

Technical Note	No 2
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Drafted by	UIP Topical Committee SAFETY

# Marking of wagons with forced vent valve and vapour return

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## 1) Objectives

In the past the marking of wagons with forced vent valves and systems for vapour return were different due to national sector agreements. However, such different markings bear still today the risk for wrong handling and possible damages of tanks.

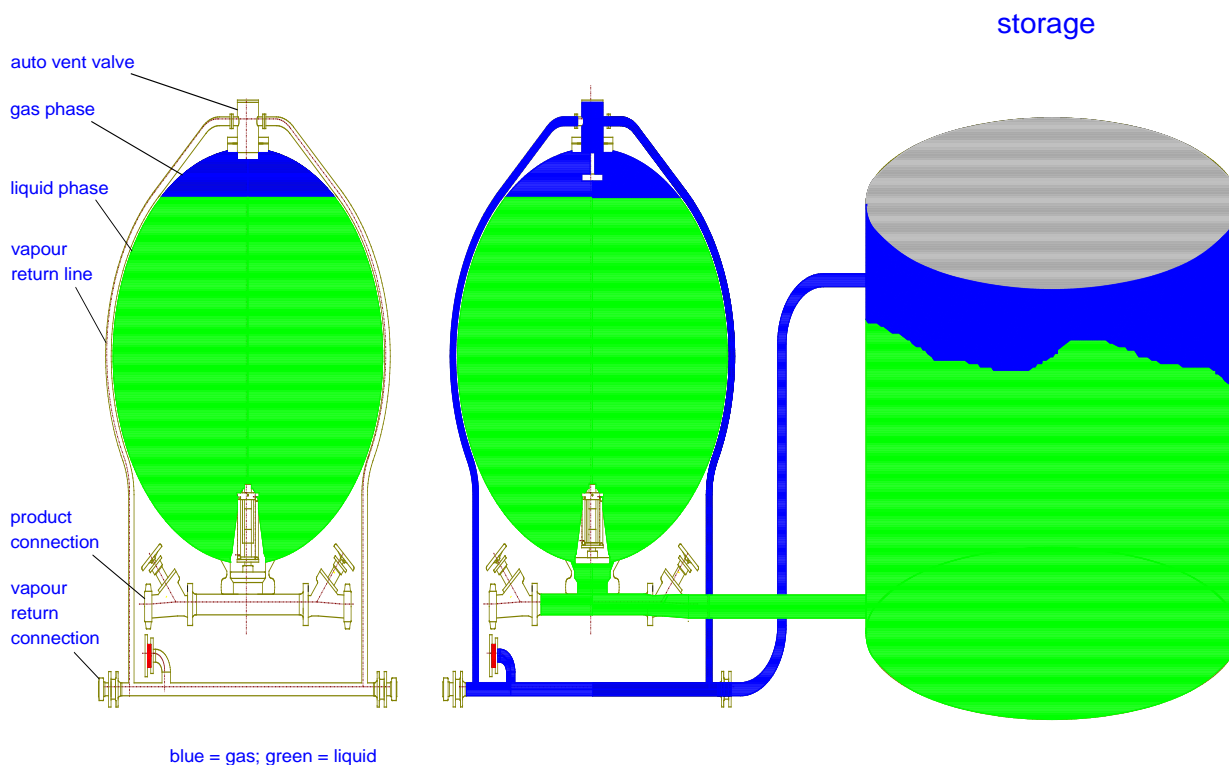
In order for the operator to load or unload correctly a Tank Wagon a clear marking is necessary.

This UIP Technical Note is drafted by the UIP Topical Committee Safety and provides for a Europe- wide instruction on how to mark Tank Wagons with forced vent valves and vapour return systems.

The functional sketch below shows the basic principle of a vapour return system:

tank wagon technology

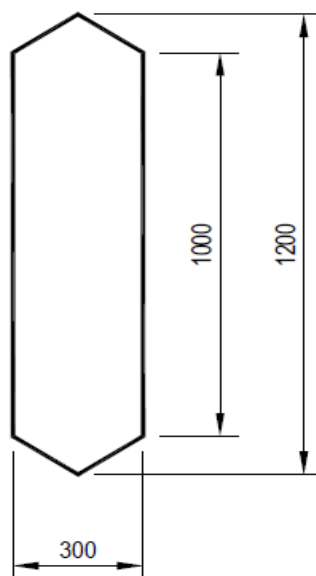
function of vapour return system



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## 2) Marking of wagons with unloading without further action

Every Tank Wagon with the technical equipment that enables unloading without any further action for ventilation of the tank should be marked with a white sticker / painting (Figure 1) in RAL 9016 and black frame with 10 mm width.



**Figure 1**

The marking is to be placed on both sides of the tank, symmetrically at the 3 and 9 o'clock position. Depending on the available free space, this marking should be up to 2500mm to the left or to the right man lid position.



**Photo 1**

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A continuous stripe around the tank, as shown in Photo 2, must not to be removed. It has the same meaning as the markings in Figure 1 and Photo 1. In case of new painting or a necessary renewal of the marking, the white stripe should be replaced by the white sticker / painting.



**Photo 2**

Wagons without forced vent valve, or without automatic forced ventilation, or an anti-vacuum swing check valve in the vapour return pipe shall **not** be marked with a white sticker / painting at the tank. Such markings (with a continuous or a disrupted white stripe around the tank) must be removed.

### 3) Vapour return

Wagons with a mounted but not functional vapour return system have to be marked additionally with the sticker shown in Figure 2.

nicht aktive Gaspendingung
non active vapour return system
récupération des vapeurs inactive

**Figure 2**



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This sticker has to be placed on both sides of the tank near to 3 or 9 o'clock position and up to 3000 mm left or right of the man lid position, near to the non-active vapour return system.

#### 4) Vacuum swing check valve in the vapour return pipe

Wagons without a vacuum swing check valve in the vapour return pipe have to be marked with the sticker shown in Figure 3.

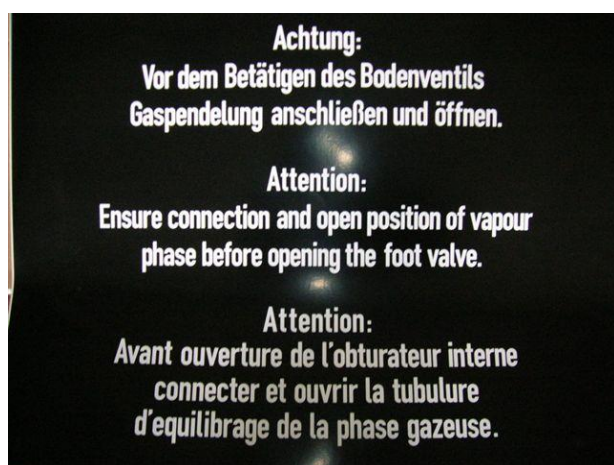


Figure 3

This sticker has to be placed on both sides of the tank near to the connection of the vapour phase.