Hydropulse test systems
HP-ILR | HP0080 | HP0150 | HP0450 | HP0700 | HP1000

The HP series of hydropulse test systems are used for dynamic internal pressure pulsation of all types of hydraulic parts with defined load profiles (load curve shapes and frequency), for burst pressure testing, for tightness testing and for determining leakage rate.

The active system is equipped with the new highly dynamic iterative learning controller (IL control). In combination with sensors with plausibility checking, they ensure the highest degree of reproducibility in the test results.

Dynamic pressure testing:
- Internal pressure pulsation according to:
  - DIN/ISO and SAE standards
  - Customer-specific parameters

Static pressure testing:
- Burst pressure testing according to:
  - DIN/ISO and SAE standards
  - Customer-specific parameters

Technical specifications:
- Test stations: Single- and double-chamber systems
  - Test chamber with tempering (addl. climate control possible)
  - 0 to 100 MPa standard (up to 350 MPa on request)
  - 0.1 to 30 Hz (dependent on pulse shape/component)
  - Sinusoidal, trapezoidal (also custom shapes on request)
  - HLP oil, fully synthetic motor oil (other media on request)
  - 30 °C to 150 °C (pressure-dependent)
  - IL control/PID control, industrial PC, SImatic S7 PLC,
  - visualisation, highly dynamic recording of measurement data,
  - online evaluation and archiving of current test, output of
  - customer-specific test logs, network-compatible

Test sample adaptation:
- Flow and return flow line, test sample holder for fluid filter or
  (on customer request) single-station leak detection, single-
  station switch-off in case of leak, measuring probe for mea-
  suring component deformation

Optional extras:
- Torque wrench for documented tightening and loosening
  torque, displacement sensors for measuring deformation,
  measurement of leakage rate and expansion volume, addi-
  tional flow and return flow connections for testing components
  in external temperature chamber, touchscreen operation

CE® declaration of conformity
Our strength lies in adjusting key technical data to your specifications!