

1. Delivering the vessel to the installation site accessible by truck

Scope of our services ends with the delivery of the vessel to the installation site.

The design and provision of foundations and anchoring as well as the organisation and coordination of the crane, the unloading, erection and installation are generally to be provided by suitable specialist companies on site.

A weight reserve (min. 10 %) must be planned for transport and erection.



2. Preliminary work and erecting the vessel



Attaching the lifting gear (usually to the eyelets of the upper bottom and the lower transport structure) and lifting.

Removing the transport feet off the cylindrical part of the vessel (*spanner of size 24 required*).

Insulating the recesses with material provided (insulating material, drill, screws, cover plate with sealing tape).

Erecting the vessel, preferably with two cranes.

Removing the transport structure (I-beam) off the tube feet (*spanner of size 30 required*).

Repairing of coating flaws at the tube feet caused by transport and assembly with paint provided.



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3. Placement, alignment and anchoring on the concrete foundation



Placing the vessel on the foundation and marking of the drill holes.

Note:

With reference to the tolerances to be expected we strongly advise against drilling the holes in advance according to a drawing!

Note:

The supporting structure must be shimmed if necessary. Please observe the tolerances of the vessel and foundation.

Lifting up the vessel and drilling of the anchor holes in the foundation. Dropping of the vessel again, aligning and anchoring.

Note:

Upon request we provide in advance our calculation of the stability including the foundation load.

Note:

Differences in the diameter of the anchors and the holes in the supporting structure may have to be compensated by sufficiently large washers.



4. Finishing



Removing the lifting gear.

Mounting the provided insulating hoods for lifting eyes and manhole.

Note:

Consider our instructions on the walkability of the insulation!

Note:

The procedure shown also applies analogous to other designs, such as installation on a skirt support or vessels without insulation.

Notes

Provide sufficient personnel and tools for a quick installation and few costs of crane hours.

When installing several vessels of identical design, the use of a drilling template may be an economical aid, but must be planned in advance!

These are recommendations. The installation can be carried out differently depending on the project.

Our technical department will be pleased to answer your questions.

Please contact us:
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Usage instructions

The vessel was designed on the basis of AD 2000 Sheet B.

The vessel is designed for a maximum number of full load cycles (start up/shut down cycles) ≤ 1000 and any number of pressure variations with a variation range $< 10\%$ PS. Operation is permitted exclusively without gas cushion.

The testing and operating medium is water (heating water in accordance with DIN EN 14336 and VDI 2035).

This vessel was designed as an individual component as per our own design plans or as specified by the system manufacturer. The equipment supplier is responsible for preparing a detailed operating manual for the supplied vessel in the official language of the destination country.

The vessel should be commissioned and operated only by qualified staff.

The vessel should be integrated into the pressure maintaining system of the overall system before commissioning. Impermissible operating conditions, according to the information on the specification plate, should be prevented using appropriate measures (e. g., safety valves and safety temperature limiter), as these can irreversibly damage the vessel.

The vessel and its equipment should be secured such that they do not pose any risk to life and limb. Damage caused by external factors (e. g., impact or fire) should be prevented using suitable measures (e. g., impact protection and insulation).

When installing and assembling the vessel, loads should be applied only to the intended parts. Additional loads, e. g., through connected pipes, must be prevented. The installation surface should be horizontal and even. Additional measures (e. g., relining) must be carried out at the foundation if required.

Welding or heat treatment should not be carried out on the pressure-bearing walls of the vessel.

The periodic inspections of the vessel are not regulated by the manufacturer. If they are not regulated by the applicable national laws, their scope and frequency should therefore be defined by the operator.

The operating conditions are determined by the overall system. Please consult the responsible designer or operator in case of doubt.

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