



LOW-PRESSURE IMPULSE TEST STAND
FOR GASOLINE HOSES

BLUM
NOVOTEST



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Low-pressure test stands for gasoline hoses are computer-controlled test system for performing static and dynamic tests on hoses and hose systems with test fluids from high hazard categories such as fuels. The safety concept of a test stand plays an extremely important role even during the development and design phases. Consequently, both the installation location and premises as well as the volumes of the test fluids and fresh air exchange are thoroughly researched and designed in cooperation with the subsequent user.

Pressure intensifier:

- Stainless steel housing
- Monitored with distance sensor
- Safety valves for overpressure protection
- Separation between test and drive position with nitrogen separation
- Automated compensation for expansion or contraction of the test fluid
- Servo valve and hydraulic accumulator directly flanged on
- Replaceable bearing bushes for different pressure and impulse volume ranges

Technical data

Test fluids	hazardous substances, gasoline and diesel fuels, other test fluids Vegetable-based or esther-based fuels and similar fluids
Temperature control for medium	-40 °C bis +150 °C, Gradient $\leq \pm 3$ °K/min
Temperature control for chamber	-40 °C bis +180 °C, Gradient $\leq \pm 3$ °K/min
Test types	Continuous through-flow up to 20 l/min Periodic through-flow
Pressure range	Up to 12 bar (with through-flow) Up to 50 bar (without through-flow)
Impulse volume	max. 1000 cm ³
Pressure functions	Trapezoid, sinusoid, free curve line using 20 points Frequency up to 2 Hz External target functions (approx. 10000 value pairs)

Shaker unit for movement test

Vibration profiles	Sinusoid (sweep) Noise Shock
Force vector	max. ± 21 kN
Displacement	max. ± 26 mm
Frequency range	up to 4 kHz



Pressure intensifier



Tank farm



Tanks



Disposal tank