PRODUCT DATASHEET

Filter Flow Fatigue and Pressure Cycling Rig

Flow fatigue of filter elements and fatigue pressure testing of housings

Product page





Close-up: guarded test chamber with two test housings and pressure transducers

OVERVIEW

The Tech Inc. Filter Flow Fatigue and Pressure Cycling Rig proves that filter elements and housings survive the pressure and flow cycles they see in service.

TYPICAL DESIGN DATA

Test methods	ISO 3724:2007 (flow fatigue of filter elements); ISO 10771-1 (fatigue pressure testing of metal pressure-containing envelopes)
Waveform	Pressure cycles between upper and lower set values, controlled by servo or proportional valve; rate set to the volume of the part tested
Stations	One or more test stations in the guarded chamber; each with its own pressure transducer
Codes and standards	ISO 3724:2007, ISO 10771-1; CE marking
Results	Cycle count, waveform record, leak or failure detection and test report
Test fluid	Mineral hydraulic oil or the fluid you specify; temperature held by the power unit cooler and heater

MODELS AND CAPACITIES

- **TI-FFR-E** – flow fatigue of filter elements
- **TI-FFR-P** – fatigue pressure testing of housings
- **TI-FFR-C** – combined rig with both test circuits

Rigs are built to the pressures, volumes and cycle rates of the parts you test.

ORDERING CODE

Example **TI-FFR-C-2**: **C** type: E element flow fatigue, P housing pressure cycling, C combined; **2** number of test stations.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** additional test stations; temperature-controlled chamber for hot or cold cycling; burst test at the end of the cycling run.

KEY ADVANTAGES

- **Standard methods** – ISO 3724 and ISO 10771-1
- **Controlled waveform** – servo-valve control of the pressure cycle
- **Unattended running** – automatic stop on leak or failure
- **Guarded chamber** – operators kept clear of parts under test

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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