

EXPERIMENTAL EQUIPMENT

PJ60 Nozzle Tester

Safety precaution Being operated,the nozzle tester must be far away from flame or high temperature place.Such as welding and so on. Purpose of the nozzle tester It is used to adjust and calibrate the injecting ...

ISO9001 Supplier

Class Certificate

Export Supply



Key Highlights

Category	Experimental Equipment
Standard	DIN
Weight / Size	Type Pressure gage range (Mpa.) Overall dimensions L×W×H (mm) Capacity o...
Certificate	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS
We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.	

Technical Specifications

Category	Experimental Equipment	Model / SKU	PJ60-Nozzle-Tester
Standard	DIN	Weight / Size	Type Pressure gage range (Mpa.) Overall dimensions L×W×H (mm) Capacity of fuel tank (L) Largest pressure tested (Mpa.) Net weight (Kg) 1 PJ60 0 ~40 310×340×50 1.0 60 16 Performance of the nozzle tester Block the joint where the nozzle is connected.Pump oil to a pressure over 30Mpa.Then mop pump and watch the pressure descending from 30 Mpa.It is less than 2 Mpa within 3 minutes.
Surface	painted	Certificate	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS
Warranty	12 Months unless specified otherwise	Origin	China

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Safety precaution

Being operated, the nozzle tester must be far away from flame or high temperature place. Such as welding and so on.

Purpose of the nozzle tester

It is used to adjust and calibrate the injecting pressure, atomizing quality, injecting angle and needle valve seats of diesel engine in order to ensure excellent power and economic performance of diesel engine.

Main technical parameter of the nozzle tester

No.	Type	Pressure gauge range (Mpa.)	Overall dimensions L×W×H (mm)	Capacity of fuel tank (L)	Largest pressure tested (Mpa.)	Net weight (Kg)
1	PJ60	0 ~40	310×340×50	1.0	60	16

Performance of the nozzle tester

Block the joint where the nozzle is connected. Pump oil to a pressure over 30Mpa. Then stop pump and watch the pressure descending from 30 Mpa. It is less than 2 Mpa within 3 minutes.

Operation and adjustment of the nozzle tester

1. Fix the tester on stable work-table by using four bolts of the base-plate.
2. Working environment must be clean, so must operator's hands and clothes must be clean. No operating out of the room is allowed.
3. Precipitate light -10 diesel over hours. Filter it through strainer. Then put the filtered diesel into tank. Don't put into it with unqualified diesel.
4. Testing of injection pressure of injector assembly
Turn the injector assembly tested onto the nozzle joint tightly with high pressure pipe then do the experiment and adjustment of pumping fuel. When pumping fuel, watch the reading on the pressure gauge at the same time, compare it with the specified pressure range of the injector assembly to see if it is normal. If the pressure is too high or too low, adjust the pressure spring of injector assembly.
5. Adjustment injecting angle.
Test the injecting angle ensure the injecting pressure is adjusted. Put a piece of white paper or a piece of iron-wire net painted with grease under the nozzle in the distance H.

Repeat to pump fuel until you can see clearly a fuel circle or an empty circle in the iron-wire net. Measure height of "H" from the mouth to the net (paper) and diameter of outer circle. Injecting angle may be calculated according to the following formula:

$$\tan \alpha/2 = D/2H$$

6. Experiment of Atomizing Quality

Watch the atomizing quality of fuel injecting. The fuel grain should be tiny, well distributed. No fuel current (or drop) seen with eye. No obvious fuel stain appears if it is injected on the oil absorbing paper. Color of fuel stain from center to outer

circle should become lighter and form a well distributed circle. Pumping fuel should be quick. There is no fuel drop or fuel dropping after pumping fuel. Atomizing should be correct. Its taper angle should be within specified range.

Maintenance of the nozzle tester

1. Calibrating fuel must be good quality light diesel deposited over 48 hours.
2. When filling fuel, filter it with silk-cloth. Do not fill tank with unfiltered diesel.
3. Cover the tester with anti-dust cover after testing.