



# SOLUTIONS FOR THE CHEMICAL INDUSTRY



# WELCOME

## ABOUT US

As one of the world's leading manufacturer of stainless steel containers, THIELMANN delivers unsurpassed container expertise. The profound knowledge we've gathered in more than 275 years of container production and use, in a diverse range of industries, render us uniquely qualified to confidently and successfully tackle your business challenge.

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## HIGH CORROSION RESISTANCE MAKES HIGH-GRADE STAINLESS STEEL THE SMARTEST CHOICE FOR STORING AND TRANSPORTING CHEMICAL PRODUCTS

THE CHEMICAL INDUSTRY IS EXTREMELY DEMANDING AND INVOLVES EXHAUSTIVE CONTROLS AND CERTIFICATIONS. IT IS ABSOLUTELY ESSENTIAL TO OBTAIN RECIPIENTS AND CONTAINERS WHICH ENSURE MAXIMUM QUALITY AND SAFETY, AND WHICH KEEP THE CHARACTERISTICS OF THE CHEMICAL PRODUCTS WHICH THEY CONTAIN INTACT.

**An exhaustive industrial process where quality and safety controls are paramount requires storage containers which meet all of the requirements and regulations.**

At THIELMANN we manufacture our containers from top-quality, high-grade AISI 304 / AISI 316 stainless steel. They have been designed to meet the specific needs of customers from the chemical industry, including those who need to transport dangerous goods. The containers can be fully adapted to your processes and with maximum corrosion protection, their useful life is guaranteed at over 30 years. Furthermore, they are completely fireproof, contributing to guaranteeing the safety of your employees.

In this regard, we subject them to stress tests and a variety of validations, in addition to meeting quality assurance for pressurised containers with a CE marking or containers with UN/ADR approval for dangerous goods. We also offer ATEX and ASME certifications, as well as many others.

In any case, we would like to assure you that when you rely on THIELMANN, you are relying on a global engineering team, receiving a solution with a geometrically perfect design and, most important of all, we are ready to adapt to your specific needs.

### ADVANTAGES OF STAINLESS STEEL FOR THE CHEMICAL INDUSTRY

- Excellent isolation from external particles, pollution and oxidation
- Protects against temperature changes
- Barrier effect against ultraviolet (UV) light
- Maintains the properties of the chemical product intact
- Easy to transport and store

THIELMANN high-grade stainless steel containers manufactured for the chemical industry offer excellent resistance and protection against corrosion, UV light, oxidation and other external agents, as well as being ductile and highly efficient. A safe solution offering you assurance and peace of mind which is also 100% recyclable.

To find out more about how our high-grade stainless steel containers can add value to your products by simplifying their storage and transport, contact us with no obligation.

## INDUSTRY APPLICATIONS

### INORGANIC CHEMICALS (MINERALS, METAL POWDERS...)

Our stainless-steel containers are perfectly suitable for chemicals that lack both carbon and hydrogen. Inorganic chemicals are mainly divided into 4 types: acid, base, salt and water which can be easily transported in stainless steel containers. Generally, stainless steel is resistive from inorganic acids like nitric acid and phosphoric acid at normal temperatures. Specialist engineering solutions are required while handling inorganic chemicals at a higher temperature, higher residence time and/or higher concentration.

### SPECIALTY & FINE CHEMICALS

Specialty and fine chemicals are rare and expensive pure chemical substances that need perfect care and storage. THIELMANN high-grade stainless-steel containers assure the safety and integrity of such chemicals with airtight containment solutions. Other containers can cause deterioration of fine chemicals thus, they must be stored under specific high-grade steel containers which inhibits any reaction.

### POLYMERS (THERMOPLASTICS, THERMOSET, ELASTOMERS...)

The polymer is a matrix compound composed of many repetitive units. THIELMANN high-grade stainless steel containers are the best option for storage and transportation of solution polymers which are very sensitive in handling. Usually, solution polymers should be kept in an airtight stainless steel container at a temperature between 0°C to 40 °C to avoid freezing.

### DETERGENTS & CLEANING AGENTS

THIELMANN high-grade stainless-steel containers can store, transport and dispense detergent liquids or solid substances which combine with dust and impurities to clean it from the surface in the presence of water. Chemically they can be salts of sulfonic acid and carboxylic acid which are better handled in our stainless steel containers.

These are indicative applications you might use our containers for. The raw materials you work with will always be submitted for technical evaluation by our experts first. They will subsequently review and recommend the best containment solution to meet your needs based on residence time, temperature and concentration of your materials. Please contact us to check the suitability of your application.

### ORGANIC CHEMICALS (PETROCHEMICALS, POLYALCOHOLS, AMINES...)

Organic chemicals are a broad class of chemicals containing carbon and its derivatives. Our austenitic stainless steel containers provide safe and stable storage and transportation for many of the organic acid and base. Our containers are made with perfect care to handle gaseous, liquid and even solid organic chemicals. Our high-grade Stainless steel can handle many organic chemicals easily without creating a filtration issue. Specific types of stainless-steel resist a wide range of organic chemicals.

### ADHESIVES, COATINGS, LUBRICANTS, SEALANTS & SOLVENTS

Our stainless-steel containers are a prime choice to store adhesives and sealants used to stick objects or materials to each other. Lubricants can be easily handled using our certified pressure vessels, avoiding any loss of ingredients. We work with concrete kinds of stainless steel to transport and store solvents, which are liquid chemicals like water, ether or alcohol, for a long time.

### COSMETICS & FRAGRANCES

Stainless steel containers are most suitable for the storage and transportation of cosmetics as compared to other types of containers. Cosmetics are generally in the form of a gel, viscous liquid or solid which can be easily handled by using dedicated containers. Our wide range of containers has perfect geometries to ensure the good flowability of any type of substance and accurate dose dispensing.

### OTHER RELEVANT APPLICATIONS

- Biochemicals
- Agrochemicals
- Ion exchange

## CERTIFIED QUALITY

### RIGOROUSLY TESTED AND FULLY ACCREDITED STAINLESS STEEL CONTAINER SOLUTIONS

Now, more than ever before it is key that your container solutions carry the relevant certifications or approvals proving that they have met specific safety and quality standards. Quality control is a key part of our business, and thanks to our global reach we are well-versed in the international expectations demanded from us by our customers to achieve these certification requirements. We have many years of experience in managing these quality assurance processes with clearly defined practices,

documentation and control procedures which confidently deliver exhaustively tested and fully accredited certified solutions, delivering quality that is second to none. THIELMANN containers can be adapted to comply with all international markings and regulations, offering total assurance and peace of mind that our solutions have met the rigorous standards to assure quality, safety, and protection of the environment and human life.

### ISO 9001

Internationally recognized quality management system standard.

### UN APPROVAL

Regulation for the transport of dangerous goods.

### ATEX

Explosives Atmospheres. Explosion prevention and protection.

### NATIONAL BOARD "R" ND "NB"

Certified for the repair and/or alteration of boilers, pressure vessels, and other pressure-retaining items.

### ISO 3834-2

Quality certified for fusion welding of metallic materials.

### UL APPROVALS

(Underwriters Laboratories) Approval for electrical equipment used in the US.

### ADR

Transport by road.

### WHG

Certified to act as a specialist company in compliance with Germany's Water Resource Act.

### CE APPROVAL

According to Pressure Vessel Directive 97/23/ECC for fluid categories 1 (dangerous) and 2 (non dangerous).

### ASME "U" AND "T"

Certified for the manufacture of pressure vessels for transport in the US.

### AD 2000

Certified for the AD 2000 pressure vessel code in Germany.

### CAS

Registry Number® for chemicals.

### DOT

US Vibration tests.

### RID

Transport by rail.

### IMDG

Transport by sea.

Our technical team will assist you to guarantee that your products are safely stored and transported from the point of origin to the destination fulfilling all the requirements that apply to them. Please contact us to request further information about any certification or approval needed.

## SMALL INDUSTRIAL CONTAINERS

### ASME STAINLESS STEEL PRESSURE VESSEL

ASME PORTABLE STAINLESS STEEL PRESSURE VESSEL, DESIGNED FOR STATIONARY USE UNDER PRESSURE

THIELMANN General Purpose Pressure Vessel can be built in accordance with the requirements of the ASME Boiler and Pressure Vessels code and are designed for multiple applications. They are safe for use up to a maximum working pressure of 145 psi (10 bar), and are manufactured using only the highest quality stainless steel (AISI 304, up to AISI 316L/AISI 316 Ti).

THIELMANN Pressure Vessels represent the perfect solution for storing liquids under pressure, which are generally used for laboratory analysis and sampling purposes or for different testing procedures. They are available in several industry relevant (e.g. lubrication industry) sizes and specifications.

Equipped with an easy-to-handle oval handhole cover and a pressure relief valve, THIELMANN ASME General Purpose Pressure Vessels can also come equipped with an additional safety valve and/or a pressure gauge on request.

 **VOLUME**  
3.8 - 200 Liters / 1 - 53 Gallons

### MULTIPURPOSE VESSELS

FLEXIBLE CONTAINER SOLUTION AVAILABLE IN MANY DIFFERENT SIZING FORMATS

THIELMANN Multipurpose Vessels are suitable for products which do not require any specific certification. As such, this renders them the ideal versatile solution for customers who require a flexible high quality container suitable for a multitude of different applications.

The main advantage of the THIELMANN Multipurpose Vessel is the vast range of flexible customization options available. For example, they can be constructed using either AISI 304 or AISI 316L/316Ti high quality stainless steel depending on your requirements, and are also available in many different capacity formats from 0.6 - 66 gallons (2.5- 250 Liters). The different diameter sizing options range from 216mm - 550mm.

Due to their customizable nature you can create a truly unique high quality container solution for use within a myriad of industries.

 **CE** **VOLUME**  
2.5 - 250 Liters / 0.6 - 66 Gallons




## CE PRESSURE VESSEL FOR HIGH PURITY APPLICATIONS

CE STAINLESS STEEL PRESSURE VESSEL, DESIGNED FOR STATIONARY USE UNDER PRESSURE

With decades of experience in the production of stainless steel containers and drums, THIELMANN confidently designs and delivers customized products.

Our portable stainless steel pressure vessels are manufactured using only the highest quality stainless steel (AISI 304, up to AISI 316L) can be built in accordance with the requirements of CE.

If required, the surfaces of our pressure vessels and containers can be treated with electro polishing, in this process, metal is removed ion by ion from the surface of the object via electrolysis. As a result, the surface of the metal is microscopically featureless, with not even the smallest speck of a torn surface remaining, this therefore avoids the deposit of any material whatsoever.

 **CE** **VOLUME**  
From 5.7 to 120 Liters / 1.5 - 32 Gallons



## PORTABLE PRESSURE VESSEL TROLLEY

ALLOWING YOU TO MOVE PRESSURE VESSELS AROUND YOUR FACILITY WITH EASE

THIELMANN Portable Wheeled Pressure Vessel Trolleys provide a safe and convenient solution for the transport of pressure vessels around your facility with ease. They are constructed using high quality stainless steel, safeguarding your delicate cargo under pressure from UV light as well as external impurities and sudden temperature changes.

THIELMANN's state of the art manufacturing processes ensure a superbly built final product which is durable, easy to handle and simple to clean and maintain.

Our Portable Wheeled Pressure Vessel Trolleys are available in a standard capacity format of 5 gallons (19 liters) with a diameter of 216mm, however on request can be customized to any desired size or capacity format, and can also be purpose built to your specific requirements, along with a whole host of further personalization options.

 **CE**  **VOLUME**  
19 - 100 Liters / 5 - 26 Gallons



## ION EXCHANGE VESSELS

### CE APPROVED VESSEL FOR WATER SOFTENING AND ION EXCHANGE

Pressure vessels are the holding vessels for ion exchange resins and can play an integral part of most water treatments systems. These pressure vessels are an essential component within the Water Treatment Industry to ensure impeccable water softening and demineralization.

Our Water Treatment Pressure Vessels are manufactured using only the highest quality stainless steels (AISI 316Ti) and can be used at varying temperatures and pressures. These vessels are designed to be filled with the correct resin mixture in order to remove ions from the water.

THIELMANN supplies ion exchanger solutions in stainless steel that perform desalinization, decalcification and decarbonizing tailor-made to your specific business needs.

THIELMANN. Your preferred industrial partner for custom-made pressure vessels.



## LUBRICANT CONTAINER

### UNIQUELY DESIGNED CONTAINERS FOR THE STORAGE, TRANSPORT AND DISPENSING OF LUBRICANTS, OILS AND ADDITIVES

Our uniquely designed containers provide an ideal package for the storage, transport and dispensing of high-end lubricants, oils and additives used in several important industries.

Whether you are the producer of specific fluids for vehicles (land, sea, air) or for any machinery used in the industrial or domestic sectors, THIELMANN provides you with the best container expertise and engineering know-how.

Manufactured in stainless steel AISI 304 and 316 (other grades available upon request), THIELMANN reusable containers are designed and built to last. Thanks to specific seals and extractor valves made of viton and other corrosive resistant materials, our certified containers (UN, ADR/RID, IMDG, IATA, to name a few) provide the best protection for your premium oil, lubricant or additive.



## HAZARDOUS STORAGE & TRANSPORT VESSEL

### UN APPROVED VESSEL SUITABLE FOR MANY APPLICATIONS, INCLUDING ASME APPROVED STORAGE, FILLING AND EMPTYING

THIELMANN UN Vessels for hazardous products are constructed using high quality stainless steel (AISI 304, up to AISI 316L) and are designed for the storage and transportation of dangerous goods, and other products commonly used within the Oil & Biofuel, Biotechnology, Chemical, Health & Beauty, Pharmaceutical, Hygiene, Semi-Conductor, Food, Pulp & Paper and Power Generation industries.

They are suitable for applications under pressure, including stationary filling and emptying, and as part of our extensive customization options, THIELMANN UN Approved Stainless Steel Vessels can be built in accordance with the requirements of CE or the ASME Boiler and Pressure Vessels code.



## CHEMICAL CONTAINER

### UN APPROVED CONTAINER FOR THE TRANSPORT AND STORAGE OF DANGEROUS MATERIALS AND LIQUIDS

Our containers and drums are designed and purpose built for use with ADR/RID hazardous substances I, II, and III (X/Y/Z). We are also able to provide certifications in line with IMDG, ICAO and DOT compliance.

Our pressure resistant stainless steel containers are designed for UN hazardous material transport and storage of flammable liquids (class 3), flammable solids (class 4), oxidizing substances and organic peroxides (class 5), toxic substances (class 6.1), corrosive products (class 8) and other substances (class 9).

Depending on your specific requirements, the surfaces of our pressure vessels and containers can be treated with electro polishing. In this process, metal is removed ion by ion from the surface of the object via electrolysis. As a result, the surface of the metal is microscopically featureless, with not even the smallest speck of a torn surface remaining, thus avoiding the deposit of any material.



# INTERMEDIATE BULK CONTAINERS - IBCS

## IBCS FOR LIQUIDS

### METERCUBE IBC CONTAINER

#### CUBIC IBC FOR LIQUIDS WITH OPTIMAL SPACE UTILIZATION

MeterCUBE Cubic Container features ideal cleaning geometry, residue-free emptying, is non-permeable and unbeatable service life. The MeterCUBE made of stainless steel meets all your requirements.

Our striving for quality and perfection ensures the highest possible degree of safety and lifespan. Your requirements and our pioneer culture give rise to customized, innovative products made of stainless steel.

Cost-efficient, cubic IBC for liquids with optimal space optimization.



### CUBICAL CONTAINER LTP

#### CUBIC IBC FOR LIQUIDS

LTP cubic container features ideal cleaning geometry, residue-free emptying, is non-permeable and unbeatable service life. With great variety in sizes and non-wearing construction which allows continual re-use, the LTP Cubic Container made of stainless steel meets all your requirements.

Our striving for quality and perfection ensures the highest possible degree of safety and lifespan. Your requirements and our pioneer culture give rise to customized, innovative products made of stainless steel.



### TPN CUBICAL IBC CONTAINER

#### CUBIC IBC FOR STORAGE AND TRANSPORT OF LIQUIDS WITH PROTECTING FRAME

The robust construction allows long-standing performance as a reusable container. With great variety in sizes and non-wearing construction which allows continual re-use, the TPN container made of stainless steel meets all your requirements.

Our striving for quality and perfection ensures the highest possible degree of safety and longevity. Your requirements and our pioneer culture give rise to customized, innovative products made of stainless steel. This product is also available to rent.



### CYLINDRICAL CONTAINER IBCZN

#### CYLINDRICAL IBC FOR LIQUIDS

The robust construction allows long-standing performance as a reusable container. With great variety in sizes and non-wearing construction which allows continual re-use, the IBCzN container made of stainless steel meets all your requirements.

Our striving for quality and perfection ensures the highest possible degree of safety and lifespan. Your requirements and our pioneer culture give rise to customized, innovative products made of stainless steel.



### CYLINDRICAL CONTAINER LATERAL OUTLET IBCZ-LO

#### CYLINDRICAL IBC FOR LIQUIDS WITH A HANDY CORNER OUTLET VALVE

The new THIELMANN cylindrical container is here offering an improved design along with an impressive 90kg weight reduction.

The optimized re-design of the IBCz-LO means that it is suitable for a multitude of applications, because it combines clean design, with the durability required to fulfill the demanding requirements that UN approved vessels for dangerous goods need to meet. Minimizes the overall weight without compromising on safety.



## ELECTRIC HEATABLE CONTAINER ZBEI

ELECTRICALLY HEATED IBC FOR TEMPERATURE SENSITIVE AND POOR FLOWING LIQUIDS

ZBEI electrically heatable container features optimal product temperature, ideal cleaning geometry, residue-free emptying, and is non-permeable. With great variety in sizes and non-wearing construction which allows continual re-use, the ZBEI container made of stainless steel meets all your requirements.

Our striving for quality and perfection ensures the highest possible degree of safety and longevity. Your requirements and our pioneer culture give rise to customized, innovative products made of stainless steel.



## HORIZONTAL TANK CONTAINER TCL

TANK CONTAINER FOR HIGH-HAZARD LIQUIDS

TCL tank containers feature ideal cleaning geometry, residue-free emptying and is non-permeable. With great variety in sizes and non-wearing construction which allows continual re-use, the TCL containers made of stainless steel meet all your requirements.

Our striving for quality and perfection ensures the highest possible degree of safety and longevity. Your requirements and our pioneer culture give rise to customized, innovative products made of stainless steel.



## VERTICAL TANK CONTAINER TCS

TANK CONTAINER FOR HIGH-HAZARD LIQUIDS

TCS tank containers feature ideal cleaning geometry, residue-free emptying and is non-permeable. With great variety in sizes and non-wearing construction which allows continual re-use, the TCS containers made of stainless steel meet all your requirements.

Our striving for quality and perfection ensures the highest possible degree of safety and longevity. Your requirements and our pioneer culture give rise to customized, innovative products made of stainless steel.



IBCS FOR BULK SOLIDS

## BULK CONTAINER BPO

IBC FOR BULK MATERIALS WITH SELF-SUPPORTING DESIGN

BPO features ideal cleaning geometry, residue-free emptying and is non-permeable. With great variety in sizes and non-wearing construction which allows continual re-use, the BPO bulk material container made of stainless steel meets all your requirements.

Our striving for quality and perfection ensures the highest possible degree of safety and longevity. Your requirements and our pioneer culture give rise to customized, innovative products made of stainless steel.



## BULK CONTAINER BP

IBC FOR DANGEROUS POWDER AND BULK SOLID MATERIALS

BP Bulk Container features ideal cleaning geometry, residue-free emptying and is non-permeable. With great variety in sizes and non-wearing construction which allows continual re-use, the BP bulk material container made of stainless steel meets all your requirements.

Our striving for quality and perfection ensures the highest possible degree of safety and longevity. Your requirements and our pioneer culture give rise to customized, innovative products made of stainless steel.



OFFSHORE CONTAINER

## OFFSHORE CONTAINER SYSTEM

DNV CERTIFIED FRAME TO SAFELY OFFSHORE TRANSPORT IBC SYSTEMS

The THIELMANN offshore container system with DNV frame has been designed to offer the safest solution for the storage and transportation of chemicals for oil and gas drilling operations. It can carry between 1-3 Intermediate Bulk Containers (IBCs) per frame, and is built to resist the corrosive effects of sea water.



## PORTABLE TANKS

### T14 PORTABLE TANKS

THE HIGH PRESSURE SAFE CONTAINERS FOR THE TRANSPORT OF HAZARDOUS LIQUIDS

THIELMANN T14 portable tanks are made of high quality stainless steel with 6mm shell thickness. They are able to transport dangerous goods Class 3, 4.3, 6.1 y 8 via road, rail and sea.

Our small portable tanks are designed to comply with the requirements of most international compliance codes, including:

- IMDG
- RID / ADR
- T CFR49
- Customs Convention - TIR
- US DOT CFR49
- ISO standards

#### VOLUME

450, 1100, 2500 Liters / 118, 290, 660 Gallons



### T22 PORTABLE TANKS

THE BEST FIT FOR THE SAFE TRANSPORT OF HAZARDOUS LIQUIDS UNDER HIGH PRESSURE

THIELMANN T22 Portable Tanks are constructed using high quality stainless steel (316L or 316Ti) and come equipped with a 10mm shell thickness.

They are purpose designed to meet most international requirements for transportation, including:

- IMDG/ADR
- US DOT CFR49
- Customs Convention - TIR
- ISO standards

THIELMANN T22 mobile containers are suitable for the transportation of dangerous goods as categorized in classes 4.2, 5.1, 6.1 and 8, by road, rail and sea.

#### VOLUME

450, 1100, 2500 Liters / 118, 290, 660 Gallons



## TANK CONTAINER SOLUTIONS

### ALKALI STORAGE AND TRANSPORT TANK

#### ALST RANGE

THIELMANN has been delivering specialized units for the storage and transport of alkalis in any supply-chain for over 40 years. Sensitive cargoes can be protected by heating/cooling systems as required, together with other safety equipment, such as burst-pressure blow-o discs.

#### SUITS PRODUCTS

Diverse organic and inorganic liquid acid compounds.



### INORGANIC CHEMICAL STORAGE AND TRANSPORT TANK

#### SAFE STORAGE AND TRANSPORT OF TOXIC AND AGGRESSIVE CHEMICALS

THIELMANN provides safe storage and transport solutions for some of the most toxic, corrosive and aggressive liquid inorganic chemicals on the market. From liquid bromine to aggressive chlorine compounds, THIELMANN provides the right combination of materials and excellent workmanship to handle dangerous elements and compounds.

It has a capacity of 8,350-liter and is approved for the safe transport by road, rail, or sea. This 20-ft x 8-ft x 8-ft intermodal ISO tank container is manufactured from high grade, pressure vessel quality, steel, SA 516 GR 70N, and is lined with lead for corrosion resistance.

#### SUITS PRODUCTS

Liquid inorganic chemicals and compounds, highly corrosive liquids, toxic and aggressive chemicals, acids.





## ORGANIC PEROXIDES CONTAINER T23

SECURE, INSULATED AND TEMPERATURE CONTROLLED TANK CONTAINER SOLUTION FEATURING INDEPENDENTLY CONTROLLED HEATING AND COOLING SYSTEMS

The tank comes equipped with two independently operated heating and cooling devices each, which maintain the safe and secure operation of each container in the event of a failure of one unit. This also provides the facility to transport cargoes in a temperature range controlled to +/- 4°C, also guaranteeing the quality of transported goods.

This special tank container for organic peroxides transportation features high quality insulation, with PU foam and stainless steel cladding. It has the customizable option of adding surge baffles, depending on your unique requirements.

### VOLUME

19000 Liters / 5026,45 Gallons



## CHEMICAL SLUDGE CONTAINER

FLEXIBLE AND SECURE SOLUTION FOR THE CHEMICAL AND WASTE MANAGEMENT INDUSTRY

Chemical Sludge Container is dedicated for use within the Recycling and Chemical Industry as a solution for the removal of landfill sludge, contaminated sludge, as well as contaminated leachate with solids and suspended solids, with T Code T7.

The tank is designed for certain solids, crystallizable or high viscosity substances and is ideal for use in the processes of removing contaminated chemical sludge and for soil and surface remediation. It also conveniently features a hook arm system for changing truck superstructures.

### VOLUME

19000 Liters / 5026,45 Gallons



## ENVIRONMENT PROTECTION CONTAINER

HEATABLE AND COOLABLE WHG APPROVED STAINLESS STEEL CONTAINER DESIGNED FOR THE STORAGE AND TRANSPORT OF INTERMEDIATE CHEMICAL PRODUCTS

The Environment Container is a special tank purpose built for the safe containment and transport of chemicals, according to T Code T20. It features a secure and robust double-walled tank and an integrated leakage monitoring system designed to detect and avoid accidental leakages.

Whilst being stored, chemicals can be steam heated or cooled through a system in the inner tank jacket before being allowed to flow back into the usual production processes. The container can also be used for the recording of residual quantities and for decanting purposes.

### VOLUME

7000 Liters / 1981,48 Gallons



## HOOK ARM FUEL STATION

IDEAL FOR USE WITHIN FIRE PREVENTION FACILITIES, DURING EMERGENCY OPERATIONS AND ON COMPANY PREMISES

The THIELMANN Hook Arm Fuel Station is a flexible fuel filling and containment solution which can be operated either remotely from a truck or stationary. The station is ideal for use at locations without the necessary infrastructure for safe and secure fuel filling and storage, thanks to its self sufficient and completely autonomous operation.

The double shell is designed to protect against pollution to the external environment, catching up cargo in case of a leakage of the inner tank. As an approved WHG container, it includes a leakage monitoring system that provides an alarm and a chip system that can calculate and automatically invoice individual quantities delivered.

### VOLUME

5750 Liters / 1521,16 Gallons



## SPECIALIST SOLUTIONS

FOR SPECIALIST APPLICATIONS WITH UNIQUE REQUIREMENTS, THIELMANN OFFERS A DESIGN AND MANUFACTURING SERVICE

**Whether you need deep customization of an existing product or a new 'clean sheet' design, THIELMANN engineers can design, manufacture, test and certify solutions that 100 percent meet your needs.**

Flexible enough to work with any design parameters, we can provide specialist solutions in single or double-walled designs within standard ISO or non-ISO frames. Materials can include carbon, stainless steel (V2A / V4A) in all grades, hastelloy, nickel and titanium.

For customers operating with acids and/or alkalis, we can produce tank container solutions with an inner lining, including ChemLine, Proco-EMAIL, Säkaphen; FA, FEP, Teflon along plastic coatings; special interior lacquers; lead linings; and glass-enamel coatings.



# POWDER HANDLING SYSTEMS

## CONE VALVE TECHNOLOGY

### ADVANCED CONE VALVE SYSTEM

ADVANCED CONE VALVE SOLUTIONS FOR DIFFICULT TO FLOW BULK MATERIALS WITH ADVANCED CLEANLINESS REQUIREMENTS

The THIELMANN advanced cone valves offer an operational advantage when working with poor flowing and sticky bulk materials that have high cleanliness requirements.

Our technical experts will match your bulk material with the right advanced cone valve solution to eliminate bridging, rat-holing and segregation during operations.

Ensure precise dosing and discharge every time with zero cross-contamination.

THIELMANN advanced cone valves are designed to be safe, hygienic and easy to use. They can be controlled manually or via fully automated process to ensure precise dosing every time.

### CHEMICAL CONE VALVE SYSTEM

CHEMICAL CONE VALVE SOLUTIONS FOR DOSING AND DISCHARGING OPERATIONS WITH DIFFICULT TO FLOW BULK MATERIALS

The THIELMANN chemical cone valve offers an operational advantage when working with poor flowing and sticky bulk materials.

Our technical experts will match your bulk material with the right cone valve solution to eliminate bridging, rat-holing and segregation during operations.

THIELMANN chemical cone valves are designed to be safe, modular and easy to use. They can be controlled manually or via fully automated process to ensure precise dosing every time. Speak to a THIELMANN expert today to find the chemical cone valve solution to meet your unique requirements.



## BUTTERFLY VALVE TECHNOLOGY

### BUTTERFLY VALVE SYSTEM

BUTTERFLY VALVE SYSTEMS ARE THE BEST OPTION FOR NON-HAZARDOUS, EASY FLOW MATERIALS WITHOUT HIGH CLEANLINESS REQUIREMENTS

For the easy transfer of non-hazardous bulk materials with good flowability between container and receiving unit, THIELMANN butterfly valves are suited to a range of applications and industries.

Our butterfly valve systems can be manually, semi-automatically or full-automatically operated, giving operators maximum flexibility for their powder bulk handling operations.

Principal areas of application for the butterfly valve systems are non-hazardous, easy to flow bulk materials for operations where high levels of cleanliness are not a primary concern.



### SPLIT BUTTERFLY VALVE SYSTEM

FOR OPERATIONS WHERE CROSS-CONTAMINATION AND THE CONTAINMENT OF DUST AND PARTICLES IS A CENTRAL CONCERN

THIELMANN split butterfly valve systems are designed to meet and exceed the rigorous requirements of industries that require the very highest quality solutions for the transition of materials between container and receiving unit, particularly where highly hazardous bulk materials are in use, or where the product needs to be protected from external agents, as in the Pharma industry.

For the safe and contamination-free transfer of products between container and receiving unit, THIELMANN split butterfly valves control dust and other materials for a safe operating environment, and ensure the integrity of the end product.

Principal areas of application are highly hazardous or delicate, easy to flow bulk materials where contamination levels must be kept to a minimum, and high cleanliness is paramount.





## SERVICES OVERVIEW

FROM MAINTENANCE TO REPAIRS AND CERTIFICATIONS, AND EVEN FINANCING SOLUTIONS, HERE AT THIELMANN WE WANT TO TAKE THE HARD WORK OUT OF MANAGING YOUR CONTAINER FLEET.



### SERVICES FOR IBCS

Your trusted global partner for cleaning, maintenance and testing.

Proper maintenance and repair of your container fleet is essential to its performance, safety, uptime, and longevity.

As a company specializing in comprehensive large IBC packaging services, you can receive all services, from a single source, leaving you to focus on your core business whilst ensuring a reliable and cost-effective supply chain of clean and functioning IBCs for your customers.

Take advantage of our professional services:

- Cleaning of reusable hazardous and non-hazardous goods containers (IBCs)
- Maintenance, revision and repair of all types of metal IBCs
- Approved inspection body for statutory tests
- On-time pick-up and delivery logistics

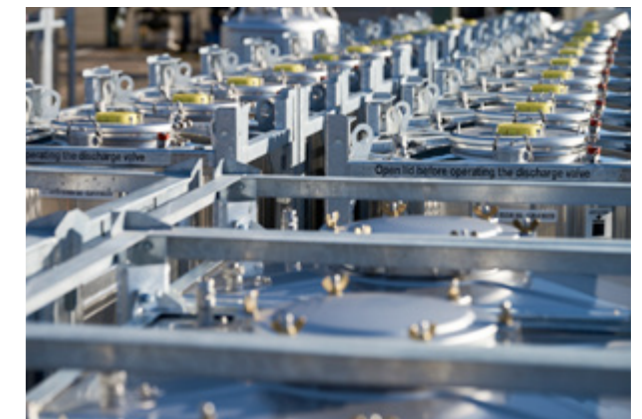


### SERVICES FOR TANK CONTAINERS

Our systems are operated in some of the harshest environments, frequently used by operators who may not be fully conversant with the system design. **Field service support, periodic upgrades, design and safety** case reviews form a critical element of THIELMANN's integrated service package.

We provide an exceptional standard in bespoke support solutions (for our own products as well as third party products) which include:

- Post design services
- Contractor logistics support
- Contracting for availability
- Operator and maintenance training (web-based training and virtual reality simulations)
- Spares
- Codification
- Obsolescence management
- Regeneration and upgrades



### IBC RENTALS

In reaction to a surge in market demand, THIELMANN has got your business covered with its range of standard IBCs, in stock, and now available to rent. Our offer includes renting and leasing from short to long-term, and sale/ lease back agreements.

- Flexibility: containers when and where needed, with the latest technology, allowing you to benefit from seasonal surges in demand and production.
- Quick delivery: the right container for the right product, delivered at short notice thanks to our large stock.
- Financial benefits by reserving valuable lines of credit for other growth opportunities.

Standard IBCs available for rent can be customized with different discharge valves depending on your connections, and labelled or customized with a sticker with your brand's name.



### BUYING AND SELLING SERVICES

Whether you need to dispose of your old containers or are considering buying second-hand ones, we are confident that our 360 services will have the solution for you:

- Purchasing of already-used containers from our customers, including kegs, IBC, and tank containers which we then, depending on the condition, either scrap or recondition and re-sell.
- We also offer to sell second-hand containers to our customers, which we ensure have met our own very high standards, in a wide range of sizes, specifications, and conditions.

### FINANCIAL SERVICES

THIELMANN offers customized financial solutions to meet your business objectives. Whether you're a small company or a large corporation, we have the resources and know-how to help your business to develop and expand.



# WHY THIELMANN?

Here at THIELMANN we endeavor to be the best at whatever we do, and with the reach of our global network we are fortunate that we can respond to change rapidly without causing disruption to our customers. Our commitment to the success of our customers combined with our unrivaled expertise render us the ideal partner for your container requirements. The THIELMANN team is a passionate and dynamic force which doesn't shy away from challenges - in fact we relish them!

Challenge us - and we'll confidently meet and exceed your expectations.



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