

## Installation Guide

# CLIPHVENT

## Vent Valve for EV Batteries

CLiPHvent serves to protect the battery. CLiPHvent's primary function is managing pressure differences between the interior of the housing and the environment caused, for instance, by thermal runaway or external environmental influences.

CLiPHvent consists of up to four parts

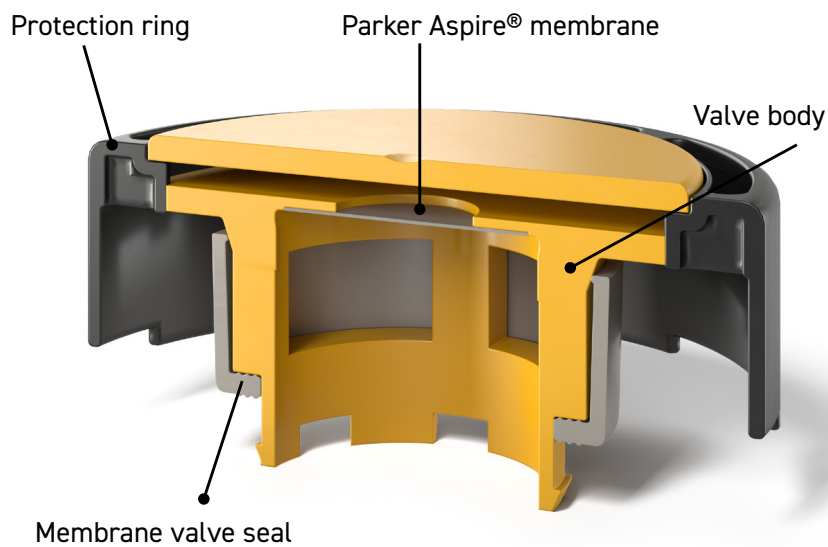


Fig. 1: Cross section and designations of CLiPHvent components

## Types of Installation

CLiPHvent can be installed in two ways: flush onto a surface or recessed (requires no protection ring) in a bore.

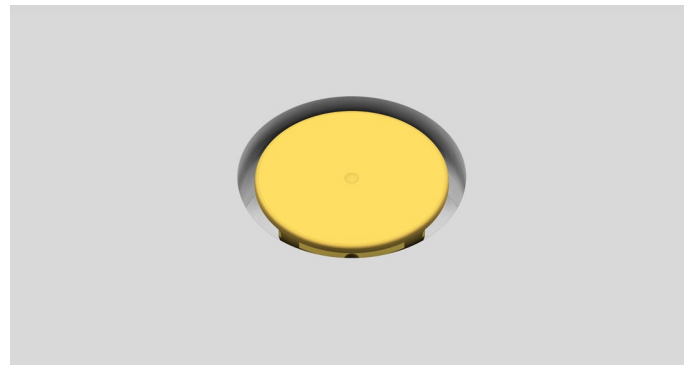


Fig. 2: Installed CLiPHvent with black protection ring, installed onto a housing surface (left). CLiPHvent without protection ring, installed in a bore, flush-recessed (right).

## Installation

The installation recommendations and steps are subject to potential changes. Prior to installing CliPHvent, ensure correct assembly of the components (see fig. 1). Please check the membrane valve seal in uninstalled condition for deformation and correct orientation on the valve body. The membrane valve seal must fully cover the venting slots and sit correctly on the base body. fig. 3 shows the cross section of a CliPHvent, flush-installed inside a bore. Fig. 4 shows the cross section of a CliPHvent installed on the surface of a housing.

Specifications concerning surface properties and hole diameter apply to both types of installation. An installation chamfer as shown in fig. 3 is recommended for ease of assembly.

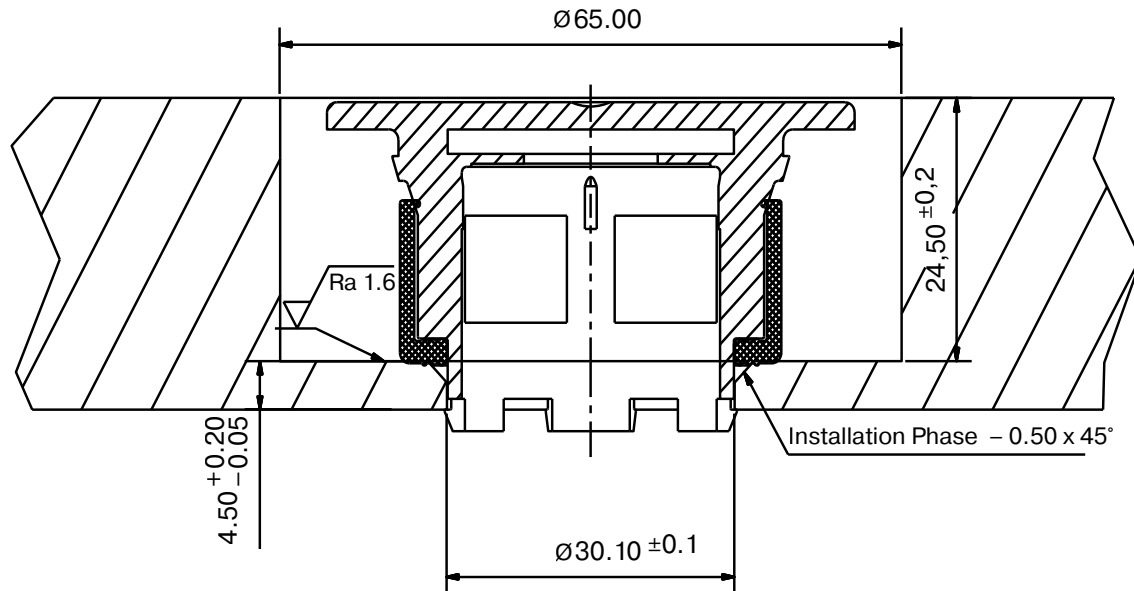


Fig. 3: CliPHvent, installed inside a bore (without protective ring)

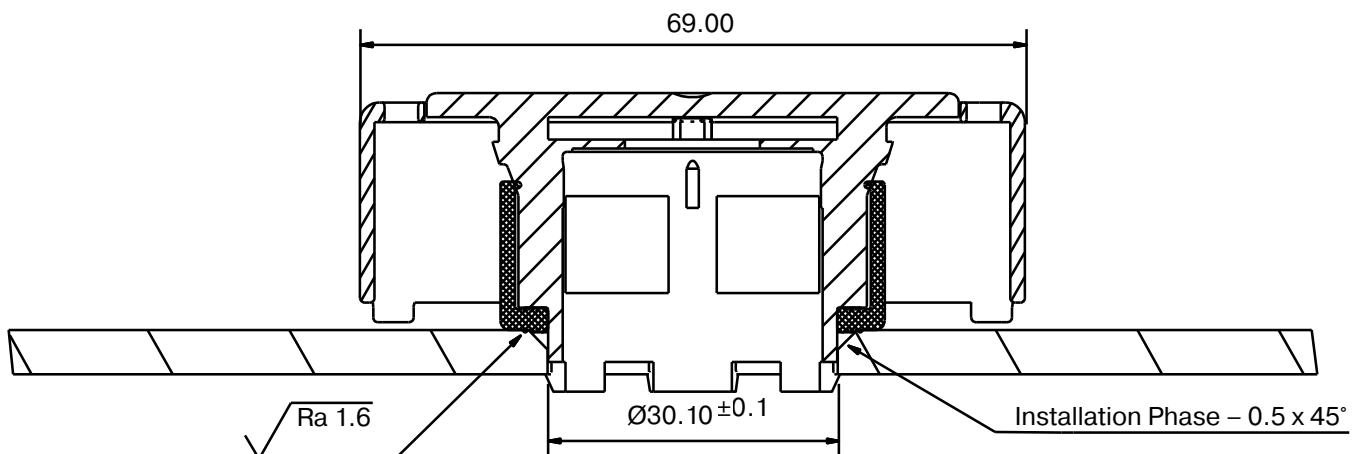


Fig. 4: CliPHvent, installed on the housing surface (with protective ring)

# Installation Steps

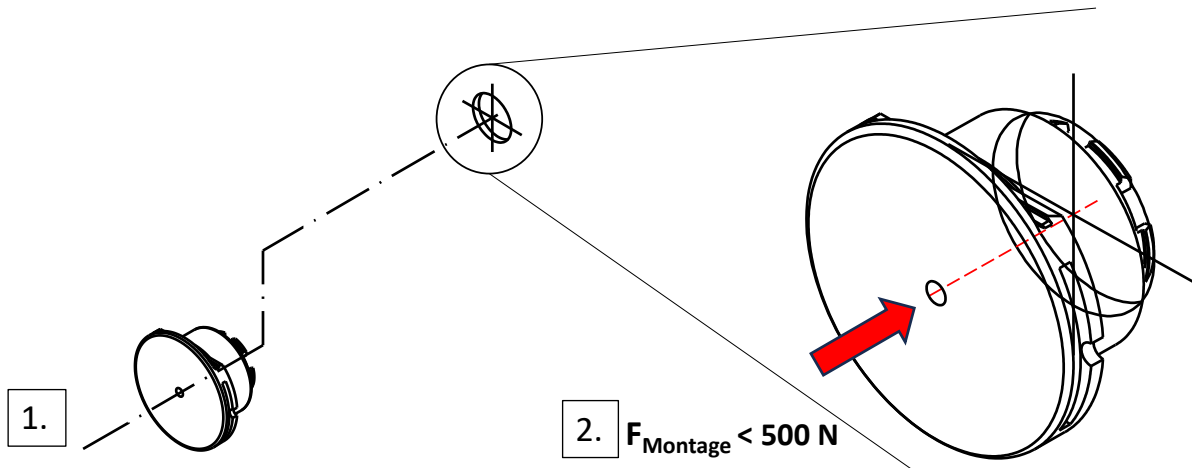


Fig. 5: Installation step one and two

## Step 1

Align CliPHvent for snap assembly vertically and centrally vis-à-vis the installation area of the installation hole.

## Step 2

To snap in the connection, push the CliPHvent into the bore. The force should be applied to the valve body in a centered and preferably flat manner (red arrow). Tools for joining such as a press may be used. When using a protection ring for installation, the installation force may only be applied to the valve body. The protection ring must not be subjected to installation force (risk of dismantling the protection ring from the valve body).

## Warnings

- $F_{\text{Montage}} > 500 \text{ N}$  must not be exceeded to preclude damage to the membrane valve seal (temporary value).
- Non-destructive dismantling (e.g., for reuse) is not possible.
- The protection ring may be used as a positioning aid for installation and is not suitable for introducing a load.

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