

Instruction Manual

Overfill Prevention Valve - ZP-900



www.zeppini.com.br

Zeppini Ecoflex

Index

1. Warnings	03
2. Introduction	04
3. About the Overfill Prevention Valve – ZP-900	05
3.1. Application	05
3.2. About the Product Zeppini Ecoflex	05
3.3. Available Models	05
3.4. Components	05
3.5. Operation	06
4. Transport and Storage	07
5. Installation	08
5.1. Required Tools and Materials	08
5.2. Step by Step	08
6. Operation	11
6.1. Frequency	11
6.2. Step by Step	11
7. Maintenance	12
7.1. Frequency	12
7.2. Step by Step	12
8. Additional Information	13
9. Zeppini Ecoflex Limited Warranty Terms	14
10 Zennini Ecofley Sunnort Contact	

1. Warnings

Throughout this manual, you will find the warnings illustrated below. Be aware, since these are important indications that can facilitate certain processes and point out important care measures.



TIP:

 Indicates that the featured information facilitates equipment installation, operation or maintenance.



ATTENTION:

• Indicates that the featured information includes details that should be observed about the processes that are being performed and for the proper operation of the product.



IMPORTANT:

 Indicates that the featured information is of extreme importance for the integrity of the equipment, its proper operation and the safety of those involved.

It is essential to be aware of these warnings.

Are there any questions?

If you have any difficulty during equipment installation, operation, or maintenance, feel free to contact us!

Estrada Particular Sadae Takagi, nº 605, Bairro Cooperativa

São Bernardo do Campo / São Paulo / Brazil

CEP 09852-070

E-mail: contato@zeppini.com.br

Telephone: +55 11 4393 3600

C/O Technical Support

We will be pleased to help you!

2. Introduction

The objective of this manual is to instruct on the proper procedures and best practices for the installation, operation, and maintenance of the Overfill Prevention Valve - ZP-900 to ensure its perfect operation and provide greater equipment durability.

0

IMPORTANT:

- We point out that the non-compliance with any of the instructions detailed in this manual may cause irreversible damages to the product and subsequent loss of warranty.
- While performing the installation, operation and maintenance of this equipment, use adequate
 PPEs to perform these services.
- The installation, operation and maintenance processes should be performed by a specialized company, following all the steps, and using the tools specified in this manual.
- If any non-compliance is detected during the installation, operation, or maintenance of the equipment, please contact the Zeppini Ecoflex technical support team immediately for guidance on how to proceed.

3. About the Overfill Prevention Valve - ZP-900

3.1 Application

The Overfill Prevention Valve – ZP-900 is an equipment installed inside the Underground Fuel Storage Tank that has the function of restricting the flow of fuel and preventing overflow during fuel unloading operations. The system is applicable to the Connection Set for Displaced Discharge, as well as to the method of discharge on the side of the Tank.

3.2 About the Zeppini Ecoflex Product

The Zeppini Ecoflex Overfill Prevention Valve - ZP-900 is an equipment developed to meet high flows. The system has a floating device that acts in two stages, that is, the first stage is triggered when the volume of liquid inside the tank reaches 95%, reducing the flow rate by up to 10%. The second stage comes into action allowing the passage of a maximum of 5 L/min, allowing the exhaustion of the fuel discharge hose.

3.3 Available Models

The Zeppini Ecoflex Overfill Prevention Valve - ZP-900 is available in one model:



3.4 Components

Quantidade	Componente
01	Overfill Prevention Valve
01	Bottom Pipe
01	Connection Terminal
01	Fastening Kit
01	Identification and warning plate

ATTENTION:

• During the receipt, check the physical integrity of the equipment. Reject materials delivered out of the manufacturer's specification!

3.5 Operation

During the fuel unloading process of the tanker truck, the floating device of the Overfill Prevention Valve – ZP-900 gradually floats, while the Underground Fuel Storage Tank is filled with fuel.

Upon reaching 95% of the maximum capacity of the Storage Tank the first stage is activated, and the flow is reduced by up to 10%, then the second stage is activated and the flow is reduced by up to 5 L/min. The system is designed to relieve pressures in excess of 300 KPa in up to 10ms.

4. Transportation and Storage

During the transport and storage of the Overfill Prevention Valve – ZP-900, some important care measures must be taken to ensure equipment's integrity:

- Transport the Overfill Prevention Valve ZP-900 inside its packaging, in appropriate vehicles and away from objects that could damage it.
- When transporting the product, avoid impacts which might compromise its structures.
- Store the Overfill Prevention Valve ZP-900 carefully, protecting it against collision, sharp objects, and compression.
- Protect the Overfill Prevention Valve ZP-900 from natural events.
- Do not place heavy objects on top of the Overfill Prevention Valve ZP-900.



IMPORTANT:

If it becomes necessary to stack the Overfill Prevention Valve – ZP-900, do it carefully. Poorly stacked equipment can slip, and cause accidents involving people and damage the product.

5. Installation

5.1 Tools and Materials Required

To install the Overfill Prevention Valve – ZP-900 it is necessary to use the following tools and materials:

- 4.2mm drill
- Wrench
- Drill
- Lime or Thick Sandpaper
- Atomic brush
- Riveter
- **Ruler for Measuring Tanks**
- Metal saw
- Tape

5.2 Step by Step



IMPORTANT:

• The Overfill Prevention Valve – ZP-900 system will not work if the Storage Tank is equipped with a drop tube or load pipe welded inside.

Passo 1 - Realize o corte do tubo que será utilizado no módulo inferior da Válvula Antitransbordamento ZP-900 de acordo com o diâmetro do Tanque para Armazenamento Subterrâneo:

- Diameter of 1910mm: cut the pipe that will be used in the lower module so that it is 1360mm long.
- Diameter between 2100mm: cut the pipe that will be used in the lower module so that it is 1560mm long.
- Diameter between 2549mm: cut the tube that will be used in the lower module so that it is 2005mm
- Diameter greater than 2549mm: Do not cut the pipe that will be used in the lower module.

Step 2 - Clean the entire area of the lower module. At this time, it is important to ensure the removal of all burrs from the aluminum tube if it has been cut.

Step 3 - Insert the bottom module pipe into the body of the Overfill Prevention Valve – ZP-900.

- **Step 4** Perform four 90° equidistant perforations, crossing the lower module and the body of the Overfill Prevention Valve ZP-900.
- Step 5 Use a riveter to attach the lower module to the body of the Overfill Prevention Valve ZP-900.
- **Step 6** After completing the preparation step of the lower module of the Overfill Prevention Valve ZP-900, start the preparation step of the upper module.

1

ATTENTION:

- It is important to carry out the planning of the installation before cutting the modules of the Overfill Prevention Valve – ZP-900.
- **Step 7** When the Overfill Prevention Valve ZP-900 is installed in the Connection Set for Displaced Discharge the upper module must be cut by 260mm. The measurement should be calculated considering the base of the conical seat.
- **Step 8** After the tube has been dimensioned to the measure of 260mm the support should be fixed to the tube using 4 rivets. The holes must be made equidistant 90°.



ATTENTION:

- It is important that the central sealing ring Overfill Prevention Valve ZP-900 is not inserted inside the Storage Tank. This should be supported on the Connection Set for Displaced Discharge or on the side of the Tank.
- After positioning the Overfill Prevention Valve ZP-900, it must be at least 15cm away from the bottom of the tank.
- **Step 9** Check that the float in the center module is working properly and with free movement.
- **Step 10** After the installation of the modules, start the installation of the Overfill Prevention Valve ZP-900in the Tank for Underground Storage of Fuels.
- **Step 11** Place the Overfill Prevention Valve ZP-900, properly mounted, in the Tank until the connection terminal is fixed to the top pipe rests on the end of the Connection Assembly for Displaced Discharge or on the loading tube.

0

IMPORTANT:

• Avoid shocks and unnecessary strain on the Overfill Prevention Valve – ZP-900.

Step 12 - Attach the platelet that accompanies the Overfill Prevention Valve – ZP-900 to the collar of the Sealed Discharge Device using a plastic clamp.



ATTENTION:

In installations with remote discharge, it is not necessary that the drilling for remote discharge
of the central module of the Overfill Prevention Valve – ZP-900 coincide with the tee of
derivation for fuel intake.

6. Operation

6.1 Frequency

As it does not require any type of operation, the interaction with the Overfill Prevention Valve – ZP-900 will occur according to the maintenance schedule of this equipment, as described in the maintenance item of this manual.

6.2 Step by Step

The Overfill Prevention Valve – ZP-900 does not require operation for its operation. Strictly follow the steps described in the maintenance item of this manual, always according to the frequency necessary to perform the inspection and maintenance of this equipment.

7. Maintenance

7.1 Frequency

The inspection of the Overfill Prevention Valve – ZP-900 should take place every six months.

7.2 Step by Step

Step 1 - Isolate the area and open the lid of the Sidewalk Chamber with Containment Reservoir (Spill) or the Sidewalk Chamber Cover, then open the Containment Reservoir, according to the place where the valve is installed.



IMPORTANT:

- Before opening any sidewalk chamber, insulate the area with cones and zebra tape.
- **Step 2** Unlock the padlock and then remove the cover from the Sealed Discharge Device or remove the screws from the blind cover on systems equipped with the Connection Set for Displaced Discharge.
- **Step 3** If any damage to the integrity of the equipment or its components is identified during inspections, perform the replacement.
- **Step 4** Close the lid of the Sealed Discharge Device. Then pass the padlock on the equipment and perform the locking or install the screws in the Connection Set for Displaced Discharge.
- Step 5 Close the Spill Containment with Manhole or the Tank Sump and Manhole Cover.

8. Additional Information

Model	Overfill Prevention Valve – ZP-900
Dimension	4"
Closure system	Double stage
Drive	Side float
Volume for drive	95% tank volume
Material	Nickel-plated aluminium
Warranty	1 year

9. Zeppini Ecoflex Limited Warranty Terms

This document describes the warranty policy for the equipment supplied by Zeppini Ecoflex. By using Zeppini Ecoflex equipment, you agree to the terms outlined in this document.

All and any term described in the document "Zeppini Ecoflex Limited Warranty Terms" applies solely to original Zeppini Ecoflex products, sold by the company or by any of its channels in more than 80 countries.

Zeppini Ecoflex provides a 1-year limited warranty from the date of purchase of the product (invoice issuance), assuring that it is free of any defect with respect to materials and labor used during manufacturing.

Always maintain the original invoice delivered with the equipment as this is the only document accepted by Zeppini Ecoflex that proves the origin of the product.

Filing for Support Under Warranty

To receive support under warranty, the consumer must present the product's original invoice, answer questions regarding the conditions of installation, operation, and maintenance of the product in the period that it was being used and, if so requested, send additional material (such as images and documents) to assist in the diagnosis of potential problems, as well as following other Zeppini Ecoflex procedures that may not be described in this document.

If the Zeppini Ecoflex team establishes that the support under warranty request is valid and it is within the warranty period described in this document, Zeppini Ecoflex will, at its discretion, adopt one of the following procedures:

- Repair the Zeppini Ecoflex product, using new components, if necessary.
- Replace the Zeppini Ecoflex product by an equal one or with equivalent functionality.

If any warranty service is granted, the warranty period of the product will be equivalent to the remaining warranty period, considering the initial purchase date of the product or a period of 30 days after the repair, whichever is greater.

In the event of product exchange and parts replacement, the replaced item will become property of Zeppini Ecoflex.

Warranty Filing Options:

The support methods described below will only be provided when previously agreed with the Zeppini Ecoflex Application Engineering team and all the documents and information mentioned above have been properly presented.

Once agreed, Zeppini Ecoflex will provide warranty services in one of the following ways:

- Support by in-person delivery Applied when the consumer delivers the product and its respective invoice in person at the Zeppini Ecoflex headquarters. And as soon as service completion is notified, the consumer collects the product.
- Support by shipping Applied when the consumer sends the product to Zeppini Ecoflex. In this case,
 Zeppini Ecoflex will guide the consumer regarding the procedures to be followed and, if required, will send proper packaging for the product to be shipped.

Freight costs of the entire process will be paid by Zeppini Ecoflex if all agreed procedures are followed.

Upon receiving the product, if the Zeppini Ecoflex support team finds information other than that mentioned by the consumer when filing for warranty, all shipping costs will be passed on to the consumer.

 Self-support - Applied when Zeppini Ecoflex determines that the consumer can perform the repair or replace the components. In this case, Zeppini Ecoflex will send the replacement component to the consumer with all installation instructions.

In the event of Self-support, the Zeppini Ecoflex team may request to receive the part or component that is being replaced before sending a new component to the consumer, if it is neither essential for the operation of the equipment or for the commercial activities of its consumer.

If after the replacement process, the equipment or component received by Zeppini Ecoflex does not display the problems described by the consumer, the costs of the components or equipment sent, as well as freight costs, will be passed on to the consumer.

In case of Self-support, Zeppini Ecoflex is not responsible for additional labor costs or the quality of services provided by third parties.

What is not covered by the Zeppini Ecoflex Warranty:

- Damages caused by problems of external origin, such as misuse, fires, earthquakes, floods, among others.
- Damages caused by improper equipment transport, storage, or handling.
- Damages caused by use contrary to information contained in the instruction manual of the product.
- Damages caused by failures in the installation, maintenance and/or operation process of the product.
- Damages resulting from natural wear of the product and its components.
- Damages defined as cosmetic: scratches, cracks, dents, among others.
- Modifications or repairs carried out by third parties that are not accredited and/or without previous acknowledgement and authorization from Zeppini Ecoflex.
- Products being used alongside components that are not Zeppini Ecoflex original or indicated by the company.
- Requests made outside the period featured in this document.

Important:

Zeppini Ecoflex does not make any declaration, provides no guarantee, nor assumes any liability for services rendered by third parties.

Limitations due to Geographic Location:

The time limit for replying to a request may vary due to geographical differences, according to the request and limitation relative to the availability of components and parts.

The consumer may be responsible for complying with local import and export laws and all custom fees, taxes, among other taxes associated with the replacement or repair process.

Liability Limitations:

Zeppini Ecoflex will not be liable for any direct or incidental damages, or those resulting from misuse, nor loss of usefulness of the product, income, present or anticipated loss of profits, use of money, savings, business, commercial fund, loss or damage to reputation, fines, sanctions, or penalties of any kind to developments using the products, or any other aspect that is not related to the quality of its products.

Additional Information:

Zeppini Ecoflex representatives, dealers, agents and employees are not authorized to perform modifications, extensions, or additions of clauses to the terms of warranty described in this document.

Zeppini Ecoflex will not be liable in any way for any aspect beyond those described in this document.

All and any extension agreement of the terms described herein will be the sole responsibility of the professionals who made the agreement.

Zeppini Ecoflex offers its consumers a technical support department.

In case of questions or difficulties with Zeppini Ecoflex equipment, please contact:

• Telephone: +55 11 4393-3600

• E-mail: contato@zeppini.com.br / suporte@zeppini.com.br

Zeppini Ecoflex reserves the right to modify its warranty policy at any time, wherein consumers will be treated in accordance with the policy in effect during the purchase of their product.

10. Zeppini Ecoflex Support Contact

Zeppini Industrial e Comercial Ltda.

Estrada Particular Sadae Takagi, 605, Bairro Cooperativa

São Bernardo do Campo - São Paulo - Brazil

Zip Code: 09852-070

