



ideas become reality

Differential Pressure / Oil filter test stand (ISO 4548-1)

The test stand is mainly used for testing the performance of hydraulic filters and filter elements according to the ISO 4548-1. The scope of the testing is to measure the differential pressure across the filter housing or filter element as a function of the volumetric flow rate and the viscosity.

The test stand is automatically controlled by a computer which saves the measured data in chronological order; the flow chart and all the test parameters can be displayed on the screen. Data handling and generation of reports according to the standard ISO 4548-1 are included.

Applicable tests

The test stand is designed as an Oil Filter Test Stand acc. to ISO 4548-1 as a part of the filter manufacturing and quality monitoring center

Following tests can be performed with this test stand:

- Differential pressure characteristics acc. to ISO 4548-1
- Flow rate ramp
- Differential pressure characteristics of bypass valve
- Opening pressure of bypass valve
- Leakage volume of bypass valve
- This test stand can be also configured and quoted according to your individual specifications.

Data sheet (Example)

Filter type:	Spin on filter and filter elements
Filter diameter:	60-180 mm
Filter height:	40-500 mm
By Pass Valve connection:	Adapter with 3 set tooling for 3 different
Pipe diameter/type:	1
Flow range:	1-12.000 l/h
Flow sensor type:	Cariotes Principe
Flow sensor size:	DN 4 and DN 25
System pressure:	0-15 bar
Tank capacity:	300 l
Hydraulic medium:	mineral to synthetic oils, e.g. SAE oils (SAE 30 ... SAE 140) or hydraulic oils (Aero Schellfluid 41)

MTPL

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