

LAFON – Filling Limiter « SOLO »

INSTRUCTION NOTE

1. Marking

LAFON F-33530 BASSENS

SOLO

CE 0080



II1G c IIB T6

T_{amb.} : -25°C to 60°C

INERIS 04ATEX0103



E. LANNOY

2. Security instructions

Every alteration of this equipment can « invalidate » its certification. Please, look at the certificates and instructions describing this equipment so as to know its temperature class and explosion group. The operator installing this equipment must be certified so as not to alter the protection level of the equipment.

3. Conformity to standards

The equipment « SOLO » is in conformity with the Directive 94/9/CE.

Equipments usable in explosive atmospheres of the IIB group are designed and manufactured in conformity with following European norms:

- EN 13463-1: 2001,
- EN13463-5: 2003,
- EN 1127-1: 1997.

4. Description

The SOLO filling limiter is designed to be installed on the filling pipe, inside the fuel tank. The filling up of the tank is made with a tank truck. During the filling, the level of liquid in the tank increases. When it reaches the float, an internal valve is led towards the internal pipe and, driven by the flow, is plated on its “seat”. At that moment, the operator closes the valve of the truck to stop the flow. The pressure of the liquid, trapped behind the truck valve and the filling limiter, decreases thanks to an internal hole, machined in the limiter valve itself. Then, this valve opens once more and the rest of the liquid can go down inside the tank, draining the flexible pipe of the truck. By the way, another internal device of the limiter reduces the shock when the limiter closes.

If, at the end of the delivery, the operator opens, once again, by error, the truck valve, then, the float goes up and closes the limiter internal valve. At that time, the float is at its maximum top position and closes totally the internal valve. No more liquid can then be introduced in the tank.

When the tank is progressively emptied, the float goes down again so that the filling limiter becomes operational.

5. Temperature of use

This equipment can be used between -25°C and +60°C

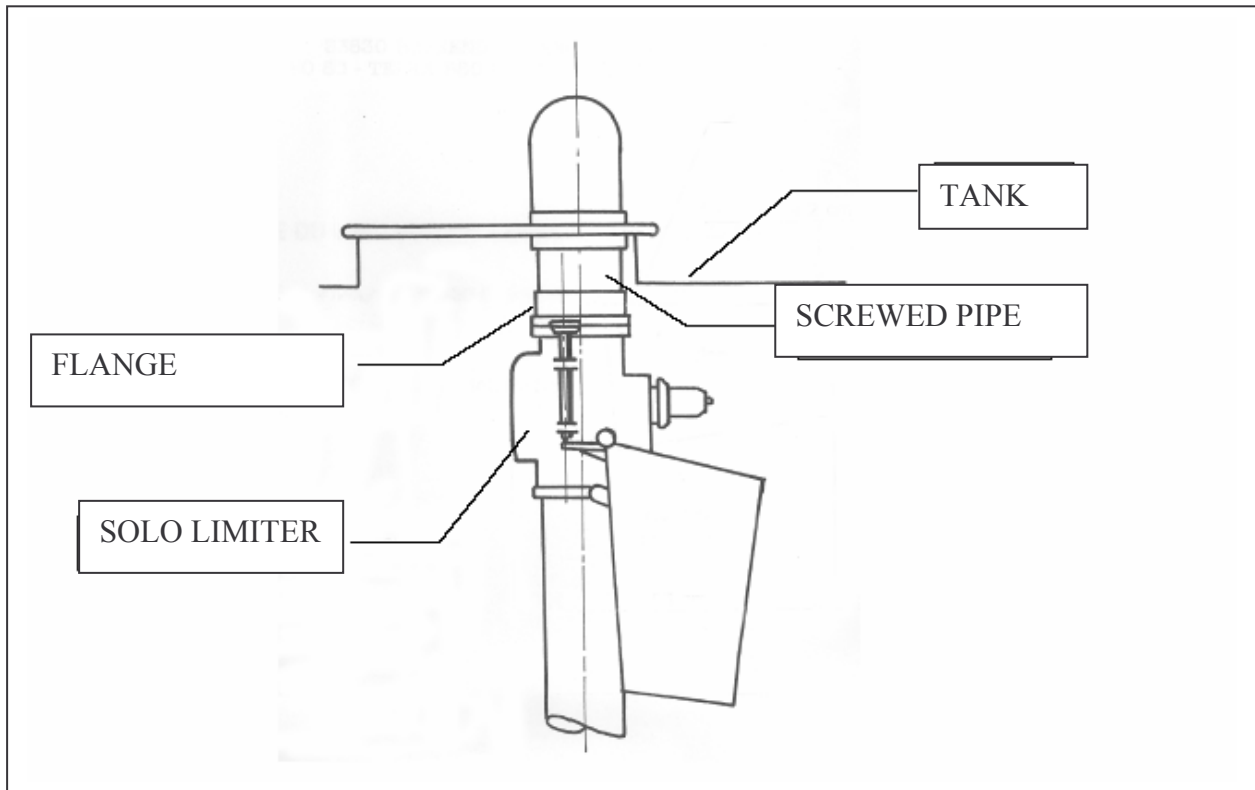
6. Installation and use

During installation and use, EN norms and local rules concerning safety of devices must be applied as well as general good practices in this technical field. The startup of the facility must be made by qualified staff.

In order to respect the earthing of the filling limiter, during its installation in the tank, the equipotentiality between the fixing flange of the limiter and the tank

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must be guaranteed thanks to the screwed pipe. (see following scheme). A test of electric continuity must be carried out.



7. Maintenance

One must absolutely respect EN norms in force in the country of use and concerning means of exploitation in potentially explosive zone. Maintenance must be carried out by qualified staff.