Fuel system maintenance

Fuel Injector Test Rig

OBEL-P

VPA 1100-6

For test of fuel injectors for all 2-stroke and 4-stroke engines, including fuel injectors with slide valves. Installed in more than 50 major workshops globally, incl. MAN, Wärtsilä, MaK and Caterpillar facilities.









Application areas

- 2-stroke engines
- 4-stroke engines

Key benefits

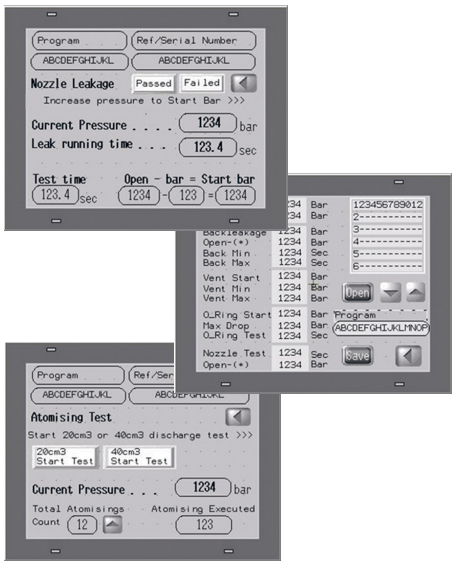
- PLC-controlled test device
- Touch panel for easy and fast operation
- Pre-set required values depending on engine type
- Built-in Printer
- Test reports stored in permanent memory or transferred to PC via USB
- Fully automated test procedures to prevent damage of costly injectors
- Air powered for fast and precise performance of test unit
- Engine specific adapters for fast set up time
- Valve holders for 150+ different injectors (optional)

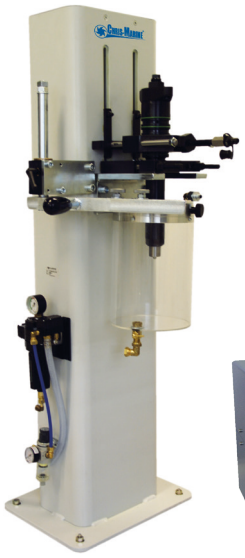
Sustainable engine operation

Regular testing of fuel injector valves is extremely important. Testing helps to reduce emissions, fuel consumption and engine fouling. It saves time and money and means reducing downtime while saving resources. Proper engine care prolongs engine lifetime and is a much more environmentally friendly alternative than replacing liners. It is also more cost-efficient as it means reducing downtime while saving resources.

PLC System

- Full documentation of test results
- Keep history log of each unique injector
- Enclose documents for customers
- Max. and min. values to determine whether an injector passed or failed a test





UVH



MPT

Optional Accessories

UVH - Universal valve holder incl. oil mist separator and universal connectors for all common 4-stroke injectors

MPT - Multi-purpose Trigger unit for activation of electronic fuel injectors

Technical specifications

• For MAN slide valves	Yes
• Suitable for all kind of 2-stroke engines	Yes (except for RT- Flex injectors with spiral groove on the needle)
• Suitable for all kind of 4-stroke engines	Yes
• Test procedure	– Opening pressure test – Back leakage time – Atomizing test – O-ring seal test – Venting function – Test passed or not
• Pressure (bar) Output @ Input	0-1100@10 0-800@7
• Air consumption *depending on output pressure*	2000 l/min
• Pneumatic inlet	1/2" BSP claw clutch female
• Hydraulic outlet	1/4" BSP male coupling
• Weight	200 kg
• Dimensions (LxWxH)	930 x 540 x 1480 mm
• Electric power supply	1-phase 208-230 V AC, 50-60 Hz

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