

Fuel Valve Test Rig

OBEL-P®
VPU 900 CAT

For on-site troubleshooting
of electronic Caterpillar unit
injectors.



Product features

- Small test rig comprised of two systems
 - Pneumatic-hydraulic system:
 - Test of nozzle spray pattern
 - Verification of nozzle tightness engines
 - Pneumatic-electronic system
 - Test of solenoid coil
 - Test of solenoid activation
- Easy to evaluate the condition of injector and control system
- Verification procedure can be completed in less than 30 minutes per unit injector

Unit injector disassembled

Caterpillar unit injector pump and injector elements after separation.



Test adapters

Disassemble injector and use supplied adapters to test injector part and electric part.



Unit injector - pump

With fuel pump connection piece ready for testing.



Unit injector with connection piece

With Injector part mounted ready for testing.



Optional

Test fluid based on a mineral oil designed to meet the requirements of high tolerance fuel injectors. Preserves the fuel injectors, no cleaning is needed after test procedure. Protects core parts of pump unit and extends the lifetime of the test rig.

Technical specifications

• Suitable for engines	Caterpillar 3500/3600 w. electronically controlled unit injectors
• Weight	12.2 kg without valve holder 17 kg with valve holder
• Dimensions	450 x 250 x 370 mm
Fuel Injector testing specifications	
• Pressure	900 bar output @ 8 bar input, 675 bar output @ 5.5 bar input
• Air consumption (l/min)	375 l/min @ 6 bar input
• Flow (l/min)	0,45 l/min @ 6 bar air input
• Hydraulic gauge	Class 1.0
• Pneumatic inlet	1/8" Ø8
• Hydraulic outlet	CEJN116 female coupling for CAT connection piece
Solenoid testing specifications	
• Power supply	230 VAC 50/60 Hz (115 VAC on request)
• Power consumption	115 VA
• Output voltage	24 VDC
• Output current	6 A pull current 4 A Hoild current (default)

**Chris-Marine
 Headquarters
 and Subsidiaries**

**CHRIS-MARINE SWEDEN
 HEADQUARTERS**
 Tel: +46 - 40 671 2600
 info@chris-marine.com

CHRIS-MARINE DENMARK
 Tel: +45 - 4498 3833
 iop@chris-marine.com

CHRIS-MARINE GERMANY
 Tel: +49 4101 5880 0
 lemagg@chris-marine.com

CHRIS-MARINE SINGAPORE
 Tel: +65 - 6268 8611
 chrism@chris-marine.com.sg

CHRIS-MARINE CHINA
 Tel: +86 - 21 6575 9331
 info.cn@chris-marine.com

CHRIS-MARINE JAPAN
 Tel: +81 - 78 570 5642
 info.jp@chris-marine.com

CHRIS-MARINE INDIA
 Tel: +91 - 712 224 2719
 info.in@chris-marine.com

CHRIS-MARINE ECUADOR
 Tel: +593 979 000 379
 info.ec@chris-marine.com

CHRIS-MARINE USA
 Tel: +1 786 212 9592
 info.us@chris-marine.com

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