EXPERIMENTAL EQUIPMENT

PS400A Nozzle Tester

ISO9001 Supplier

Class Certificate

Export Supply

I. Safety precaution Being operated, theNozzle Tester(INJECTOR CALIBRATOR) must be far away from flame or high temperature place.Such as welding and so on. II. Purpose of the Nozzle Tester: It is...



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**	PS400A-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 PS-400A 0 ~40 160×100×380 1.0 40 6 Ⅳ.Performance of the Nozzle Tester Block the joint where the nozzle is connected.
Surface	painted	**Certificate**	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS
Warranty	12 Months unless specified otherwise	**Origin**	China

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I. Safety precaution

Being operated, theNozzle Tester(INJECTOR CALIBRATOR) must be far away from flame or high temperature place.Such as welding and so on.

II. Purpose of the Nozzle Tester:

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

III. Main technical parameter of the Nozzle Tester

No.	Type	Pressure gage range (Mpa.)	Overall dimensions L×W×H (mm)	Capacity of fuel tank (L)	Largest pressure tested (Mpa.)	Net weight (Kg)
1	PS-400A	0 ~40	160×100×380	1.0	40	6

IV.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.

V.Operation and adjustment of the Nozzle Tester

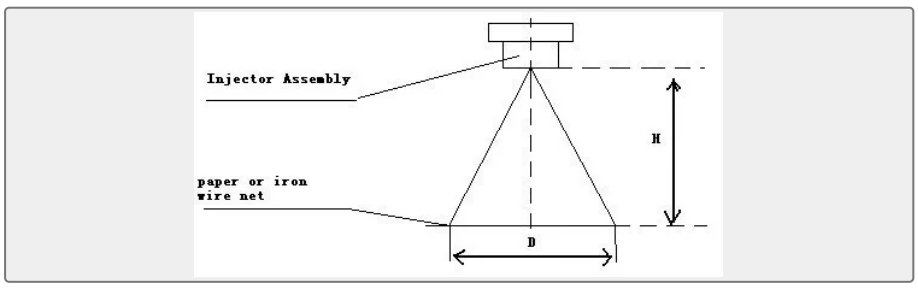
1. Fix the tester on stable work-table by using four bolts of the base-plate.
2. Working environment must be clean, so must operator’s hands and clothes must be clean. No operating out of the room is allowed.
3. Precipitate light -10 diesel over hours. Filter it through strainer. Then put the filtered 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. Adjuestment 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:
Tg a/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 from 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.

Vl.Maintenance of the Nozzle Tester

1. Calibrating fuel must be good quality light diesel deposited over48 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.