

Manufacturers of Diesel Fuel Injection Test Equipment and Suppliers of Spare Parts

MERLIN DIESEL SYSTEMS LTD Bradkirk Place, Walton Summit Centre Preston, Lancashire PR5 8AJ, England

Tel: +44 (0) 1772 694180 Fax: +44 (0) 1772 314565 E: equip@merlindiesel.com W: www.merlindiesel.com

# **TEST EQUIPMENT DIVISION**

**Injector Testers** 

#### **Automotive Injector Testers**



S400 Manual operation, 700 Bar. Left or right hand operation with digital seconds timer.



#### S400-5

Manual operation, 700 bar. Left or right hand operation with built-in S500-1 opening pressure monitor and printer.

**Portable Injector Tester** 



S31 Portable 400 bar injector tester with spray arrester.



S400A Air operated, 700 bar. With built-in \$500-1 opening pressure monitor and printer.

### **Marine Injector Testers**



S450-1

Air operated, heavy-duty injector tester with S500-1 opening pressure monitor and printer.

S450-1 CR (see MDS-TE 790/2/0810) As above but with capability to test marine common rail injectors.



S425A Air operated, 700bar. With built-in S500-1. For testing 2-spring and conventional injectors.



S100A Mobile test unit suitable for checking the correct operation of B & W two-stage injectors

BOSCH



Opening pressure monitor and printer. 700 bar transducer, includes conversion kit for existing injector tester.



Common rail injector test system for Bosch, Delphi, Denso and Siemens injectors. (Also suitable for some marine applications)

S31 M Marine injector tester ,700 bar.

YANMAR

S300-1





QUICK ACTION TEST PIPES & ADAPTORS Various sizes available, details overleaf.

S400-M, S400-5-M, S400A-M, S425A-M. Marine/industrial versions of S400 series are available with 'V' blocks and 22mm threaded outlet, details overleaf.



DATA REF: MDS-TE 017/1110

VDO Monark<sup>®</sup>







The Merlin range of injector testers offer either hand lever or air operated options for the testing and setting of automotive and marine injectors before and after reconditioning.

The operator is able to accurately control fuel flow and pressure in order to perform all tests as detailed in ISO 8984-2, which are particle approximately control fuel flow and pressure and hadd leaders.

which are nozzle opening pressure, chatter (atomization), spray pattern, seat leakage and back leakage.

The S500-2 opening pressure and back leakage time monitor has been designed for accurate performance testing, production line testing and quality over checking.

#### **OPTIONAL EQUIPMENT**

T022-001	Quick action test pipe with M14x1.5 hand-wheel
	and T022-003 split adaptor (M12x1.5)
D8727	Vee Clamp assembly.
SDS400	Perspex spray deflector.
CAB400	Cabinet for S400 range.
S300	Common rail test system.

## ADDITIONAL SPLIT ADAPTORS FOR T022-001

 T022-003
 M12x1.5 (A Size)

 T022-004
 M18x1.5 (T Size)

 T022-005
 M16x1.5

 T022-006
 ¼" BSP (Gardner Injectors)

 T022-007
 9/16" UNF x 18 TPI

 T022-008
 5/8" UNF x 18 TPI

 T022-009
 M14x1.5 (long reach)

	S400(M)	S4005(M)	S400A(M)	S425A(M)	S450-1	S31	S31M
Operation:							
Manual, left or right.	Х	х				Х	Х
Air pump(s).			Х	x (2)	Х		
Analogue gauge (400bar)						Х	
Analogue gauge (700bar)	Х				Х		х
S500-1 & printer (700bar)		х	Х	Х	Х		
Gauge isolator valve.	Х				Х	Х	Х
Trapped volume device.	Х	х	Х	Х	Х	Х	Х
Flow control valve.	Х	х	Х	x (2)	Х		
Digital seconds timer.	Х						
Fume extraction:							
Variable air operated.	Х	х	Х	Х	Х		
Tank capacity (ltrs).	13	13	13	15	100	1	1
Sight level gauge.	Х	х	Х	Х	Х		
14x1.5M outlet thread.	Х	х	Х	Х		Х	
22x1.5M outlet thread.	x (M)	x (M)	x (M)	x (M)	Х		Х
Marine V blocks.	x (M)	x (M)	x (M)	x (M)			
Dimensions LxWxH (cm):							
62 x 77 x 55	Х	х					
62 x 77 x 77			Х				
71 x 77 x 77				Х			
160 x 85 x 136					х		
46 x 26 x 28						Х	
92 x 46 x 31							Х
Weight (kg):	60	55	65	80	250	9	28

#### S500-2

•	psi, MPa or kgf/cm²,	Memory:-		
Timer range:-	0 - 99.9 sec	onds.	Display:-	
Accuracy:-	Pressure:	±1 bar.		
	Time:	±1 second.		
	Transducer:	±0.1% of full value.		
	Linearity:	±1 bar over full range.	Printer:-	

Data store/recall for injector test plans. Tick/cross symbols advise user of NOP and back-leak pass/fail. Compensation for variations in test oil types and temperature. Thermal image printer.

Standard electrical specifications: 240v, 1ph, 50Hz, 110v, 1ph, 60Hz. Other supplies available. Please contact our office for further details.

