



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

INSTRUMENTATION:

• Flow:	1,8 ÷ 94 lpm; accuracy ± 0,05%, repeatability ± 0,05%
• Pressure:	0 ÷ 1500 kPa; accuracy ± 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.
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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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