SCITEQ | dynamic pressure testing

function

The heart of the **SCITEQ dynamic pressure testing system** is a large capacity hydraulic cylinder piston which is driven by ball screw via servo drive; this provides positive closed loop control of the pressure. With this system sinusoidal and trapezoidal tests can be performed up to 1Hz cycle time!

highlights

unique features

flexible test setup

touch screen solution

high test accuracy

quality product

version 06/2010

features

- A central control panel with industrial 15" touch screen PC gives the operator access to all variable test parameters.
- There are individual cycle counts for each sample.
- The system controls and monitors test parameters and provides warnings and in appropriate cases system shut down when parameters are exceeded.
- Full data logging of the test is supplied as standard. Up to three samples can be connected at one time, which all experience the same test conditions.
- The test can be paused to add samples to the manifold. If a sample fails that individual sample will be locked from the test, the operator can choose to finish testing the rest of the samples or add a new sample and resume testing.
- The software platform is based on Microsoft XP Prof. As soon as the operator has entered a few values and which test to be performed it is ready to start a test.
- The software allows real time logging of the test and generation of test report. All data is saved in ASCII allowing it to be imported into for example Microsoft Excel.
- Individual leakage detection and testing temperature is standard when optional Heating Ovens are ordered.

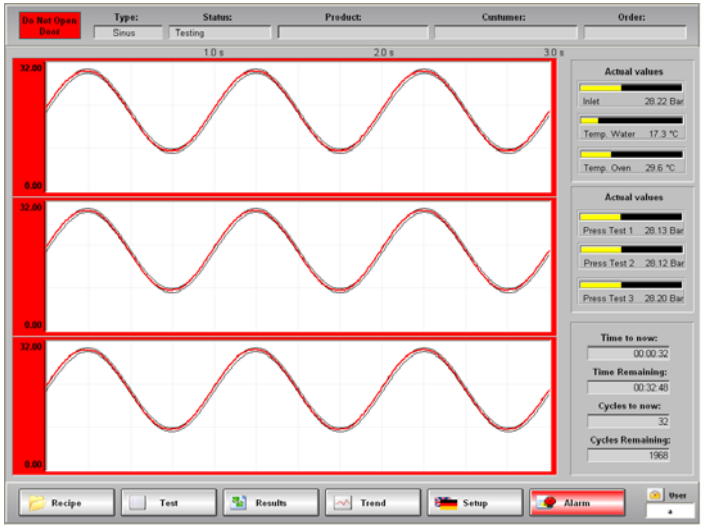
We wish to give our partners the tools to produce to the highest standard, while helping them to produce as cost-effectively as possible with Q.C. tools throughout the factory.

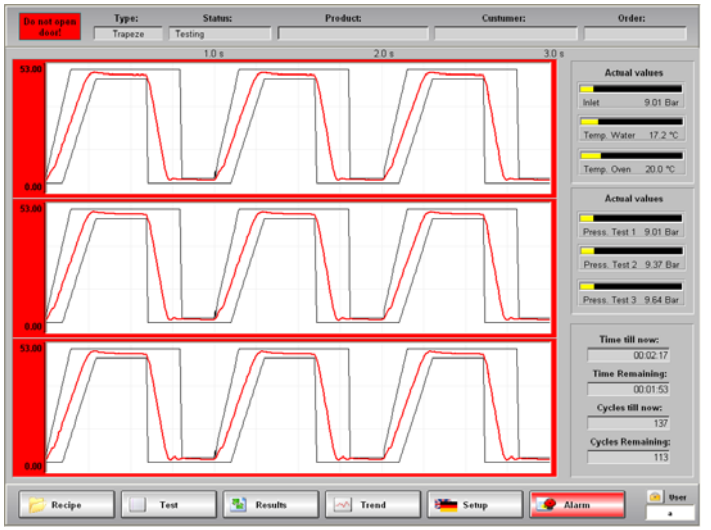
construction

The system consists of **three individual cyclic pressure systems**. One for static, one for sinus and one for trapeze pressure testing of hoses. This gives a totally flexible system that can run three different tests at the same time.

When making most cycles the most difficult task is too reduce the pressure in the sample fast enough, this piston design allows the pressure to be reduced as fast as it can be increased.

ambient temperature:	max 30°C.	
air humidity:	max 30-70%	
water supply:	normal tap supply.	
electrical supply:	400 V+N+PE 50 Hz, 16 Amp.	
weight:	approx. 400 Kg	
dimensions:	lxhxw: approximately 2000x1000x1250mm	
electrical cabinets:	according to EN 60 204-1.	
number of sample strings:	3 pieces	standard
***number of samples and I.D.:**	1 x Ø20x700mm or 3xØ8x700mm	maximum
***number of samples and I.D.:**	3 x Ø6x100 mm	minimum
sample connection:	3/4" Male ISO hose thread	
test pressure range:	0,5 up to 60 bar	+/-2%
resolution pressure:	steps of 0.01 bar	adjustable
frequency:	0.1 – 1 Hz	adjustable
test types	static, sinus and trapeze	selectable
absolute measuring accuracy of pressure transmitter:	≤0,1% accuracy with 60 bar full scale	
measuring accuracy:	typical 1% of set pressure; min. +/- 0,25 bar	
resolution data-logging:	10mS	maximum
test duration:	1-999.999 cycles	adjustable
data logging:	leakage time, test temperature & pressure, cycle elapsed, remaining cycles, test type, name and product name.	
SCITEQ control panel-PC:	industrial PC with 15" touch panel	
test standards:	DVGW Tablet 543, prEN 13618 T1+T2, HG200	





* the maximum and minimum samples specified are only examples. The maximum and minimum sample sizes may vary depending on type of material due to difference in expansion.

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