



TESTING SOLUTIONS

FEED & SCAVENGE PUMP TEST BENCH

B_21086



Bench designed for testing delivery and recovery pumps or combined engine oil circuit.

The bench allows to carry out running-in operations, performance characterization, efficiency and drainage measurement, verification and calibration of 'trim' and 'relief' valves, with operational simulations of the flight altitude from 'sea level' to maximum tangency.

All operations are supervised by the control console, which also incorporates the DAS data acquisition system and test report recording

TECHNICAL DATA:

- Fluid: olio MIL L 23699
- Temperature: $30 \div 120$ °C
- Inlet & recovery lines: 7, 2
- Well lines oil flow (2): $1,8 \div 94$ l/min
- Well lines oil flow (5): $1,1 \div 56$ l/min
- Aux line oil flow: $1,1 \div 56$ l/min
- Main line oil flow: $3,7 \div 227$ l/min
- Well oil flow: 300 l/min (max)
- Oil feed pressure: $50 \div 3500$ kPa
- Oil recovery pressure: $100 \div 500$ kPa
- Air pressure: $50 \div 600$ kPa

INSTRUMENTATION:

- Flow: $1,8 \div 94$ lpm, accuracy $\pm 0,05\%$, repeatability $\pm 0,05\%$
- Pressure: $0 \div 1500$ kPa; accuracy $\pm 0,05\%$
- Temperature: < 120 °C, tCK, cl. 2

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
- Thermostat of maximum temperature

SUPPLIES:

- Electric: 400 Vac - 50 Hz - 60 kW
- Compressed air: 6 bar
- Water: 3,5 bar

DIMENSIONS AND WEIGHT:

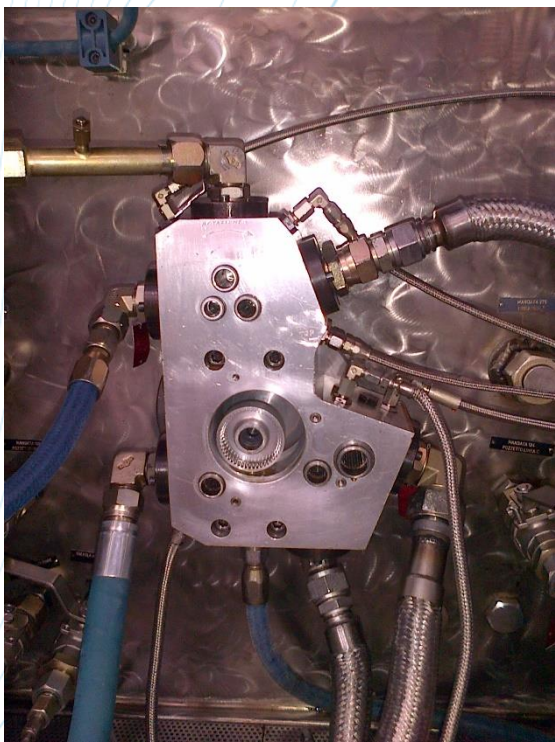
- L, p, h: 5000 x 5000 x 3000 mm
- Raw weight: ~ 2500 kg.

COLOR:

- Standard: White RAL 9010.

OPTIONS:

- Oil heating thermoregulator (18kW)
- Refreshing chiller
- Oil vapor filter



The test bench meets the requirements of Industry 4.0, (equipped with Wi-Fi card, allows connection to the company network / internet) and allows you to:

- Interface with a third-party software in order to obtain information on the status of the bank and carry out control and management operations;
- take advantage of the remote assistance service by BAVA technicians;
- remote control of the bench compatible with the permissions of the corporate network.

GUI can be set in multiple languages



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