

veenbrink | rvs

Your ideal partner in the process industry

- Quality
- Pressure Equipment
- Products & Services
- Industries



Your ideal partner in the process industry

Veenbrink RVS serves its customers with high-quality process equipment. Quality, expertise and commitment have been our daily core values for more than 30 years.



Quality is our priority

This is Veenbrink RVS's motto. Craftsmanship, knowledge and expertise lie at the foundation of a thorough design and product. Developments in the process industry are appearing in rapid succession. With our many years of experience and with passion, we help our customers acquire custom-made state-of-the-art machines and equipment.

We use a project-oriented approach for this purpose: from delineating the scope to a functional design and from the production of your machine up to and including the associated validation procedures. We are familiar with all relevant Good Manufacturing Practices (GMP) and Good Automated Manufacturing Practices (GAMP) standards and guidelines.

Quality assurance and safety are a high priority. During the design phase this means applying design standards and making structural calculations. In the production phase this translates into certified welding processes, performing non-destructive tests (NDT) and effective material traceability. All of this is carried out in accordance with the Inspection and Test Plan (ITP) and under the strict supervision of an independent notified body.

Industries

On the basis of our many years of experience, we contribute to virtually all process-oriented industries. This includes the pharmaceutical and food industries, as well as large and small companies in the chemical industry. Each branch has its own characteristics, interests and demands and this is precisely what makes our work so interesting.

Pharmaceutical

Within the pharmaceutical industry, Veenbrink RVS supplies process equipment for the preparation of aqueous, powdery and highly viscous media. The sterile preparation process must comply with strict criteria that require extensive knowledge of critical design guidelines such as GMP and GAMP. In addition to high finishing standards, validation documents and material traceability also play a major role.



Food & Beverage

Production processes are highly versatile in the food and beverage industry as well. Every product is unique and must be produced in its own particular way. Aside from a product's specific properties, hygiene plays an essential role in equipment design and production. Veenbrink RVS is familiar with all applicable EHEDG and other directives in this regard.



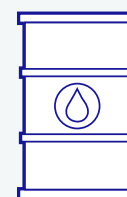
Dairy

Within the dairy industry, Veenbrink RVS is familiar with the production of all typical dairy processing equipment. We design and produce this equipment for processing raw milk, butter, cheese, yoghurt and other dairy-related products. Aside from hygiene, efficiency also plays a major role in view of the dairy industry's extensive product range.



Chemical

In the chemical sector everything revolves around a well-thought-out and above all safe design that meets all applicable laws and regulations. This is especially important because chemical processes often go hand in hand with high pressures and temperatures, which can result in dangerous situations. At Veenbrink RVS reliability and safety are always a priority in the design and production of pressure equipment.



Pharmaceutical

The pharmaceutical industry brings out Veenbrink RVS's strengths. This industry often makes use of pressure-sustaining process equipment with a high finishing standard, equipped with electronic controls, instrumentation, mixing technology, and heating and cooling processes: all complex facets that bring out Veenbrink RVS's strengths in its production of turnkey equipment.

Because the activities of pharmaceutical companies are related to human and animal health, medical equipment is subject to strict demands. Pharmaceutical companies are medical specialists, not mechanical engineers. Veenbrink RVS's strength is its ability to contribute ideas during the design and production of medical equipment. It takes the interests of the entire pharmaceutical value chain into account in this respect, ranging from operators to technical services and from engineering to the validation team.





Process Tanks

Veenbrink RVS specialises in tank and machine building within the process industry. We supply a wide range of process equipment designed to produce and store a diverse range of media. Separating, mixing or chemical reactions, with or without the aid of heating and cooling technologies, all are part of our available options. Furthermore, our preparation tanks are often fitted up with the necessary instrumentation for recording level, temperature, pressure and pH values. In addition, all required process connections for safety, cleaning, sampling or access and inspection are integrated. The right fittings and standards are applied depending on the specific application. In addition, Veenbrink RVS provides the complete electrotechnical controls for the preparation equipment and can supply fully integrated systems.

Modifications & Repairs

Your equipment may inadvertently become damaged during the production process and the preparation and storage of your media. In such situations you can confidently call on Veenbrink RVS's specialists. On request, tanks and components can be modified to the highest finishing standards. Installing additional connections or applying structural reinforcements also are among the available options. Naturally, our modified pressure equipment always complies with the applicable PED standards. Together with you, Veenbrink RVS ensures that the equipment is put back into operation as soon as possible should a production stop occur.



Hardware & Software

With electronics and instrumentation, you can transform a simple tank into an advanced piece of machinery. Veenbrink RVS has many years of experience producing fixed and mobile standalone units complete with all required hardware and software.

Electrics & Instrumentation

The electrical components are generally installed in a normal, rustproof steel electrical cabinet with a focus on the customer's requirements. Providing ATEX certified electrical cabinets and systems is also among the options available from Veenbrink RVS. The process equipment's operation can be implemented in various ways. The simplest solution is hardware-based with push buttons or regulators on the electrical cabinet. A PLC or SCADA solution can be selected to acquire additional options for regulating and monitoring programs and recipes.





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PHARMACEUTICAL EQUIPMENT



EMERGENCY STOP

RESET



Stirring & Mixing

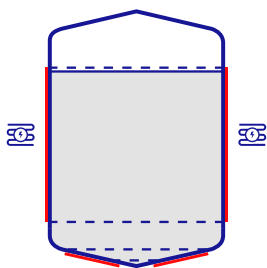
Virtually any industrial process depends entirely on having the raw materials properly stirred or mixed. Over the course of the years, Veenbrink RVS has specialised in a wide range of agitators. These are sometimes supplied by third parties, although generally we completely calculate, design and manufacture them ourselves. In choosing the right kind of agitator we make a distinction between stirring on the one hand and mixing on the other.



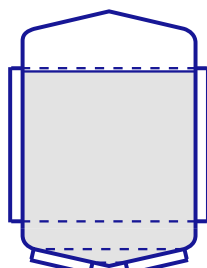
“ Important properties that must be considered are the required scale of agitation, RPMs, viscosity and shear force.

Heating & Cooling

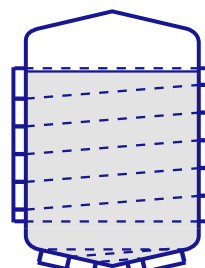
Heating and/or cooling a medium is essential for a process. Veenbrink RVS designs and produces high-quality heating and cooling mantles for any process and budget. This includes the use of electrically heated mats, pillow plates, or double wall mantles optionally equipped with a spiral.



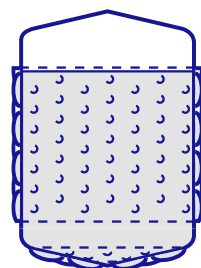
Electric Heating



Double Wall Jacket



Double Wall with Spiral



Pillowplate



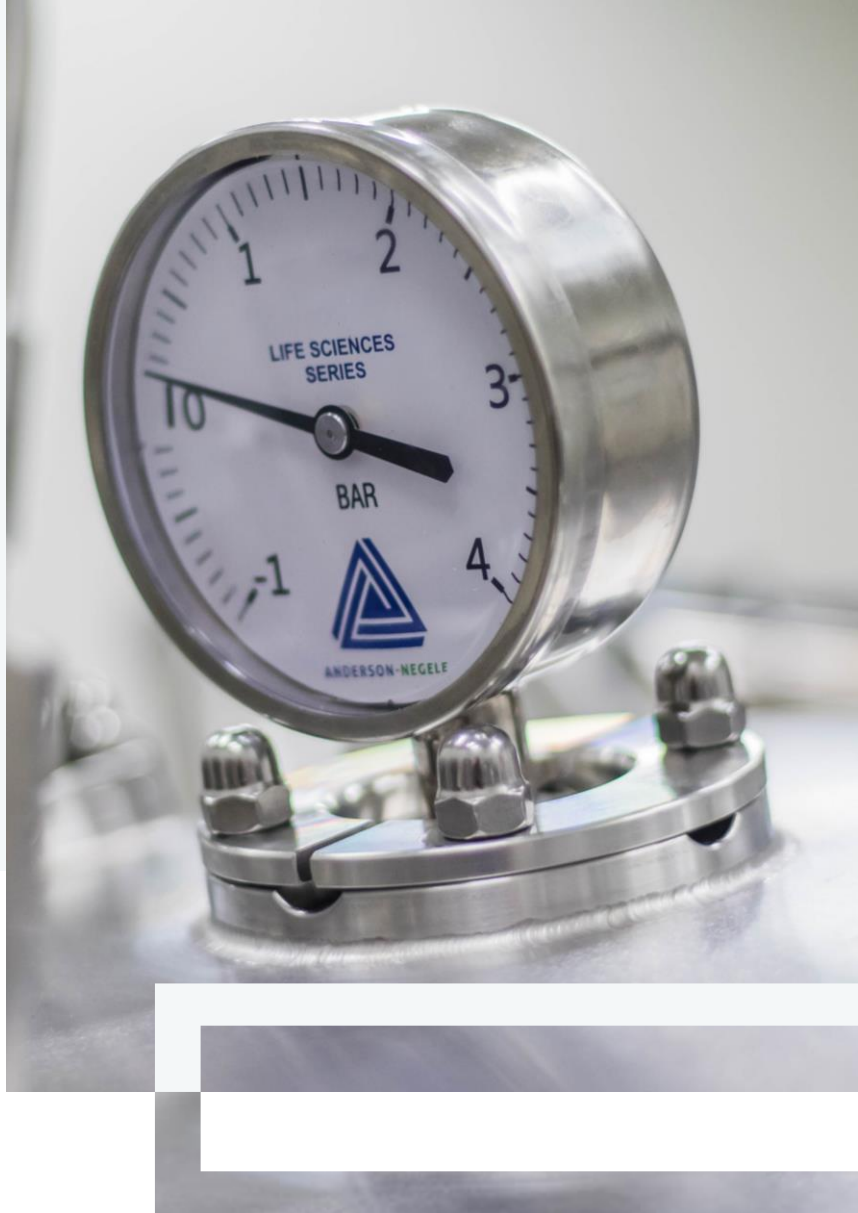
Accessories

Each process is unique and generally requires custom-made preparation and storage tanks. In addition, Veenbrink RVS provides all facets required to ensure your process runs structurally and efficiently. Special components can be machined to measure. In addition, piping, tools and frames can also be manufactured entirely in accordance with the user's wishes and needs.



Pressure Equipment

Separation and mixing processes may require high process temperatures and pressures. On the other hand, a production process itself can produce high process temperatures and pressures as well. Due to the hazards and risks associated with this, the production of pressure equipment is subject to strict laws and regulations as set out in the Pressure Equipment Directive (PED). To guarantee adherence to these laws and regulations, the design, production and non-destructive testing of pressure tanks is supervised by an independent registered notified body (NoBo). Veenbrink RVS specialises in the production of pressure tanks and is familiar with everything this involves. At Veenbrink RVS reliability and safety are always a priority in the design and production of pressure equipment.



CE Marking



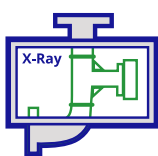
NoBo

Non-Destructive Testing

The structural calculations are performed on the basis of the design and process data. Potential defects in the process equipment are tracked down preventatively before they can cause any serious damage. We use non-destructive tests (NDT) to acquire insight into the reliability and integrity of our products. This way we guarantee the safe and reliable operation of your process equipment. Examples of non-destructive testing include visual inspection, X-ray inspection, penetrant inspection, ferrite testing, positive material identification, borescope inspection and hydrostatic pressure testing.



Visual inspection



X-ray inspection



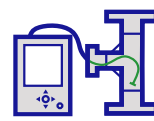
Penetrant inspection



Ferrite testing



Positive material identification



Borescope inspection



Hydrostatic pressure testing





Quality Management

Throughout the entire sales and design process up to production and delivery in-house, we maintain maximum grip on quality and guarantee that the solutions meet the highest possible standards. With smart staff and low personnel turnover, this has resulted in the high-quality products that we are known for among our customers and as a result of which they continue to come back to us. This experience, knowledge and expertise are furthermore secured in our quality management system.

Certified Welding Processes

Veenbrink RVS's many years of experience, knowledge and expertise have manifested itself in problem-free custom-made solutions for the customer over the years. Quality is also measurable, for that matter. Certifications are a key indicator in this regard. Veenbrink RVS has company-level welding method certificates, as well as certified welders. Furthermore, welding processes are characterised by a sophisticated system for managing materials and material certificates. In addition to processing all commonly used 304(L) and 316(L) materials and other materials of similar qualities, a wide range of exotic alloys, such as Duplex, Super Duplex, Hastelloy C276, Hastelloy C22, Nickel 200 and Incoloy 800 also are among our available options.



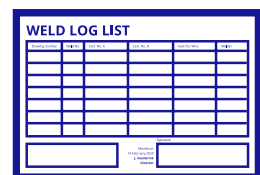
WPS



PQR



WPQ



Weld log list

Standards & Guidelines

We are familiar with all applicable standards and guidelines in the various sectors, including PED, GMP/GAMP, EHEDG, machine directives and design codes, such as EN13445, ASME VIII and AD2000.

Validation

Everything is dependent on an ingenious design. Even the smallest details matter here. The reliability and useability of the product is validated before, during, as well as after production. Validation is used to demonstrate and document that a process and system perform in accordance with specifications. This is why testing is a key activity throughout the entire validation process. For each specification or design phase there is a corresponding integration and test phase.

Acceptance: FAT & SAT

Failure of systems to perform well can result in dangerous situations, financial losses, damage and even loss of life. The objective of the Factory Acceptance Test (FAT) and the Site Acceptance Test (SAT) is to detect and remedy quality problems as early as possible in the process lifecycle. The FAT and SAT are acceptance tests. The supplier, as well as the user, has a major stake in the handover of new installations: the user wants an installation that is suitable for its targeted use and virtually problem-free during its operation, while the supplier aims to minimise aftercare costs. First, the FAT is carried out at Veenbrink RVS's location. After the FAT has been carried out and any defects have been remedied, the system is transferred to the customer location where it is integrated into other systems and networks.

Qualifications: DQ, IQ, OQ & PQ

While the FAT and SAT are classified as acceptance tests, the IQ, OQ and PQ concern qualification or user tests. FAT and SAT are sometimes also referred to as pre-qualifications and are used to effectively qualify the installation. Design Qualification (DQ) actually takes place before the process equipment is in fact produced. During Design Qualification the design is critically evaluated and approved at different stages, ranging from the conceptual design to a completely developed detailed design. Veenbrink RVS always provides an effective FAT with the objective of ensuring that the qualification tests proceed smoothly at the end user location. This not only saves costs, but it also limits commissioning elapsed time.



Documentation Management

Product handover in many cases goes hand in hand with the handover of the corresponding manufacturing report, also known as Vendor Documents. Like the product, Vendor Documents are also aligned with your requirements and needs as customer.

Mode of Operation

Veenbrink RVS uses a project-based approach. This is a conscious choice: our project managers are involved throughout the entire project and therefore know all of the project's ins and outs. This results in flexibility and the ability to quickly change gears when necessary.

Project Management



A project starts by documenting the scope of delivery. This comprises an intensive process in which the targeted product use is determined and all product requirements and needs are defined. In addition, all process data is identified. Among other things this includes the applicable design pressures, volumes, design temperatures, materials, loads, design codes and standards, testing groups and whether the process involves non-hazardous and/or hazardous substances. Veenbrink RVS's expert team reviews your wishes and requirements together with you and without any obligation provides you with a custom proposal.

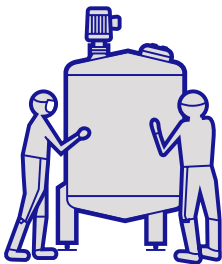
Design

To minimise the total elapsed time of a project, engineers submit drawings for your approval at different stages of the project. The engineer first prepares a Draft drawing. This Draft drawing consists of an initial design scheme with the basic geometry and is presented for approval. The objective of the Draft drawing is to prevent project slowdown due to an erroneous basic design. When this basic design is approved, the engineer develops a detailed design consisting of a For Approval drawing. The For Approval drawing consists of a detailed design with an overview of the applicable welding procedures, tolerances and welding details. The detailed For Approval drawing is also submitted for approval. Structural calculations, as well as the Inspection and Test Plan, are prepared. After the design has been approved, the required materials are organised and procured from permanent, recognised and reliable suppliers.



Production

Production is started on the basis of the approved drawings and the ITP. This is a streamlined process with a key focus on product quality and the management of material certificates and Welding Log lists. The product is manufactured using different shaping and welding techniques. The inspection and test plan, as well as the necessary non-destructive tests, is also carried out.



Testing, packing and transporting

The product is tested before, during, as well as after production. The product is at all times visually inspected after production. Depending on the customer's needs, additional tests can be conducted. After the product has passed all tests, it is packed and transported to the customer's desired location. Veenbrink RVS provides worldwide insured transport.







Our core values, mission and vision

Veenbrink RVS aims to contribute to a safer and healthier living environment for humans and animals as the leading supplier of custom process equipment worldwide. With this philosophy we serve the process industry with premium quality products.

Are you curious about the possibilities? Contact us without any obligation:

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We take pride in our work, which is why we would love to welcome you on location for a viewing or possible audit!



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