## Fuel system maintenance

# Fuel Valve Test Rig

OBEL-P®

# VPU 500F

For testing of fast fuel injectors for Wärtsilä RT flex engines.









**Application area**

- 2-stroke engines

**Key benefits**

- Pneumatic/haudraulic test rig with an oil flow up to 7.5 l/min
- Scalable pump technology developed for correct testing of Wärtsilä RT Flex/W-X FAST fuel injectors
- Gauges for air and oil pressure
- Hydraulic disassembly/reassembly tool support
- Optional safety valve test adapters
- Test of auxiliary engine fuel injectors with optional adapters

OBEL-P

# VPU 500F



Approved and recommended by Wärtsilä Switzerland Ltd.



WÄRTSILÄ

CERTIFICATE OF APPROVAL

This is to certify that

IOP MARINE A/S
OBEL-P-PRODUCTS
ENGAGER 7
DK-2605 BRONDBY
www.obel-p.com

is approved and recommended by WÄRTSILÄ Switzerland for the manufacture and supply of

Fuel Valve Test Unit Type VPU 500

for Wärtsilä two-stroke diesel engines RT-flex Type

Tool Design & Development 2 stroke Product Manager

M. Friet

Tool Design & Development 2 stroke Design Manager

P. Lienhard

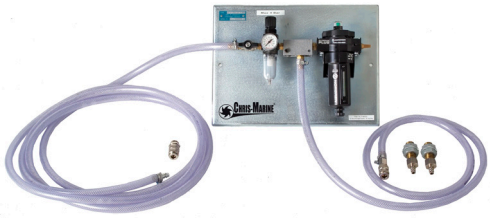
Winterthur 2006-09-19

## Optional accessories




### Test fluid

Mineral based test fluid designed to meet the requirements of high tolerance fuel injectors. Approved for testing of both 2- and 4-stroke fuel injectors.




### Oil Mist Separator

For improving the working environment as well as the visual inspection of the fuel injector spray. Oil mist is extraced from the plastic container and condesed in the filter.

| Technical specifications | |
|---|---|
| • Hydraulic output pressure | 0-600 bar @ 8 bar air<br>0-500 bar @ 7 bar air |
| • Hydraulic flow | >7.5 l/cycle @ 7 bar input, 0 bar output pressure<br>>5 l/cycle @ 7 bar air input, 420 bar output pressure |
| • Drive medium | Air |
| • Drive pressure at VPU inlet | Minimum 7 bar<br>Maximum 10 bar |
| • Drive medium volume flow at at 1 bar | 3.300 l/min<br>Connect with min 3/4" hose to 7 bar air system |
| • Number of pumps | 6 x IOP A600-2 pump units |
| • Maximum cycle frequency | 520 cycles/min @ 7 bar air input and no output pressure |
| • Actual discharge per pump per cycle | 6 $cm^3$ |
| • Tank capacity | 20 l |
| • Gauges | Class 1.0 |
| • Weight | 140 kg empty (excluding injector valve holder) |
| • Dimensions (WxDxH) | 1000 x 850 x 1460 mm |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