

# Type examination report on a fuel-dispensing nozzle

## Abstract:



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Test item: Automatic nozzle for use on fuel dispensers.

- Including spout for diesel or unleaded fuel.
- Without automatic safety de-activation mechanism
- Without adapter allowing connection to a vapor-recovery system.

Type: **Nozzle**

Test order: Type examination as per EN 13012 for use on filling stations.

Test period: Testing took place between May 2004 and October 2004.

Test standard: EN 13012 (March 2002), German version

Date: 02.12.2004

Our reference:  
IS-DDB-MUC/Sz

## Description of test item

Type of fuel dispensing nozzle:	Type I
Maximum flow rate:	80 l/min
Spout dimensions for: <ul style="list-style-type: none"><li>• diesel and leaded fuel:</li><li>• unleaded fuel:</li></ul>	As per ISO 9158 As per ISO 9159
Sensor position:	As per ISO 9158 / 9159
Pipe angle:	0°
Connection thread:	Art 1
Vapor recovery equipment:	No vapor recovery channel
Hose connection:	As per ISO 228-1
Including lever catch:	Can be rendered inoperative

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## **Requirements:**

### **Conduct of routine tests**

To ensure conformity of production, the following routine tests must be conducted on each individual valve:

- Tightness test (B.11);
- Testing of automatic shut-off device (B.12);
- Testing of attitude device (B.13).

Testing was conducted in the manufacturing plant.

### **Identification**

Every valve must be identified during manufacturing. Identification must be permanently legible and contain the following information as a minimum requirement:

- manufacturer name and identification number
- serial number
- date of manufacture (quarter and year)

And : "EN 13012, Type I"

### **Manufacturer declarations:**

The following characteristics must be confirmed in a declaration by the manufacturer:

- resistance of the materials used against fuels and fuel vapors with which the fuel-dispensing nozzle comes into contact.
- measures conducted on the casing of the fuel-dispensing nozzle, the guard and seals to prevent dangerous shock and friction sparks (e.g. as per EN 50014 Nr. 8.1).
- that none of the materials used on the nozzle continue to burn after being set alight as per ISO 11925-3.

### **Evidence of explosion protection**

Evidence proving that the nozzle is explosion-proof must be furnished. Evidence must confirm temperature category T3 and Group IIA. Depending on the component's position, the requirements outlined in prEN 13463-1 of either category 1 or 2 must be fulfilled.

### **Summary:**

The required type examination was conducted on 4 test samples as per EN 13012. All results of the individual tests were within the defined limits.

The test specimens fulfill the operating requirements for nozzles as per EN 13012.

Use of the nozzle as per EN 13012 is permissible, provided the requirements outlined above are satisfied.

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