

**BOSCH-INJ.-PUMP TEST SPECIFICATIONS**

Note inst. in remarks column

Test sheet : FIA  
 Edition : 16.06.92  
 replaces : 11.05.89  
 Calibrating oil : ISO-4113

Injection pump : VE4/9F2100R303-1  
 Type number : D 460 494 250

Customer-specific information  
 Customer : FIAT-AUTO

Engine : M710 CT 19.0 PRISMA

**TEST BENCH REQUIREMENTS**

Overflow restricti: 1 463 456 343

Calibrating-oil  
 return temp. °C  
 with thermometer : 40...48  
 Electronically : 42...50

Inlet press., bar : 0.35

Calibrating nozzle-holder  
 assembly : 1 688 901 022

Opening  
 Pressure bar: 130...133

Test inj. tubing : 1 680 750 073

Outside diameter : 6.00  
 x Wall thickness : 2.00  
 x Length mm: 450

Injection-pump setting values  
 Test specifications in parentheses

**Timing-device travel**

Speed 1/min: 1500  
 Charge press. hPa: 1000  
 Setting value mm: 6.00...6.40  
 AFB/AFB  
 valve Volt: 12  
 Shutoff  
 electromagnet Volt: 12

**Supply-pump pressure**

Speed 1/min: 1500  
 Charge press hPa: 1000  
 Setting value bar: 5.60...6.20

K21

KSB/AFB  
 valve Volt: 12  
 Shutoff  
 electromagnet Volt: 12

**Full-load del. with charge press.:**

Speed 1/min: 1500  
 Charge press. hPa: 1000  
 Del. quantity cm<sup>3</sup>/  
 1000S.: 53.00...54.00

KSB/AFB  
 valve Volt: 12  
 Shutoff  
 electromagnet Volt: 12  
 Dispersion cm<sup>3</sup>/: 2.5  
 1000S.: (2.5)

**Full-load del. w/out charge press.:**

Speed 1/min: 600  
 Del. quantity cm<sup>3</sup>/  
 1000S.: 41.00...42.00

KSB/AFB  
 valve Volt: 12  
 Shutoff  
 electromagnet Volt: 12

**Low-idle speed regulation**

Speed 1/min: 450  
 Del. quantity cm<sup>3</sup>/  
 1000S.: 11.00...15.00

KSB/AFB  
 valve Volt: 12  
 Shutoff  
 electromagnet Volt: 12  
 Del. quantity cm<sup>3</sup>/: 2.5  
 1000S.: (2.5)

**Residual-Delivery Setting**

Speed 1/min: 700  
 Del. quantity cm<sup>3</sup>/  
 1000S.: 4.00...6.00

KSB/AFB  
 valve Volt: 12  
 Shutoff  
 electromagnet Volt: 12

**Full-load speed regulation**

Speed 1/min: 2300  
 Charge press hPa: 1000  
 Del. quantity cm<sup>3</sup>/  
 1000S.: 32.00...38.00

KSB/AFB  
 valve Volt: 12  
 Shutoff  
 electromagnet Volt: 12