

STARTER KEG - OPERATING INSTRUCTIONS

INTRODUCTION

These instructions contain important safety related information. The integration of the vessel by its owner in any facility is not within the scope of the manufacturer and is not the aim of this document. Regarding the information compiled in these operating instructions, the manufacturer has the rights reserved to make the technical modifications needed for improving the vessel.

Manufacturer: THIELMANN PORTINOX SPAIN, S.A.
Ctra. de Pulianas, Km 6
18197 PULIANAS (GRANADA)

INTENDED APPLICATION

The vessel is made to transport and distribute beverages according to the volume and working pressure marked on the vessel.

This vessel has been designed to be used with manual filling and washing devices. **The use in automated installations is not recommended.** The characteristics of the installation may cause a malfunction of the container.

REGULATIONS OF GUARANTEE

The terms of the right of guarantee and liability are set out in the conditions of the contract. Those rights are extinguished, among other reasons, in case of:

- Misuse, not considering the intended purpose of the product.
- Misuse, not considering the technical parameters marked on the vessel.
- Vessel modifications not authorized by THIELMANN PORTINOX SPAIN, S.A.
- Not considering the safety regulations.
- Poor cleaning and/or maintenance.
- Lack or inappropriateness of the safety accessories.



SAFETY REGULATIONS

- **This document must be always available.**
- **Respect the intended purpose of the product.**
- **Respect the pressure limits.**
- **Do not open the vessel before ensuring its previous depressurization.**
- **Keep away from fire and high temperatures.**
- **Respect all relevant standards for accident prevention.**
- **Ensure that all inspections and maintenance operations are carried out by competent staff.**
- **Ensure the material compatibility of the vessel and gaskets with the fluids inside.**
- **Use original spare parts only.**
- **Keep the data marked on the vessel legible.**

ASSEMBLY AND SET-UP

The vessels are supplied with suitable inlet and outlet couplings. The assembling in the working place and the inlet and outlet connections are operations that have to be done by competent staff.



The temperature range of use is -20°C $+130^{\circ}\text{C}$



According to the maximum allowed working pressure [PS], which is marked on the vessel, the pressure must go into the container throughout an adequate pressure regulating valve, a pressure safety valve approved by the competent authority and a gauge. These safety devices to avoid over-pressure have to be blocked in order to impede unauthorized manipulations.

MAINTENANCE / INSPECTION

The vessels must be washed before their first use, after every use and before a long non-usage period. Periodically, and at least every year, the vessel should be checked in order to detect possible leaks, corrosion indicators or mechanical failures. The frequency depends on the operating conditions and the environment.



The contact with products which composition and/or compatibility with the vessel material is unknown has to be avoided.



The contact with the following chemicals and substances is not allowed:

- Hydrochloric acid, hydrofluoric acid, sulfuric acid, phosphoric acid.
- Nitric acid in concentrations higher than 50%.
- Halogens such as chlorine, iodine, fluorine, bromine and their salts, acids and other derivate compounds.
- Tools and equipment made of ferritic materials and any contact with rusting.

OPENING / CLOSING

The oval lid closes from the inside. Thus, it can only be opened once the vessel has been **depressurized completely. Do not force it!**



Disconnect and ventilate the pressurized lines connected to the vessel. Use the pressure relief valve to ensure the depressurization of the vessel.

OPENING:

After depressurizing, lift the lid lever to a fully vertical position and remove the lid moving it downwards and turning it.

CLOSING:

Check and moisten the gasket. Replace if necessary. Clean the area where the o-ring stands. Close the lid following the previous steps in reverse order.

Verify the fitting of the closure after this operation. Ensure the correct position of the pressure relief valve to prevent leaks.

PERIODIC REVIEWS

The user has to take all necessary measures to ensure that the periodic reviews and approvals required by the local legislation are achieved.

