

PULSE BASIC ESSENTIAL HYDRAULIC HOSES TEST BENCH



The BASIC PULSE bench for impulse testing of hoses is able to perform testings with "square" wave in accordance with ISO-UNI 6605, UNI ISO 6803, DIN 20 024 and SAE J343d.

The maximum pressure obtainable in the hose is about 94 MPa (940 bar) and the flow rate of pressurized oil supplied to each cycle is from 100 cc at 940 bar to 285 cc at 600 bar.

The maximum frequency is considered to be 1.2 Hz with a minimum frequency of 0.2 Hz

The two manifolds for connection of the tubes are fitted with No. 15 attacks each positioned 5 at 45° and 5 at 90° with respect to the work surface of the bench.

The maximum temperature of the oil for the impulse test is 130°C.

The minimum power of the main engine is 30 kW with total installed power of 40 kW.

The maximum size of the bench are: 3150 x 1800 h = 2320.

Optional:

- ◆ Ability to prepare the bench according to ISO6802 and ISO / FDIS 8032 and in alternation with an alternate motion of forward / backward of one of the two manifolds with a semi-sinusoidal trend.
- ◆ Refrigeration unit for independent temperature control of the hydraulic system (the standard bench is provided with a heat exchanger oil/water and expansion valve).
- ◆ Ability to prepare the bench for oil up to 150°C.



FLUIDS LIFE TIME EXTENSION

LIFE INCREASE OF PARTS AND EQUIPEMENT

REDUCING DOWNTIME AND MAINTENANCE COST

CONTAMINATION MANAGEMENT OF SYSTEMS & FLUIDS

FLUIDS MONITORING & LABORATORY ANALYSIS

SERVICES

Technical Support

Installation and Setup

Checking & Maintenance

Hardware Support



MAIN FEATURES

- ◆ The hydraulic system is divided into two parts, the system that supplies and controls the multiplier that operates at a temperature of about 45°C, and the system which fills the manifold and the hose under test that works at a temperature adjustable up to a maximum of 130°C.
- ◆ The pressure value in the test can be set in the configuration parameters and will not change (within the permissible tolerance range) throughout the test run thanks to the automatic feedback system which the bench has.
- ◆ The setting and storing the various configurations of the parameters for the different tests done through the management program in the PC that allows you to save and exchange of data and viewing and printing of test wave.
- ◆ Remote assistance software connected via the web for changes and updates to the software and on-line monitoring.

TECHNICAL DATA

Max flow rate (test/impulse)	140 cc—260 cc
Pmax	940 bar at 140 cc / 600 bar at 260 cc
Power	40 kW
Temp. max	130°C
Frequency min.-max.	0.2 Hz — 1 Hz
Testing conditions	Tilt-manifold - hoses from 5° to 90°
PC + Report	Proprietary Software
Size (mm)	3150 x 1800 h=2320
Optional :	
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◆	Refrigeration unit for independent temperature control of the hydraulic system (the standard bench is provided with a heat exchanger oil / water and expansion valve).
◆	Possibility to prepare the bench for oil up to 150 ° C

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- Technical Support*
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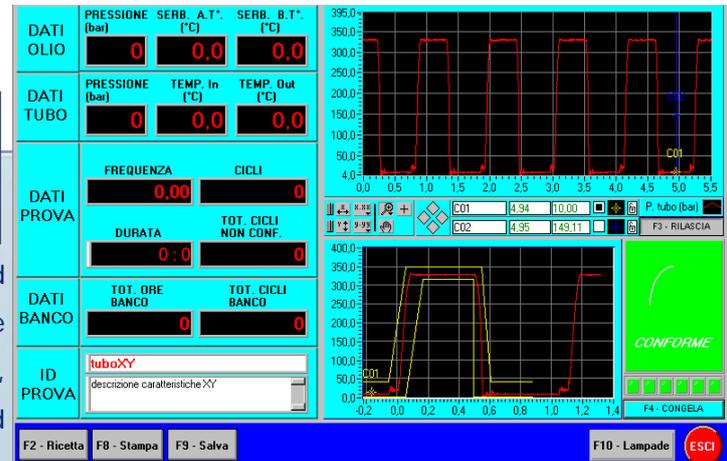
Viewing using OilSafe software square wave during testing

The wave trend is displayed constantly with oscilloscope effect in a frame of the screen, in another frame is displayed the wave with the reference

template and its tolerance with an indication of any parts that do not comply with the standard.

In the remaining parts of the screen displays the data and test parameters. You can zoom in on each stage of the test charts, freeze the image etc.

The report of the data and graphics is printed in A4 size and color, also can be printed or periodic cycles or on demand at any time.



View of the interior of the chamber during the execution of a test



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