parameters:

SETTING OF START-UP TEST LIMITS

Final pressure slope: setting a positive value, the pressure increases until the burst of the component under test (**burst test**); setting a negative value, the pressure drop to the initial value (**static test**).

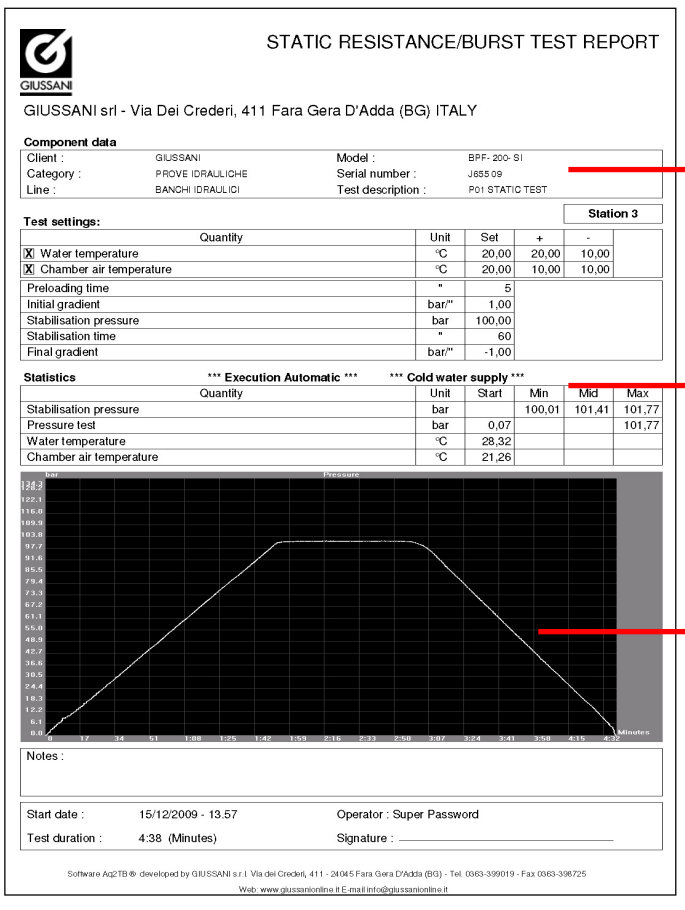
SETTTING OF PRESSURE SLOPE AND STABILIZATION PRESSURE

SETTING OF TEST INTERRUPTION LIMITS



Example of test report:

Static test



STATIC RESISTANCE/BURST TEST REPORT

GIUSSANI srl - Via Dei Crederi, 411 Fara Gera D'Adda (BG) ITALY

Component data

Client :	GIUSSANI	Model :	BPF- 200- SI
Category :	PROVE IDRAULICHE	Serial number :	J655 09
Line :	BANCHI IDRAULICI	Test description :	P01 STATIC TEST

Test settings: Station 3

Quantity	Unit	Set	+	-
[X] Water temperature	°C	20,00	20,00	10,00
[X] Chamber air temperature	°C	20,00	10,00	10,00
Preloading time	"	5		
Initial gradient	bar/"	1,00		
Stabilisation pressure	bar	100,00		
Stabilisation time	"	60		
Final gradient	bar/"	-1,00		

Statistics *** Execution Automatic *** *** Cold water supply ***

Quantity	Unit	Start	Min	Mid	Max
Stabilisation pressure	bar		100,01	101,41	101,77
Pressure test	bar	0,07			101,77
Water temperature	°C	28,32			
Chamber air temperature	°C	21,26			

Notes :

Start date : 15/12/2009 - 13.57 Operator : Super Password

Test duration : 4:38 (Minutes) Signature : _____

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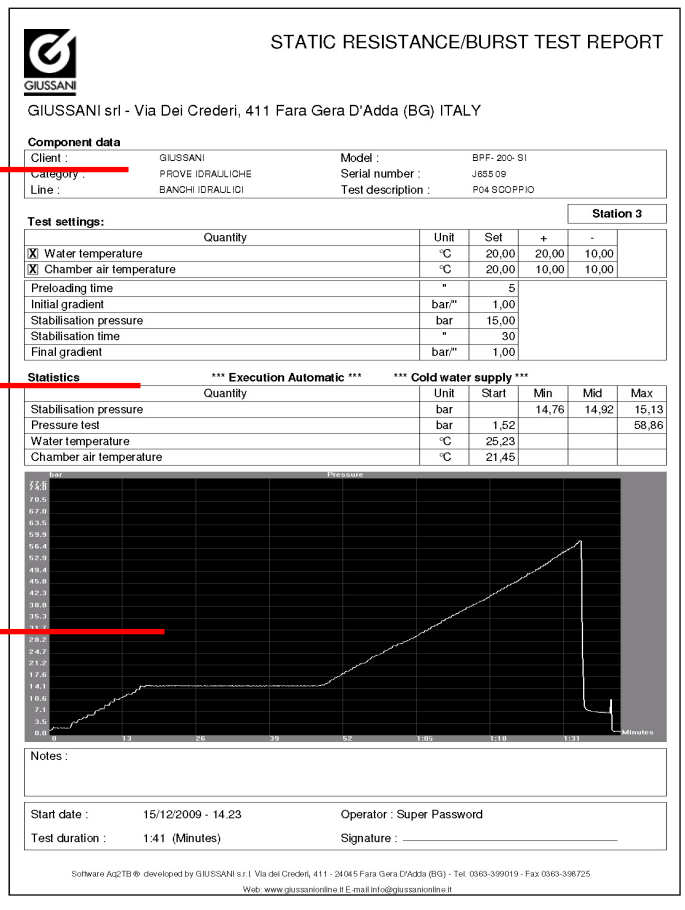
SUMMARY OF COMPONENT DATA

SUMMARY DATA OF THE TEST

CHARTS SUMMARY

Burst test



STATIC RESISTANCE/BURST TEST REPORT

GIUSSANI srl - Via Dei Crederi, 411 Fara Gera D'Adda (BG) ITALY

Component data

Client :	GIUSSANI	Model :	BPF- 200- SI
Category :	PROVE IDRAULICHE	Serial number :	J655 09
Line :	BANCHI IDRAULICI	Test description :	P04 SCOPPIO

Test settings: Station 3

Quantity	Unit	Set	+	-
[X] Water temperature	°C	20,00	20,00	10,00
[X] Chamber air temperature	°C	20,00	10,00	10,00
Preloading time	"	5		
Initial gradient	bar/"	1,00		
Stabilisation pressure	bar	15,00		
Stabilisation time	"	30		
Final gradient	bar/"	1,00		

Statistics *** Execution Automatic *** *** Cold water supply ***

Quantity	Unit	Start	Min	Mid	Max
Stabilisation pressure	bar		14,76	14,92	15,13
Pressure test	bar	1,52			58,86
Water temperature	°C	25,23			
Chamber air temperature	°C	21,45			

Notes :

Start date : 15/12/2009 - 14.23 Operator : Super Password

Test duration : 1:41 (Minutes) Signature : _____

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