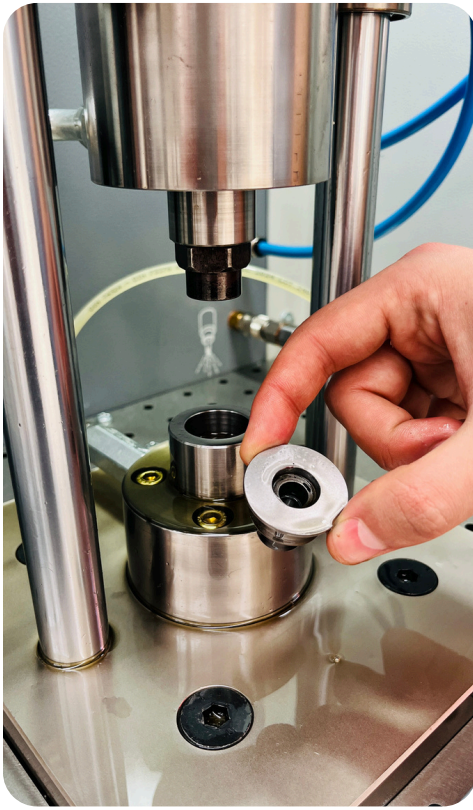


# NV2001

Free Flow Test Bench for  
Common Rail, Unit, and  
HEUI Diesel Injector  
Nozzles and Valves



## Purpose of the Product

The NV2001 evaluates the free-flow performance of diesel injector nozzle and valve components by testing them individually.

The test measures the amount of fuel (in  $\text{cm}^3/\text{min}$ ) that passes through under a defined pressure and time period.

## Advantages for the User

- Enables quick identification of faulty components with a precision measurement system.
- If the nozzle and valve are in good condition, the overall injector testing time is significantly reduced.
- Ensures accuracy and saves time during the injector remanufacturing process.

## 01

### TARGET USERS

- Technical service workshops providing diesel injector and pump maintenance/repair services
- Companies specializing in second-hand diesel injector remanufacturing

## 02

### TECHNICAL FEATURES

- Durable, aesthetic, and ergonomic design (2 mm sheet metal body)
- Safe test cabin with transparent cover
- Integrated pneumatic, hydraulic, electric, and electronic systems
- All test operations are managed through user-friendly software

## 03

### TEST OPERATION PROCESS

- The nozzle or valve to be tested is mounted with the appropriate adapter
- Test begins automatically when the cover is closed
- Pneumatic system ensures sealing
- Fuel is supplied at the specified pressure to measure free flow
- Test results are displayed digitally on screen
- Positive results are shown in a green band
- Reference values for each component are stored in the software database
- Average test time (including mounting and dismounting): 90 seconds

## 04

### DATABASE INTEGRATION

Creating test plans for injector nozzles and valves not listed in the application's database is very simple. Five default test plans are created using samples from new and original valve/nozzle sets. Each is tested five times, generating 25 results. A  $\pm 3\%$  tolerance is determined based on the average value, which is then defined as the green band range in the system. Thanks to the advanced software infrastructure, these values can be easily added to the database.

## 05

### ADAPTER OPTIONS

- Suitable adapters are available for all types of injectors and valves
- Shared adapters can be used for parts with similar dimensions
- Three standard adapters are included with the device
- Additional adapters are offered optionally and sold separately.

## 06

### BENCH DIMENSIONS

Width: 94 cm      Height: 156 cm      Depth: 68 cm