

BOSCH-INJ.-PUMP TEST SPECIFICATIONS

Note inst. in remarks column

Test sheet : FIA
Edition : 13.11.96
replaces : -
Calibrating oil : ISO 4113

Injection pump : VE4/10F2100R675
Type number : 0 460 404 085
Customer Part-No. :

Customer-specific information
Customer : IVECO-SOFIM

Engine : 8140.67.3700

TEST BENCH REQUIREMENTS

Overflow restricti: 1 463 456 303

Calibrating-oil
return>temp. > °C
with>thermometer> : 40.00...48.00
Electronically> : 42.00...50.00

Inlet press., bar : 0.30...0.40

Calibrating nozzle-holder
assembly> : 1 688 901 022

Opening
Pressure> bar: 127.00...133.00

Test inj. tubing : 1 680 750 073

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

Start of delivery
Prestroke mm: 0.2
> (from BDC): ±0.02(0.04)

Injection-pump setting values
Test specifications in parentheses

Timing-device travel

Speed 1/min: 1250
Setting value mm: 2.60...2.80
Shutoff
electromagnet>Volt: 12

Supply-pump pressure

Speed 1/min: 1250
Setting value bar: 5.50...6.10
Shutoff
electromagnet>Volt: 12

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

Speed 1/min: 1500
Del. quantity cm³/
> 1000s.: 43.0...44.0
Shutoff
electromagnet>Volt: 12
Dispersion cm³/: 3.0
> 1000s.: (3.0)

Low-idle speed regulation

Speed 1/min: 375
Del. quantity cm³/
> 1000s.: 13.0...17.00
Shutoff
electromagnet>Volt: 12
Del. quantity cm³/: 3.0
> 1000s.: (3.0)

Full-load speed regulation

Speed 1/min: 2300
Del. quantity cm³/
> 1000s.: 30.0...34.0
Shutoff
electromagnet>Volt: 12

Start:

Speed 1/min: 100
Del. quantity cm³/: 60.0...100.0
mind> 1000s.: 60.0
Shutoff
electromagnet>Volt: 12

Load-dependent start of delivery:
Inj.-qty.dif.measurement:

Speed 1/min: 1250
Inj.-qty. cm³/
difference> 1000s.: - 9.0...11.0 *
Shutoff
electromagnet>Volt: 12
SP press.-dif.measurement

1st speed 1/min: 1250
Supply pump
pressure>
difference> bar: - 0.1...0.3 *
Shutoff
electromagnet Volt: 12

Inspection-pump test specifications
Test specifications in parentheses