

BOSCH-INJ.-PUMP TEST SPECIFICATIONS

Note inst. in remarks column

Test sheet : REN 2,0 E
Edition : 18.01.89
replaces : 02.04.87
Calibrating oil : ISO 4113
Injection pump : VE 4/ 9F2400 R95
Type number : 0 460 494 105

Customer-specific information
Customer : RENAULT

Engine : F & M

TEST BENCH REQUIREMENTS

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
x Wall thickness : 2
x Length mm : 450

Start of delivery
Prestroke mm : -
(from BDC): -

Injection-pump setting values
Test specifications in parentheses

Timing-device travel:

Speed 1/min: 1400
Setting value mm: 4,1...4,5
KSB solenoid-operated
valve volt: 12,0

Supply-pump pressure:

Speed 1/min: 1400
Setting value bar: 4,9...5,5

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KSB solenoid-operated
valve volt: 12,0

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

Speed 1/min : 1000
Del.quantity cm3/
1000H.: 28,5...29,5

KSB solenoid-operated
valve volt: 12,0
Dispersion cm3/: 2,5
1000H.: -

Low-idle speed regulation:

Speed 1/min: 425
Del.quantity cm3/
1000H.: 6,0...10,0

KSB solenoid-operated
valve volt: 12,0
Dispersion cm3/: 2,0
1000H.: -

Full-load speed regulation:

Speed 1/min: 2550
Del.quantity cm3/
1000H.: 21,0...29,0

KSB solenoid-operated
valve volt: 12,0

Start:

Speed 1/min: 100
Del.quantity : -
mind cm3/1000H.: 12,0

Load-dependent start of delivery:

Speed 1/min: 1400

Inspection-pump test specifications
Test specifications in parentheses

Timing-device characteristic:

1st speed 1/min: 600
TD travel mm: 0,7...1,5
mm: (0,4...1,8)

KSB solenoid-operated
valve volt: 12,0
2nd speed 1/min: 1000
TD travel mm: 2,3...3,1
mm: (2,0...3,4)

KSB solenoid-operated
valve volt: 12,0
3rd speed 1/min: 1400
TD travel mm: 4,1...4,5
mm: (3,6...5,0)