Fuel system maintenance

Fuel Injector Test Rig

OBEL-P

VPUD

Fuel valve test unit with digital read-out for test of fuel injectors for 2-stroke and 4-stroke engines.

Product features

- VPUD1100 SV for testing slide valve fuel injectors
  A slide-valve protection system is included
- VPUD 1100 for testing of traditional valves
- Available in version MKI and MKII depending on engine type
- Step-by-step test procedure to guide the operator

Optional:
- Valve holders for 150+ different injectors

Innovative engineering since 1962
Optional: Test fluid
Test fluid based on a mineral oil designed to meet the requirements of high tolerance fuel injectors. Preserves the fuel injectors, so no cleaning is needed after test procedure. Approved for testing of both 2-stroke and 4-stroke fuel injectors. Protects core parts of pump unit and extends the lifetime of the test rig.

Optional: Oil mist separator
Oil mist separator, for environmental purposes. And better visual inspection of nozzle spray.

**Technical specifications**

<table>
<thead>
<tr>
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<th>VPUD 1100</th>
<th>VPUD 1000</th>
<th>VPUD 1100 SV</th>
</tr>
</thead>
<tbody>
<tr>
<td>For MAN slide valves</td>
<td>NO, valve can be damaged</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>PPMI 1000 is used, can then be used for MAN slide valves</td>
<td>YES</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Suitable for engines</td>
<td>Wärtsilä RND, RTA 48-96 MAN 4-stroke</td>
<td>MAN 2-stroke injectors incl. slide fuel valves excl. gas injectors</td>
<td>Conventional 4-stroke and 2-stroke injectors incl. MAN slide fuel valves</td>
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</tbody>
</table>
| Test procedure | – Injector prefill
– Opening pressure test
– Nozzle leakage test
– Manual operation (for test of 4-stroke engines) | – Injector prefill
– Opening pressure test
– Nozzle leakage test
– O-ring sealing test
– Venting /Non-return valve test | – Injector prefill
– Opening pressure test
– Nozzle leakage test
– Venting /Non-return valve test
– O-ring sealing test
– Manual operation (for test of 4-stroke engines) |
| Pressure (bar)
Output@Input | 0-1100@10, 0-800@7 | 0-1100@10, 0-800@7 | 0-1100@10, 0-800@7 |
| Air consumption (l/min)
Depending on output pressure | 2500-4000 | 2500-4000 | 2500-4000 |
| Hydraulic gauge | Class 1.0 | Class 1.0 | Class 1.0 |
| Display | Class 0.2 | Class 0.2 | Class 0.2 |
| Pneumatic inlet | 1/2” BSP claw clutch female | 1/2” BSP claw clutch female | 1/2” BSP claw clutch female |
| Hydraulic Outlet | 1/4” BSP male coupling | 1/4” BSP male coupling | 1/4” BSP male coupling |
| Weight (kg) | 90 | 90 | 90 |
| Dimension (LxWxH mm) | 560 x 950 x 1525 | 560 x 950 x 1525 | 560 x 950 x 1525 |
| Electric Power supply | 1-phase 115/230 V AC | 1-phase 115/230 V AC | 1-phase 115/230 V AC |

Contact one of our offices to get in touch with your local agent.

www.chris-marine.com