OilSafe®
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OSIM 200 - TEST BENCH FOR HYDRAULICS HOSES STATIC TEST VERSION

FLUIDS LIFE TIME EXTENSION

LIFE INCREASE OF PARTS AND EQUIPEMENT

REDUCING DOWNTIME AND MAINTENANCE COST

CONTAMINATION MANAGEMENT OF SISTEMS & FLUIDS

FLUIDS MONITORING & LABORATORY ANALYSIS

The bench tests, depending on the type of intensifier installed, allows also accommodate pipes of large diameter. The digital control pressure and flow rate test carried out directly on the pump, combined with the Moog servovalve with high efficiency, allows to maintain unchanged the sensitivity of the test both for small pipes and for large.

To allow testing of pipes with a larger cross-section, the unit can supply up to 800 cc/pulse at a maximum pressure of 560 bar in a test with a square wave.

For testing pipes of small cross-section can be adopted in a configuration that allows to supply up to 200 cc/pulse at a maximum pressure of 1250 bar.

The electro/electronic management of the tests bench is done by PC, this allows to operate with different parameter configurations for testing stored and reused, to examine the square wave in real time and graphs for the various tests.

The test bench to leak and pulses allows the execution of the static tests in accordance with the following standards which define guidelines for "Methods of test for hose assemblies"

STATIC TEST: SQUARE WAVE PULSE

- SAE J343 D
- ISO 6803
- UNI 6605
- ISO 6772

SERVICES

Technical Support
Installation and Setup
Checking & Maintenance
Hardware Support

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MAIN FEATURES

- Work area with large size
- Tubular welded with stainless steel tank of 120 lt for the tests;
- Tubular welded with stainless steel tank of 350 lt for the ausxiliary;
- Motor pump unit for oil test;
- Motor pump unit with digital control of flow rate and pressure;
- Motor pump unit for offline system;
- Filter off-line from 6 microns for the auxiliary circuit;
- Air filters from 20 µm to pre-filtering inlet air;
- Pressure filter 25 µm for pre-filtration oil flushing;
- Filter piloting control by 7 µm.

TECHNICAL DATA

Maximum flow rate for test / pulse*	**From 800cc with multiplier 1:2,1 From 400cc with multiplier 1:3,14 From 210cc with multiplier 1:6**
Pmax*	**1250 bar with multiplier 1:6**
Pmax oil supply multiplier	**28 Mpa**
Power	**90 kW**
Tmax	**125°C**
N° max test hoses	**8**
Testing conditions	**static**
Hose minimum nominal diameter	**1/4”**
Hose maximum nominal diameter	**3” (3 1/2” for low pressure hose)**
Impulse frequency	**0,1 ÷ 1,5 Hz**
N° samples min *	**12 (8) samples - diameter ≤1” 4 samples WP=560 bar - diameter 1 ¼” 3 / 4 samples WP=420 bar WP (R15) - diameter 2” 2 samples WP=350 bar - diameter 3” 2 samples WP=80 bar - diameter 3.1/2” Safety factor till 133% of W.P.**
PC + Report	**On board**
Size	**8000 x 2200 x 3800h mm**

Optional:
- Cooling oil test

* According to the different multipliers installed

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The automation of the cycle is guaranteed by the PLC and industrial PC built into the structure.Our software allows you to set various test configurations and to display the trend of the test through graphic or numeric values.

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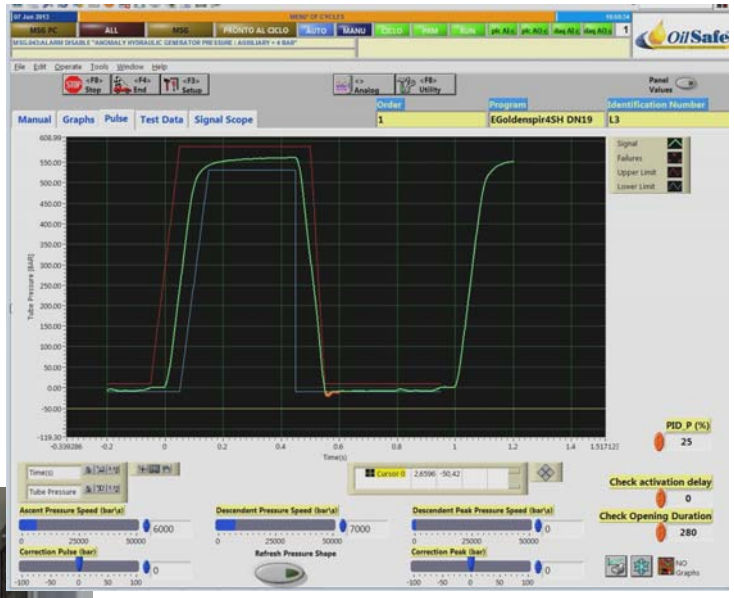
FLUIDS MONITORING & LABORATORY ANALYSIS



Viewing using the OilSafe software of the square wave during the tests

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

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