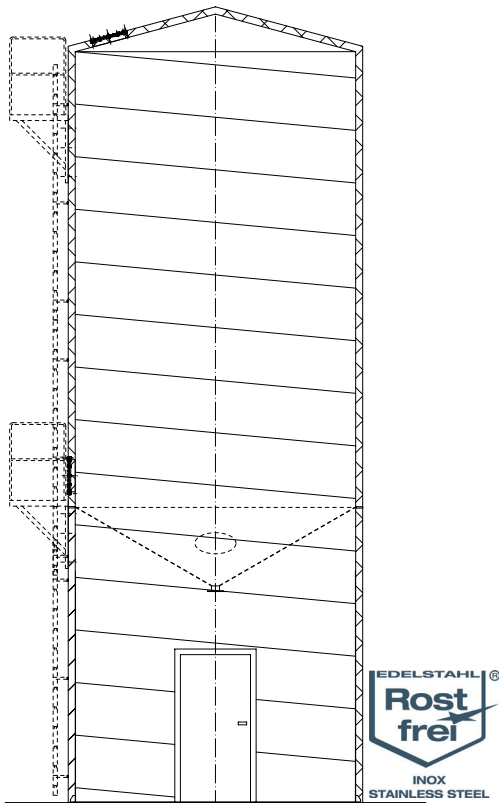




Stainless steel water tower for water supply

HydroSystemTower®



HydroSystemTower® is a registered trademark of Hydro-Elektrik GmbH

Water storage tank • Waterworks • Storage tank with pressure booster • Tank with pressure interrupter

HydroSystemTower® - The water tower reinvented

- Advantages**
- Stainless steel instead of concrete or plastic
 - High level of hygiene, quality and safety
 - Absolutely leak-tight, full system control
 - Best water mixing
 - Ventilation via microfilters
 - Integrated installation room
 - Thermal insulation with VA weather-proof panelling
 - Compact, space-saving and cost-effective
 - Extremely short construction site time thanks to factory manufacture
 - Well thought-out right down to the very last detail
 - Integrated tank cleaning system
 - For volume of up to 150 m³ (single or dual-chamber)
 - Long lifetime
 - Totally recyclable

System Water towers are generally considered to be expensive and complex to operate - but not the HydroSystemTower®:
It is the innovative further development of the HydroSystemTank® which converts it into a water tower.

Der HydroSystemTower® is

- manufactured completely at the factory,
- transported to the installation location,
- mounted on the base provided by the user,
- connected and commissioned.

The lower section of the tank contains the installation room. This is where pipeline installation, water treatment systems, pumps and pressure booster systems with switchgear assemblies can be configured. Access to the installation room is gained via a secured and thermally insulated door. A room air dehumidifier with dew point sensor is installed to prevent condensation on the inner surfaces. The tower has thermal insulation and complete weather-proof panelling on the outside.



Production in the factory



Tank with isolation



Transportation

HydroSystemTower® - The flexible all-rounder

The tower, with its structural analysis, can be adapted flexibly to the customer's specific requirements.

It is installed on a concrete base constructed by the customer in accordance with the structural requirements. It is also possible to combine two water towers.

This way, the storage volume can be increased to 300 m³ by connecting the storage tanks in parallel.

Water storage tank

The HydroSystemTower® can be used as a water storage tank anywhere where, in addition to intermediate storage, an improvement and increase in supply pressure is required. It is ideally suited in situations in which an existing water tower needs to be replaced and it represents a good alternative to refurbishment of existing systems.

Pressure booster system

The HydroSystemTower® with pressure booster system is used for supply of smaller localities with insufficient mains pressure. The fully automatic pressure booster system with frequency-controlled pumps means that larger quantities of water can be drawn without influencing the mains pressure.

Waterworks

The HydroSystemTower® as the waterworks combines water treatment with water storage and pressure boosting. More compact? Impossible! Classic multi-stage filter systems or state-of-the-art membrane systems with ceramic modules and ozone regeneration are used for water treatment. These waterworks are very suitable for smaller autonomous supplies.

Pressure interrupter

The HydroSystemTower® as a pressure interrupter and storage system in those situations in which there are pressure differences in a supply mains and a certain water reserve has to be held.

Tank data

- Nominal tank diameter 4.0 m (without insulation)
- Height up to 15 m
- Volume up to 150 m³ per tower
- Duplex steels ASTM S32101, ASTM S32205
- Custom versions on request

Installation

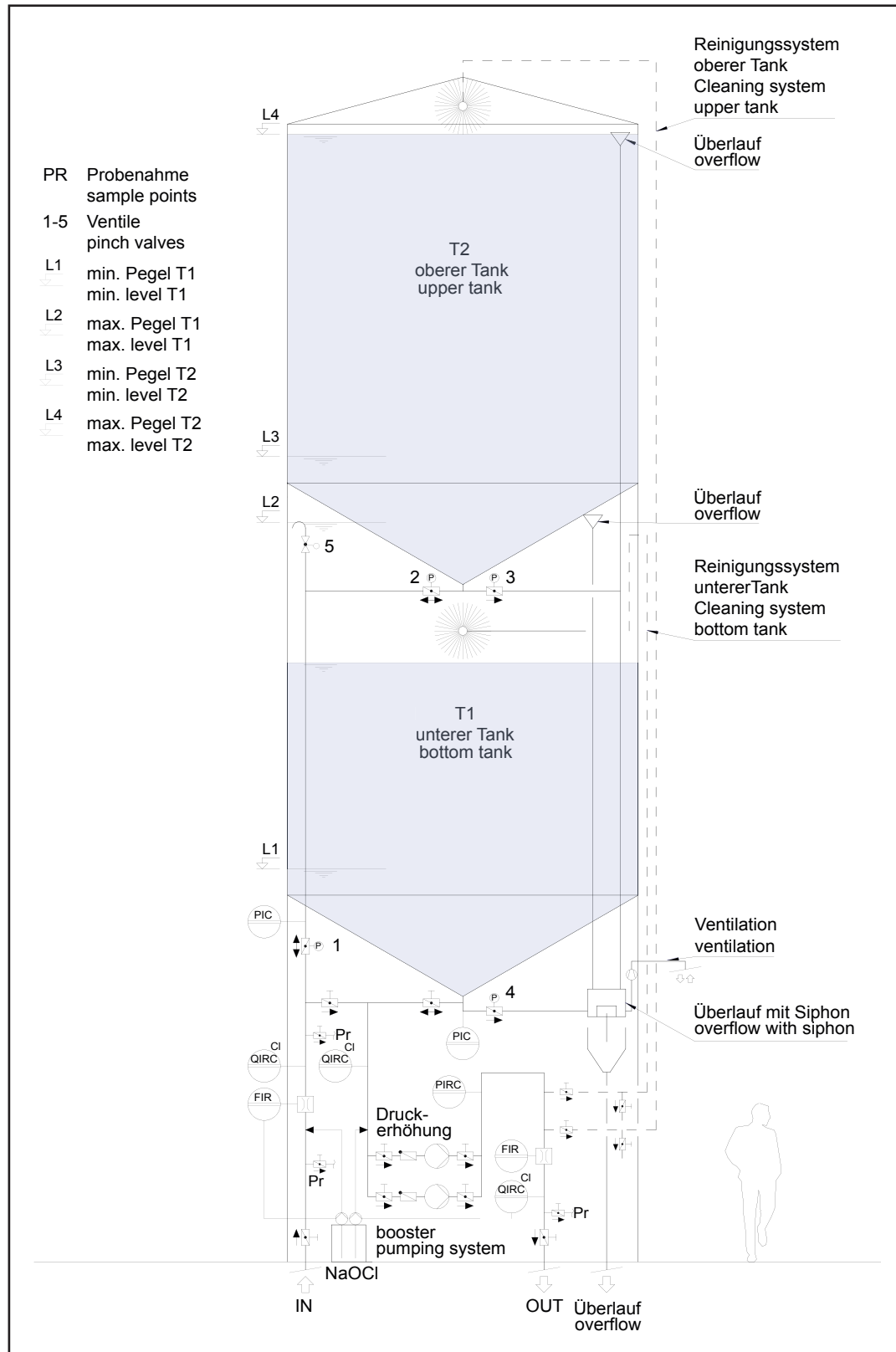
The tanks are installed on a base constructed in accordance with the structural requirements, and fastened permanently and reliably with heavy duty anchors.

The floor of the Hydro-SystemTower® is also equipped with thermal insulation so that there are no heat bridges or cold bridges. Only one base has to be constructed when combining multiple towers.



Ladder with roof access

Design
example



HydroSystemTower® with two tanks and pressure booster system