

AUTOMATIC NOZZLE GZD50/80

IEP22ATEX1082U

ASSEMBLY-APPLICATION INSTRUCTIONS AND WARRANTY DOCUMENT



GZD50



GZD80

The GZD 50/80 nozzle is designed for fuel (gasoline and diesel) distribution from a dispenser, with a maximum flow rate of 80 l/min, and it automatically shuts off the liquid fuel supply.

The GZD 50/80 nozzle operates at a working pressure of up to 3.5 bar.

It has a operating temperature range of -20°C to +40°C and can be delivered with a working range of -55°C to +55°C upon customer request.

The weight of the GZD 50/80 nozzle is approximately 800 grams.

They can be delivered individually or together with the following:

- Removable rotary coupling GZD R3/4"F 650 TYPE 1;
- Removable rotary coupling GZD R1"F - 600 TYPE 1;
- Rotary swivel GZDR1"F910;
- Rotary swivel GZDR1"M710;
- Rotary swivel GZDR3/4"F920;
- Rotary swivel GZDR3/4"M.720

INSTALLATION OF GZD 50-80 NOZZLE TO THE DISPENSER

Before mounting the GZD 50-80 nozzle to the dispenser, the following steps should be taken:

- Check if the thread on the nozzle's connecting part corresponds to the thread on the hose's connecting part for the GZD 50-80 nozzle,
- Place the gasket between the GZD 50-80 nozzle and the fuel hose,
- Connect the GZD 50-80 nozzle to the fuel hose manually,
- Tighten the GZD 50-80 nozzle to the fuel hose using a suitable tool ("Swedish wrench," "adjustable wrench," using any other inadequate tool is not allowed).
- Verify how the GZD 50-80 nozzle is positioned on the dispenser,
- Open the pump and check for any leaks in the connection between the GZD 50-80 nozzle and the fuel hose.
- Turn the GZD 50-80 nozzle downwards (towards the prepared container) and slowly pull the handle (1) to allow air to be released from the hose,
- Verify the functionality of the GZD 50-80 nozzle in the prepared container.

THE PRINCIPLE OF AUTOMATIC FUEL CUTOFF FOR GZD 50/80 NOZZLE

By pulling the lever (1), the piston mechanism (2) and diffuser piston (3) move axially, allowing fuel to flow from the GZD 50/80 nozzle. The fuel flow from the GZD 50/80 creates a vacuum, and it draws in ambient air through a capillary tube (4), which passes through the diaphragm assembly (5) and special channels in the nozzle body, mixing with the fuel. When the fuel reaches the inlet of the capillary tube (4) due to higher suction resistance, a negative pressure is created on the diaphragm assembly (5), pulling it and releasing the outer part of the piston mechanism (2). The outer part of the piston mechanism (2) moves the diffuser piston (3) until the fuel flow is completely shut off. The constructive solution of the diffuser, which has a compartment (6) inside, ensures that the fuel flow is automatically cut off, significantly reducing hydrostatic shock and extending the service life of the pump's hydraulics and electronics. (Figure 3)

MAINTENANCE OF GZD 50/80 NOZZLE DURING OPERATION

The structure of the GZD 50/80 nozzle does not require any specific maintenance or lubrication, as all moving parts are immersed in the fuel, allowing for self-lubrication and cleaning.

Periodically, it is recommended to check the tightness of the screws on the trigger guard plastic, and if necessary, tighten them using an appropriate tool.

INSTRUCTIONS FOR PROPER USE OF GZD 50/80 NOZZLE WHILE FILLING VEHICLE FUEL TANK

Due to different constructions of vehicle tank inlets, it is crucial to correctly position the GZD 50/80 nozzle while fueling.

Figure 1 illustrates the correct positioning of GZD 50/80 during fueling into the vehicle tank.

Figure 2 shows the incorrect positioning of GZD 50/80, and for safety reasons, the GZD 50/80 nozzle cannot be activated to fill the fuel tank.

If fuel is sprayed from the vehicle tank inlet and the nozzle is automatically disabled, the fuel filling rate needs to be reduced. The GZD 50/80 nozzle has two levels of fuel filling rate:

II - maximum flow

I - 50% of the maximum flow.

Even at low flow, the GZD 50/80 nozzle automatically shuts off the flow according to EN 13012 standard when manually refilling the vehicle tank.

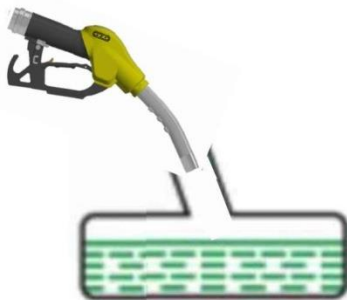


Figure 1



Figure 2

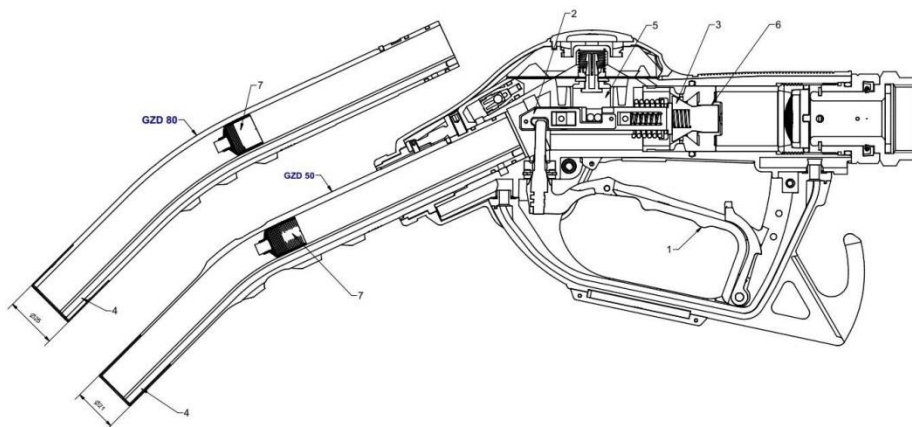


Figure 3

The GZD 50/80 nozzle, in its standard version, is equipped with a valve (7) attached to the fuel supply pipe, preventing fuel leakage from the GZD 50/80 nozzle after fueling the vehicle tank. (Figure 3)

The integrated valve (7), commonly known as "DRIP-STOP," in the GZD 50/80 nozzle prevents uncontrolled contamination of the user's vehicle by fuel from the nozzle, reduces environmental pollution, and most importantly, decreases the risk of fire and explosion.

Any remaining fuel in the GZD 50/80 nozzle is delivered to the next customer, ensuring both customer and fuel supplier satisfaction.

WARRANTY

The warranty period for proper functioning of the GZD 50/80 nozzle is 24 months from the date of delivery. If the exact delivery date cannot be determined, the production time stamped on the GZD 50/80 nozzle is considered as the start of the warranty period.

The warranty for the GZD 50/80 nozzle does not cover internal parts of the nozzle, external damages to the nozzle, and damaged parts resulting from non-professional use or use of the nozzle with liquids not intended for its purpose.

Warranty costs do not include installation and transportation expenses for the replacement or repair of the GZD 50/80 nozzle. Additionally, it does not cover compensation for damages to individuals or property resulting from the use of the GZD 50/80 nozzle.



CONFORMITY STATEMENT - EU Directive 94/9/EC

Manufacturer: **NOZTECH PETROL EQUIPMENT TECHNOLOGY TRADE INC.** -
declaration:

We hereby declare that the **Automatic Nozzle GZD 50/80** is manufactured in compliance with the requirements of EU Directive 94/9/EC and EN 13012 standard.

This statement is valid for the serial number: _____ from _____ year

NOZTECH PETROL EQUIPMENT TECHNOLOGY TRADE INC.

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