



TESTING SOLUTIONS

GAC TEST BENCH

B_23034



B_23034 bench tests the Fuel Supply Units (GAC) for Diesel and Gasoline engines.

In particular, the bench must be of support to perform the functional tests relating to the electric fuel pump and level sensor.

As for the fuel pump, this bench has the ability to measure hydraulic performance in terms of flow rate / pressure and electrical power absorbed in terms of current / voltage.

As far as the level sensor it is possible to detect the ohmic characteristic as a function of the height assumed by the float.

The bench can work with test fluids like these:

- Sepisol®;
- Exxsol D60®;
- ISOPAR M NAPHTHA®.

Pumps (LIN or PWM) are fed, at different temperature to simulate working conditions.

It's possible to run the pump at different speed or with a speed profile.

Flow, pressure, temperature, power and speed are recorded.

By PC panel it's possible to control:

- Flow, pressure, temperature, power and speed
- Test time and test steps profile

TECHNICAL DATA:

- Pressure: 4 bar_g (max)
- Flow: 26 ± 2 lpm (max)
- Temperature: < 50 ± 2 °C (max)

INSTRUMENTATION:

- Flow meters: n° 3, DN8
0 ÷ 26 lpm; accuracy ± 0,5% f-s
- Pressure transmitters: n° 3 relatives, 0 ÷ 12 bar_g,
accuracy ± 0,1% f-s;
- Temperature transmitters: 0 ÷ 120 °C, PT100, cl. AAA
- Current sensor: 0 ÷ 40 A, ± 10 V;
- Voltage Sensor Module: ± 100 V_{in}, ± 10 V_{out};
- Ohm meter: 0 ÷ 20 Ohm
- Function generator: 0,1 ÷ 5 MHz, ± 20 ppm, 1 kΩ
- Power supply: 0 ÷ 80 V, 0 ÷ 20 A

SAFETY DEVICES:

- Inhibition of the exhaust circuit bench
- Interlock on test compartment hatch
- Mushroom emergency button
- Automatic interruption of the test in case of breakage, component leakage or malfunction of the bench;
- Maximum pressure valve
- Max temperature thermostat

SUPPLY:

- Electric: 400 Vac - 50 Hz – 13 kW
- Fluid: 100 l (tank)

DIMENSIONS AND WEIGHT:

- L, p, h: 1200 x 1033 x 2005 mm;
- Total raw load: ~400 + 110 kg

COLOR:

- Standard: Gray RAL7035.

NOTE:

- Customization on demand



The test stand is equipped with a PC and NI data acquisition system. PC software can set the test profile and can create a complete test report.

The test bench meets Industry 4.0 requirements.

Via internet connection it allows you to:

- obtain informations about test bench and carry out control and management operations;
- use the BAVA remote assistance service;
- any kind of remote control.

GUI can be shown in different languages