

BOSCH-INJ.-PUMP TEST SPECIFICATIONS

Note inst. in remarks column

Test sheet : VWV
Edition : 03.06.92
replaces : 22.08.89
Calibrating oil : ISO-4113

Injection pump : VE4/9F2400R138
Type number : 0 460 494 131
Customer Part-No. :

Customer-specific information
Customer : VW

Engine : 086-1.6l (SG)

TEST BENCH REQUIREMENTS

Overflow restricti: 1 463 456 303

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

Inlet press., bar : 0.35

Calibrating nozzle-holder
assembly : 1 688 901 000

Opening
Pressure bar: 147.00...150.00

Test inj. tubing : 1 680 750 017

Outside diameter : 6.00
x Wall thickness : 2.00
x Length mm: 840

Injection-pump setting values
Test specifications in parentheses

Timing-device travel

Speed 1/min: 1500
Setting value mm: 2.90...3.30
Shutoff
electromagnet Volt: 12

Supply-pump pressure

Speed 1/min: 1500
Setting value bar: 4.60...5.20
Shutoff
electromagnet Volt: 12

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Full-load del. with charge press.:

Speed 1/min: 1500
Del. quantity cm³/
1000S.: 31.70...32.70
Shutoff
electromagnet Volt: 12
Dispersion cm³/
1000S.: (3.0)

Low-idle speed regulation

Speed 1/min: 475
Del. quantity cm³/
1000S.: 6.00...10.00
Shutoff
electromagnet Volt: 12
Del. quantity cm³/
1000S.: (3.0)

Full-load speed regulation

Speed 1/min: 2600
Del. quantity cm³/
1000S.: 12.00...16.00
Shutoff
electromagnet Volt: 12

Start:

Speed 1/min: 100
Del. quantity cm³/
mind 1000S.: 35.00
Shutoff
electromagnet Volt: 12

Inspection-pump test specifications Test specifications in parentheses

Timing-device characteristic:

2nd speed 1/min: 2400
TD travel mm: 6.10...6.90
mm: (5.80...7.20)

Shutoff
electromagnet Volt: 12
3rd speed 1/min: 1500
TD travel mm: 2.90...3.30
mm: (2.40...3.80)

Shutoff
electromagnet Volt: 12
4th speed 1/min: 1000
TD travel mm: 1.30...2.10
mm: (1.00...2.40)

Shutoff
electromagnet Volt: 12

Supply-pump pressure characteristic: