

# Process & Pressure Vessels

Innovative Environmental Process,  
Emission & Air Pollution Control Equipment  
Manufacturing and Engineering Company





Engineering  
Know-How of  
**40**  
Years



# Who are we?

Äger is an innovative environmental process, emission & air pollution control equipment manufacturing and engineering company that started its journey in München, Germany. With 4 international branch offices, Äger covers more than 150 countries.

With 40 years of experience, Äger is in a leadership position in manufacturing better, safer, and more economical products for storage tank equipments and pressure vessels & process solutions.



## Process & Pressure Vessels

As a single source for plug-and-play systems, ERGIL can reduce your project cost and time drastically.

We can reduce your site activities and reduce your risk by supplying single or multiple units from our world-class manufacturing facility.



## Emission Control & Safety Solutions

Storagetech™ manufactures storage tank equipment, such as flame arresters, breather valves, gauge hatches, floating roofs, and floating suction pipes.

Storagetech™ also provides many other products for the industrial solutions as keyturn packages including fire fighting systems.



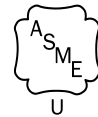
# Quality Management System



ERGIL's quality policy is based since its establishment on the value to offer the best quality of products and services to national and international markets.

In order to ensure the continuity of being a world-renowned company that believes in unconditional customer satisfaction, administrative regulations published by all its stakeholders and other conditions regarding its activities are followed by us.

ERGIL increases efficiency in all its processes in line with its continuous improvement approach.



ERGIL attaches importance to encouraging innovative and creative approaches and conducting training that will increase technical and behavioral competencies.

Innovation is therefore another important aspect of ERGIL.

The research and development process of ERGIL is proven with more than 40 certain types of certificates such as ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, EN 1090-1, EN 3834-2, ASME U, S, R Stamp, and CE/ ATEX certificates.

All certification progresses have been completed by the witness of the third party agencies. TUV Nord, TUV Austria, Breau Veritas.





# Sustainable Production Technologies

## Lean Manufacturing & 5s

The protection of life, food sources, and other aspects of the earth is also one of the ERGIL's key objectives.

Their social responsibility awareness, which is mirrored in their products as well, includes lowering carbon emissions, preserving ecological integrity, and helping to build a sustainable and safe future.

In accordance with this philosophy, we use lean production methods in all our production facilities. Thanks to this method, we minimize elements such as error, cost, stock, labor, development process, production site, waste.

## Sustainability

The understanding of sustainability and social responsibility grows as a result of globalization.

When it comes to combating global warming and promoting sustainable development, renewable energy is one of the fundamental components for all sectors. From the start of its journey, ERGIL as an Aager brand focuses on appropriate solutions for the environment and sustainable energy.

The brand's product line is designed to use less energy and offer environment-friendly progresses.



# Experience

<b>Client Name:</b>	BP	Engineering, procurement, and construction of 8000 m3 con- creted covered, steel storage tank to drain the oil from BTC pipeline in case of emergency and supporting facilities.
<b>End User:</b>	BTC Pipeline Company	
<b>Project Name:</b>	Emergency Drain Down Facility	
<b>Location:</b>	Georgia	
<b>Client Name:</b>	KBR/Halliburton	Engineering, design and fabrication of 1 no 5000m3 alu- minum dome roof and 1 no 5000m3 external floating roof storage tank along with all consumables fittings, accessories and erection equipment.
<b>End User:</b>	Minisrt of Oil, Iraq	
<b>Project Name:</b>	Basra Airport Storage Facility	
<b>Location:</b>	Basra, Iraq	
<b>Client Name:</b>	Azerbaijan Methanol Company	Engineering, design and installation of complete semi automatic fire fighting system, 56m dia storage tank internal floating and complete storage tank equipment.
<b>End User:</b>	Azerbaijan Methanol Company	
<b>Project Name:</b>	Karabag Methanol Plant	
<b>Location:</b>	Baku, Azerbaijan	
<b>Client Name:</b>	Shell	Engineering, design and fabrication of GOST certified 52" Pipeline test heads, pig traps and handling system.
<b>End User:</b>	Shell Russia	
<b>Project Name:</b>	Sakhalin	
<b>Location:</b>	Sakhalin, Russia	
<b>Client Name:</b>	Total E&P	Engineering, design and fabrication of complete skid mount- ed 360 bar 6 nos pig launcher and reciver system.
<b>End User:</b>	Total E&P	
<b>Project Name:</b>	KHARIR Well Development	
<b>Location:</b>	Yemen	
<b>Client Name:</b>	Shell	Engineering, design and fabrication of complete skid mount- ed 360 bar 12 nos pig launcher and reciver system. Including valves, transmittals, interlocks.
<b>End User:</b>	Shell	
<b>Project Name:</b>	Majnoon Oil Field	
<b>Location:</b>	Majnoon, Iraq	
<b>Client Name:</b>	Petronas	Engineering, design and fabrication of complete skid mount- ed 8 nos pig launcher and reciver system. Including valves, transmittals, interlocks and pig handling systems.
<b>End User:</b>	Petronas	
<b>Project Name:</b>	Garraf Oil Field	
<b>Location:</b>	Garraf, Iraq	
<b>Client Name:</b>	Schlumberger	Engineering, design and fabrication of complete fuel tans with dike.
<b>End User:</b>	Schlumberger, Iraq	
<b>Location:</b>	North, Iraq	
<b>Client Name:</b>	GAZPROM	Engineering, Design and Fabrication of Gasboot , Knock Out Drums , Oil, Gas & Water Separators With High Pressure and ASME U certifications.
<b>End User:</b>	GAZPROM	
<b>Project Name:</b>	Gazprom Sarqala Project	
<b>Location:</b>	Northern Iraq	

**Client Name:** RPMINERALS  
**End User:** RPMINERALS  
**Project Name:** Barite & Bentonite Processing Facility  
**Location:** Turkey

Mechanical Engineering & Fabrication of CS and high alloy steel grades 304L and 316L of Heat Exchangers, Chemical Process Vessels , Reactive Distillation Column, re boilers , Chemical reactor.

**Client Name:** ENI  
**End User:** ENI & SOC  
**Project Name:** Zubair Oil Field Development Project  
**Location:** Turkey

Engineering & Fabrication of ASME desgin FLOW TANK DEGASSER, API 650 Stroge Tanks ,TANK EQUIPMENT , Cathodic Protection System.



**40**  
YEARS  
OF EXPERIENCE



**5 MAIN**  
OFFICE



**35.000**  
SQUARE METER  
MANUFACTURING  
SPACE



**300+**  
EMPLOYEES



**200+**  
DIVERSE RANGE  
PRODUCTS



**30+**  
INTERNATIONAL  
REPRESENTATIVES



**QUALITY**  
CERTIFICATES



**AT 4**  
REGIONS





# In-House Engineering

## Multidisciplinary Engineering

The offices of ERGIL in Dubai and Istanbul provide support for its employees everywhere.

According to API, ASME, EN, DIN, and Gost standards, ERGIL is capable of designing small or large atmospheric or pressurized storage tanks and pressure vessels using 2D and 3D design tools, including AME-Tank, PV Elite, Compress, PDMS, Solidworks, ANSYS, Inventor, Bentley and many more.

Utilizing certified modern computer-aided engineering (CAE) and computer-aided design (CAD) software supports businesses.



AD 2000-Merkblatt



energy



DIN



A variety of products, including storage tanks and equipment, pressure vessels, pipeline and pigging systems, process vessels, heat exchangers, filter and scrubber systems, and blow-off silencers, are created entirely in-house multidisciplinary engineering.

We are able to prepare PQR, WPS, and Ergil welders to satisfy ASME IX regulations because to our trained welding engineers who have received certification from reputable third-party inspection companies like TUV, BV, and SGS.



Aäger

# Industry Standards in Ergil

Storage Tanks  
Pressurised Equipments  
Storage Tank Equipments  
Filters  
Exchangers  
Pigging Systems  
Quick Opening Closures  
Surge Vessels  
Fire Fighting System  
Silencers

API 650, API620, EN 14015, AWWA D100, UL 142  
ASME Section VIII Div. 1/2, EN 13445, AD2000 Merkblatter, PD5500, CODAP / 95  
External & Internal floating Roofs, Breathing Valves, Flame Arresters, Level Indicator  
Absorber, Degasser, Gas Boot, Knockout drum, Scrubber, Coalescer Separators  
TEMA, ASME Section VIII Div. 1/2, EN 13445  
ASME B31.3, B31.4/8  
ASME Section VIII Div. 2 Design by Analysis Module, FEA Analyses  
Transition, Surge ve Hammer effect analysis  
NFPA, UL  
FEA, CFD, Noise Insulation Applications

# Manufacturing & Fabrication

## Advanced Manufacturing

In our 35,000 square meter manufacturing facility, we provide in-house custom production, including design, fabrication, and installation of carbon steel, stainless steel, aluminum, and exotic alloys.





ERGIL delivers 40 years of expertise and knowledge to the production of machinery and accessories for industrial facilities, pipelines, refineries, and storage tank terminals.

Our extensive experience enables us to handle and meet challenging projects while providing excellent service. ERGIL offers extensive machining capability, equipped with a wide variety of CNC machines, lathes, cutting, bending, rolling, and welding machines.



## Ready for Industry 4.0

It is a modern facility with the most up-to-date equipment available, including lifting, welding, rolling, CNC plasma cutting, sand blasting, heating, and painting systems that are all fully automated.

Additionally, we are equipped to handle in-house testing facilities carried out radiography, pressure testing, and other non-destructive tests.

Qualifications of the welders: With the help of our trained welding engineers, we are able to prepare PQR, WPS, and Ergil welders who have been approved by recognized third-party inspection companies like TUV, BV, and SGS to meet ASME IX regulations.

One of ERGIL's strengths is its large manufacturing capability. This capability also comprises CNC machining up to 5m dia, CNC plasma cutting, robotic welding, drilling, rolling & bending, automatic sand blasting & painting, and assembly & installation.





# Capabilities

## Modular Process Skid Equipment



### **What is a modular process skid (MPS) ?**

A modular process skid is a combination of equipment that is connected on a frame. It can be a small frame consist of a pump or a complicated high rise system that has multiple mechanical component; such as pressure vessels, boilers, heat exchangers, storage tanks, pumps, compressors, steel structures and interconnecting pipelines as well as electrical.

### **What are the benefits of modular process skid equipment ?**

Manufacturing, and building a system on the site is very costly, slow and not safe compare to well-managed fabrication shop. Investors and contractors are looking ways to reduce the cost, risks and construction time, thus building industrial facilities with modular skids has become more and more popular.

### **What is our design& fabrication capabilities for modular skid packages (MSP) ?**

ERGIL can design modular skid process packages as per ASME, EN, and GOST taking into consideration of other supporting standards; such as NFPA, TEMA, NACE

ERGIL can fabricate a single module up to 60 ton weight, 40 meter length and 20 meter height. In addition to mechanical fabrication, ERGIL can install electrical cabling, lighting, earthing, instrumentation, rotary equipment, and control panels.



# Process Equipment



## Pressure Vessels & Heat Exchanger

ERGIL keeps stock and uses a wide range of pressure vessel steel plates to fabricate pressure vessels, boilers and other high pressure applications. Our vast experience with various steel fabrication and design method gives us a unique position in the market.

ERGIL is capable of testing pressure vessel and storage tanks for strength and leaks in-house. ERGIL's specially dedicated place for hydro-testing pressure vessels provide sufficient safety measures to test and inspect vessels with up to 300 bar test pressure.

ERGIL is also capable of inspection and testing of static

vacuum insulated cryogenic pressure vessels used in the storage of refrigerated liquefied gases.

ERGIL's in-house shot-blasting and painting capabilities provide unique solutions for both onshore and offshore applications. Painting shop has a heating room that provides desirable results in much faster time. It is equipped with conventional, HVLP, airless, air-assisted airless and electrostatic spray equipment. This equipment is used to apply conventional coatings such as alkyds, epoxies, zinc riches, polyurethanes and water borne products. Ergil can provide NACE inspector coating and painting quality approvals upon request.



# PIPELINE **PIGGING** SYSTEM



## Crucial Part of Pipeline Operation Integrity

The lifeblood of any pipeline is its pigging mechanism. They are a crucial part of the operation. Pig stations are employed for pipeline maintenance, cleaning, and inspection. A particular specialty that must be approved by industry authorities is required for the design and manufacture of high-pressure pig launchers and pig receivers. ERGIL's fabrication facility is accredited by the ASME U, S, R, NBR, GOST, AD 2000, EN 1090-1, EN ISO 3834-2, and DNV GL + ABS Marine Welding Class Program. ERGIL is also qualified to design and manufacture products that meet ASME, EN, GOST, and end-user specifications, such as Shell DEP.

ERGIL's design personnel and welding supervisor are qualified & designated as per ASME BPVC requirements.





Pig Signallers



Pig Launcher & Pig Receiver

## Safe, Reliable and Sustainable

On a single skid, ERGIL's modular pigging stations meet all of the needs of the clients. ERGIL creates portable or permanent frames with height-adjustable mechanisms that enable movement between locations and the use of numerous pipes. They are simple to move from one place to another. Modules can be designed based on the shipment mode (sea, road, or even air), and the system can be customized to defend against rush weather impacts and corrosive atmosphere

# Pig Launcher & Pig Receivers



## Product Description

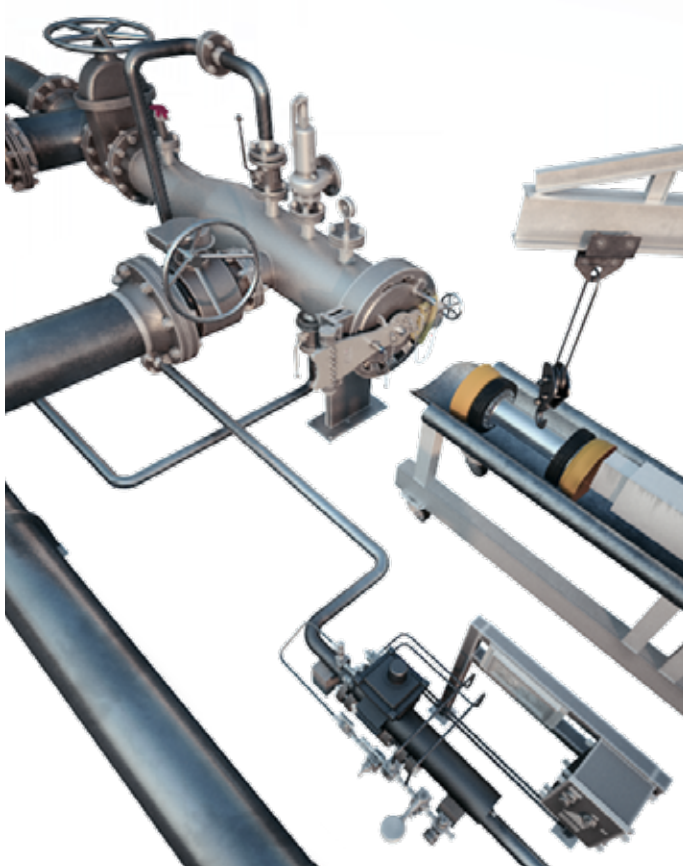
Ergil® Pipeline Equipment provides Pig Receiver & Launchers to oil, gas and liquid service and operator companies.

Ergil® is capable of providing pig receives and launchers for pipelines of any size and pressure ratings. Ergil® provides complete solutions for your pipeline related jobs, such as cleaning, drying, testing and displacement.

Easy to use Ergil® launchers and receivers can be used almost all kind of applications.

Ergil® PRL can be designed to accommodate scraper pigs, sphere pigs or "smart" pigs, or any combination of the three.

STANDARD Ergil® PIG LAUNCHER & PIG RECEIVERS comes with the standard type pig signal /indicator, closure, and nozzles.



## Key Features

- Designed to ASME B31.4 , ASME B31.8 and ASME Section VIII Div. 1 Codes.
- All pig receiver and launcher comes with the appropriate Ergil® pig indicator.
- All pig receiver and launcher comes with the appropriate Ergil® closures.
- All pig receiver and launcher comes with the sand blasted and primer coated and color of your choice.
- All welds are 100% inspected and tested.
- All pig receiver and launcher are hydrostatically tested.

# Quick Opening Closure

Rx1™



## Product Description

Oil, gas, and liquid service and operator organizations can rely on Ergil Process Equipment's RX1™ Byonet Type Quick Closures.

Ergil can provide quick closures in a variety of sizes and pressure ratings. The Standard Ergil™ Rx1 Quick Closure is included with the Standard Ergil™ Pig Launcher & Pig Receivers



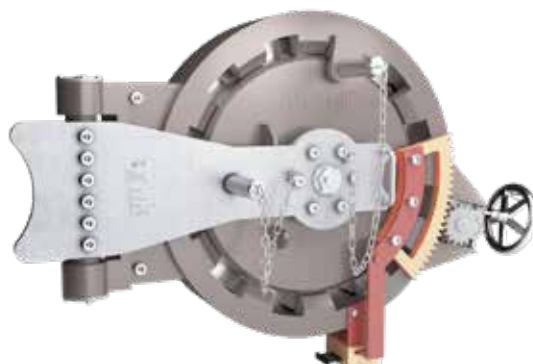
## Vertical Type



<b>Size Range</b>	6" to 52" Nominal
<b>Class Rating</b>	ANSI 150, 300, 600, 900, 1500
<b>Design Specification</b>	ASME VIII Division 1 ASME VIII Division 2 ANSI B31.3, B31.4, B31.8 Other international standards are available on request.
<b>Closure Configurations</b>	Class 150, PN16, and Special
<b>Material of Construction</b>	ASTM A 350 LF2 ASTM A 105 304L or 306L Stainless Steel and Duplex Stainless Steel
<b>Sealing</b>	Elastomeric Lip Seal, Nitrile, Viton, AE-D((Anti-Explosive Decompression) Others on request
<b>Accessories</b>	Key Interlock System Pig indicator

## Accessorize; Key Interlock

The Quick Opening Key Interlock Type is intended for higher safety and higher pressure applications





# Quick Opening Closure

Rx2™



## Product Description

Ergil Process Equipment provides RX2™ Type Quick Closures to oil, gas and liquid service and operator companies. Ergil is capable of providing quick closures for any size and pressure ratings.

Standard Ergil™ Pig Launcher & Pig Receivers Comes With The Standard Ergil™ Rx2 Quick Closure.



## Vertical Type



<b>Size Range</b>	6" to 52" Nominal
<b>Class Rating</b>	ANSI 150, 300, 600, 900, 1500
<b>Design Specification</b>	ASME VIII Division 1 ASME VIII Division 2 ANSI B31.3, B31.4, B31.8 Other international standards are available on request.
<b>Closure Configurations</b>	Class 150, PN16, and Special
<b>Material of Construction</b>	ASTM A 350 LF2 / ASME II SA350 Lf2 ASTM A 105/ ASME II SA 105 304L or 306L Stainless Steel and Duplex Stainless Steel
<b>Sealing</b>	Elastomeric Lip Seal, Nitrile, Viton. Others on request
<b>Accessories</b>	Key Interlock System-Pig indicator

## Key Features

- Designed to ASME B31.4 , ASME B31.8 and ASME Section VIII Div. 1 Codes.
- All RX™ Quick Closures comes with the sand blasted and primer coated and color of your choice.
- RX™ Quick Closures can be hydrostatically tested.
- Ergil™ offers spare parts for all of its products during maintenance.
- Inspection and test certificates will be provided for each item.
- Third party inspection can be provided TUV, Veritas, or Lloyd if it is requested.

# Pig Signals



## Product Description

Ergil® provides pig signals / indicators for pipeline industry for the extreme conditions.

Ergil® pig indicator is a device that is used on a pipeline to show an indication to operator during the pipeline pigging.

Ergil® Pig Indicator is a economical solution that can be applied all kind of pigging systems.



# Pig Handling System

## Product Description

Ergil® provides custom made pig handling cranes and trolley systems for your pigging station.

These systems can help you to handle, load, and unload the pigs without using man power and minimize the work accidents.

Each pig handling and trolley system is designed and manufactured to meet the requirements of each client.

Pig handling systems consist of a trolley and a crane. Pig trolleys can be either mechanical (man-power), or automatic, which is powered by a motor.

Systems can be also applied separately. Spark proof certificated handling system can be also supplied on request.

Handling system specially designed for easy use, and easy to maintenance; no need for spare parts.









# PRESSURE **VESSELS**



ERGIL can manufacture pressure vessels with options of carbon steel, stainless steel and other alloys upon request under Section VIII, Division 1, "U" stamp, of the ASME Code, ERGIL's is also authorized to repair and make alterations to pressure vessels under The National Board Boiler and Pressure Vessels Inspectors (R stamp) ERGIL is specialized in engineering, design and fabrication of low and high pressurized vessels and process equipment for oil, and gas applications.

## Pressure Vessels Product List

- Oil, Gas & Air Separators
- Pig Launcher & Pig Receivers
- Heat Exchanger
- Surge Vessels
- Boilers
- Reactors
- Cryogenic Vessels
- Filtration Vessels
- Drums & Column
- Mixer Vessels
- Air Receivers
- Evaporators and Dryers
- Water Treatment Vessels









# HEAT EXCHANGER

Best thermal performance



## Pioneered in Heat Exchanger Design

Shell and tube-type heat exchangers are highly complicated equipment and critical parts of any industrial plant to provide the best thermal performance. Experience and the right manufacturing methods play important roles in design and quality.

In-House Design

## Safe & Reliable

From the conceptual design to commissioning, ERGIL provides unique solutions for shell and tube-type heat exchangers. Keeping customers' requirements in mind, they follow the latest industry standards, regulations, and cost-effective solutions. In recent years,

# Heat Exchanger



ERGIL is capable of designing and manufacturing the following types of heat exchangers for the ideal solution of any industry. In this direction, all stations where heat exchangers are produced and all materials for it are chosen and processed according to certain certifications.

- U-tube type heat exchangers
- One pass straight fix-tube heat exchangers
- Two or multiple pass straight fix-tube heat exchangers
- Floating head heat exchangers

ERGIL developed its unique manufacturing technology by cooperating with various machinery manufacturers to maximize welding, tube forming, and tube sheet quality efficiency.

ERGIL also continuously invests in the latest technical analysis design software in addition to the development of its in-house design software.



<b>Body / Flanges</b>	1- Carbon steel 2- Stainless steel AISI 316 –L or 304-L 3- Aluminium 4- Customer Specification
<b>Flange Drilling</b>	Class 150, PN16, and Special
<b>Flange Element</b>	Stainless steel AISI 316 –L or 304-L
<b>O-ring Seal</b>	Nitrile, Special
<b>Screen</b>	Stainless steel
<b>Weather Hood</b>	Carbon steel, Stainless steel or Aluminium
<b>Paint Finish</b>	1- Powder Coating, Colour RAL 9006 2- Epoxy Paint, Colour RAL 9006 3- Customer Specification

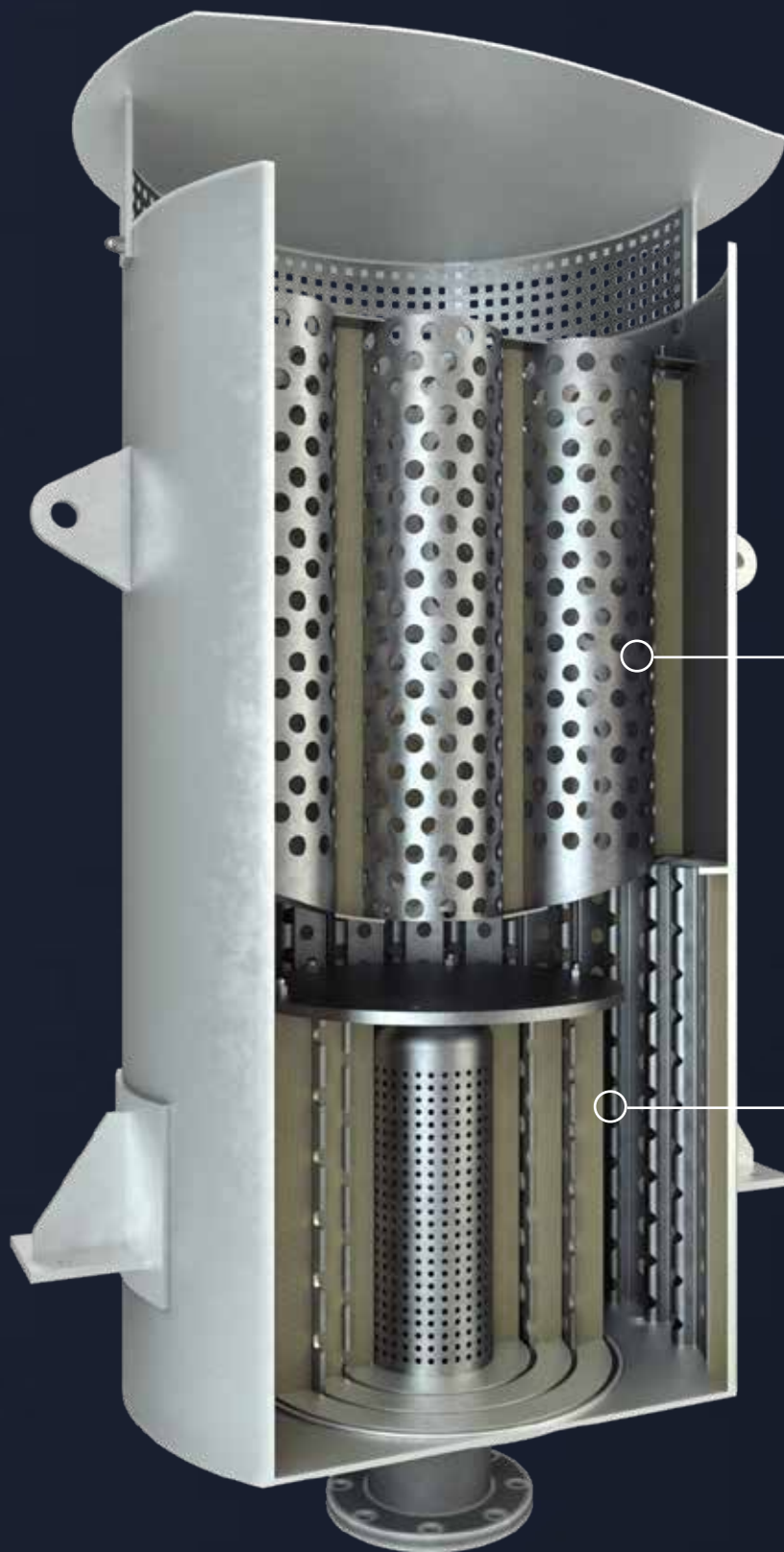
## Key Features

- Robust design and minimized maintenance ensure maximum uptime.
- Superior thermal performance means maximum heat recovery using minimal heating and/ or cooling media, which cuts fuel consumption, energy costs and environmental impact.
- Small footprint and light weight minimize installation, operating and maintenance costs.
- Gasket-free construction means high security against leakage.
- Easy to install and maintain due to multipass design.
- Compact solution with a small footprint.





# VENT **SILENCER**



Maximum Noise Reduction Performance

Absorptive & Reactive



## Product Description

ERGIL is one of the world's leading suppliers for Industrial Vent and Blow-off silencers. Vent Silencers reduce the noise generated by the expansion of gas or steam from elevated pressures to atmospheric pressure.

These absorptive silencers are used to suppress noise generated by high velocity gas streams such as steam vents, safety relief valve outlets, system blow down and purge outlets.

This noise can be generated due to the high velocity flow through the valve and turbulence created around any obstacle in the line that suddenly restricts or changes the direction of flow such as valve or an orifice.

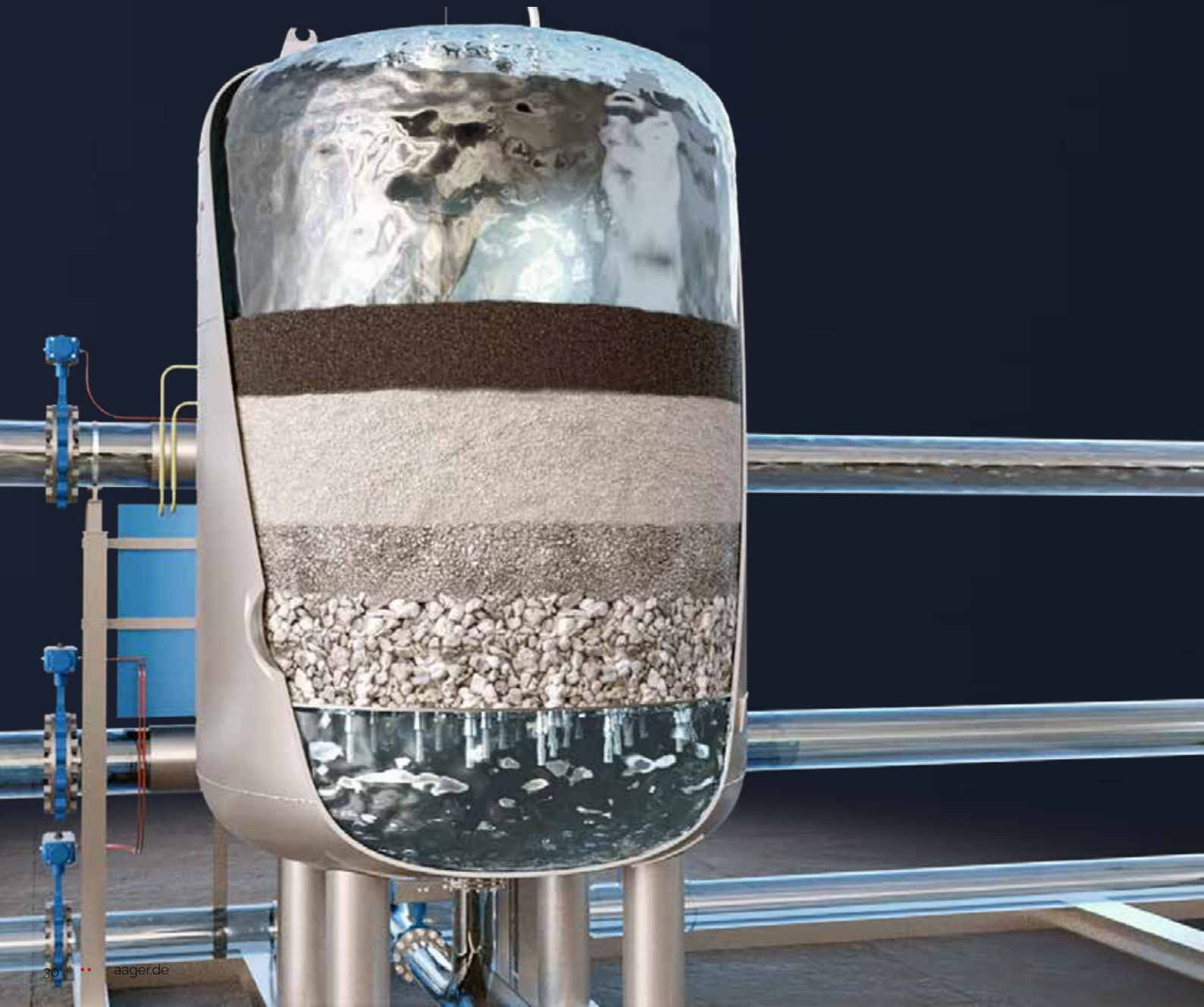
Our Vent Silencers are completely customizable and allow for either vertical or horizontal orientation. We offer the highest quality acoustically optimised silencers at reasonable prices, anywhere in the world. Industrial Vent and Blow-off silencers can be utilised in a number of industries.





# SEPARATOR & FILTER VESSELS

ERGIL products provide the removal of suspended substances such as clay, silt, organic and inorganic substances, dissolved color organic compounds and micro-organisms that cause turbidity (measurement with nephelometer). It can be designed in different sizes and according to different filtering features.



Materials in the nature have their own language and we speak the same language with them! To eliminate the unwanted elements in the water, different layers are being used with different thickness levels, also different goods are chosen.

That requires critical calculations and engineering effort, so Ergil's expert engineers and technicians are here for that.

After a careful analysis about the content of the water, usage of different materials is decided and calculations are made.



# Medias

## Garnet

It is a high hardness and high density granular filter media. It is used as a substrate in a dual-media filter system with sand, gravel and anthracite.

## Quartz

It is used as a filtration medium or substrate depending on the suspended solid particle size and application.

## Antiricite

Anthracite is a natural mineral used as a top layer filtration mineral in multimedia sand filters.

## Dolomite

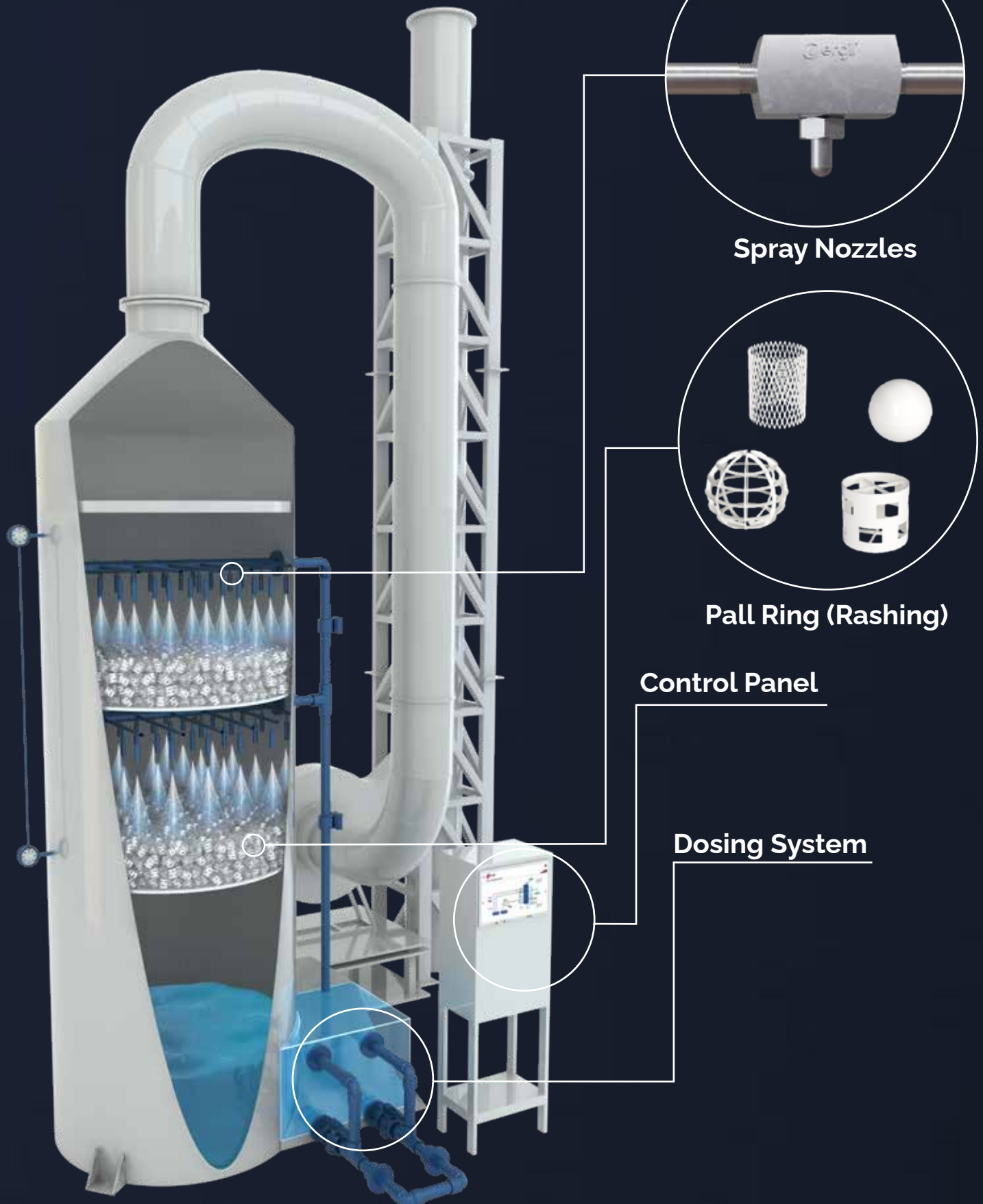
Dolomite is a granular calcium carbonate filtration media with a particle size of 1 to 2 mm.

## Activated Carbon

Activated carbon is used to remove chlorinated hydrocarbons and trihalomethanes, disinfection by-products, volatile organics, pesticides and micro-pollutants that cause taste and odor in drinking water.



# SCRUBBER **SYSTEMS**





With Efficiency Rates Of

**Up To**

**%**  
**99**

## **Scrubber Systems offers solutions for the following sectors;**

- Asphalt Processing
- Pharmaceuticals
- Oil & Gas
- Landfills and Biogas
- Textile Processing
- Tar Removal
- Curing Ovens
- Vinyl Manufacturing
- Acid Mist Control
- Fertilizer Manufacturing
- Wastewater Treatment
- Steel Processing
- Electronics
- Food Processing
- Cocoa Processing
- Nuclear Waste Filtration
- Printing
- Precious Metal Recovery
- Wood Products

ERGIL's Scrubber Systems are designed for bringing a solution to the harmful gases and odors caused by the activities of industrial facilities and enterprises that pose a great threat to human and environmental health.

The system prevents the formation of acid rain by purifying the acidic gases from the exhaust before being released into the atmosphere.

The scrubber can handle high-temperature streams and very moist streams. It also provides smaller space requirements.

In some cases, scrubbers can be retrofitted into current equipment. Also, they can provide cooling of heated gases.

The scrubber, which has a higher desulfurization capacity compared to other equipment, has a low purchase cost.

It can cool the heated gases and neutralize highly corrosive gases and dust.

## Wet Scrubber

Scrubbers are the best way for preventing harmful gases and odor control.

ERGIL's Wet Scrubbers are able to remove highly corrosive gases and particulates in a single unit. Wet Scrubbers also use heat reduction options in their process.

These units handle highly flammable dust with little risk of explosion when they are properly designed. Wet scrubbers offer several customizable options, based on specific output and applications. These options often allow a reduction in cost.



## Dry Scrubber

Dry scrubbers work with a system that lets the pass through the filters and harmful gases and odors are absorbed with this method.

The chemical filters should be chosen carefully and all calculations should be made properly to reach high performance and to obtain the desired outcome. The filters might change from process to process due to gas and chemical content.

In some cases, dry scrubbers can be retrofitted into current equipment.

## Bio Scrubber

ERGIL uses the power of chemistry and biology sciences for Bio Scrubbers. Bacteria are used to absorb harmful gasses & odors. These bacteria consume the harmful chemicals as a way of absorption.

The chemical solution brings also biological solution, too, and ERGIL let them react with each other.

Beyond it is mechanical design, a chemical process takes place in the background and harmful gasses are filtered by the different chemicals and bacteria which have the power to absorb them. The used chemicals change from process to process due to gas and chemical content.







# SURGE VESSELS



# Compressor Type Surge Vessel



## Product Description

Compressor type surge vessels have been in operation for many years all over the world as a solution to surge problems. The system comprises of a vessel containing water and a pre-calculated volume of compressed air in order to give the required elasticity to push the water at the required rate into the system. To achieve this balance, a complicated system of control is required.

Starting with compressors, air receiver, solenoid valves, measuring equipment and of course a control panel. As the air is continuously dissolved into the water, so the control system is activated to replenish the compressed air volume in order to maintain the required elasticity.

A number of security systems are also required in the event of system failure.

Ergil® Surge Vessels are perfection of 40 years of experience. We developed cost-effective surge control system that provides one of the best internally designed bladder pressure control system.



ERGIL's Surge Vessel is a powerful and user-friendly control system that protects your pipeline against water hammer & pressure transients for potable water, sea-water, and wastewater applications. It protects not only humans' life, but also your pipeline, pump stations, hydrants, valves, and other related equipment.

- Surge Vessel Body (as per ASME, EN or GOST)
- Bladder (material is carefully chosen as per the requirements)
- Internals; such as vortex breakers, supports, anti-extrusion grid
- Compressors & Pumps
- Level Indicator
- Relief Valves
- Gauges
- Instrumentation
- Drain Valves
- Control Panel
- Skid Mobile or Fixed Frame & Components
- Piping
- Ladder & Platform
- Legs
- Lightning & Earthing



# Bladder Type Surge Vessel



## Product Description

Surge vessels are important assets in the water treatment process, though incorrect maintenance and management can lead to issues in pipelines costs and the water industry millions every year, causing burst pipes, structural damage, negative pressures and colossal water wastage.

Negative pressure directly contravenes Drinking Water Inspectorate (DWI) legislation due to the risk of contamination.

An Ager Brand, Ergil® is a global specialist in designing, engineering and manufacturing surge vessels with an extensive experience.



Ergil® manufactures two types of surge vessel which are categorized as Bladder type and Compressor type for the water pipeline, desalination plants, crude oil pipelines and other applications.

Ergil® provides surge vessels in horizontal and vertical types are available and orifice plates, butterfly valves, level instruments, pipeline etc. are provided as required.



## Key Features

- Reowned company understanding of surge system
- Ensures compliance with Product Equipment Directive & ASME regulations.
- Reduces water leakage.
- Pipeline fatigue and bursts analyzes.
- Minimizes risk of contamination in potable water pipes
- Accommodates variable pumping regimes without
- Improves your company's environmental social responsibility and public image





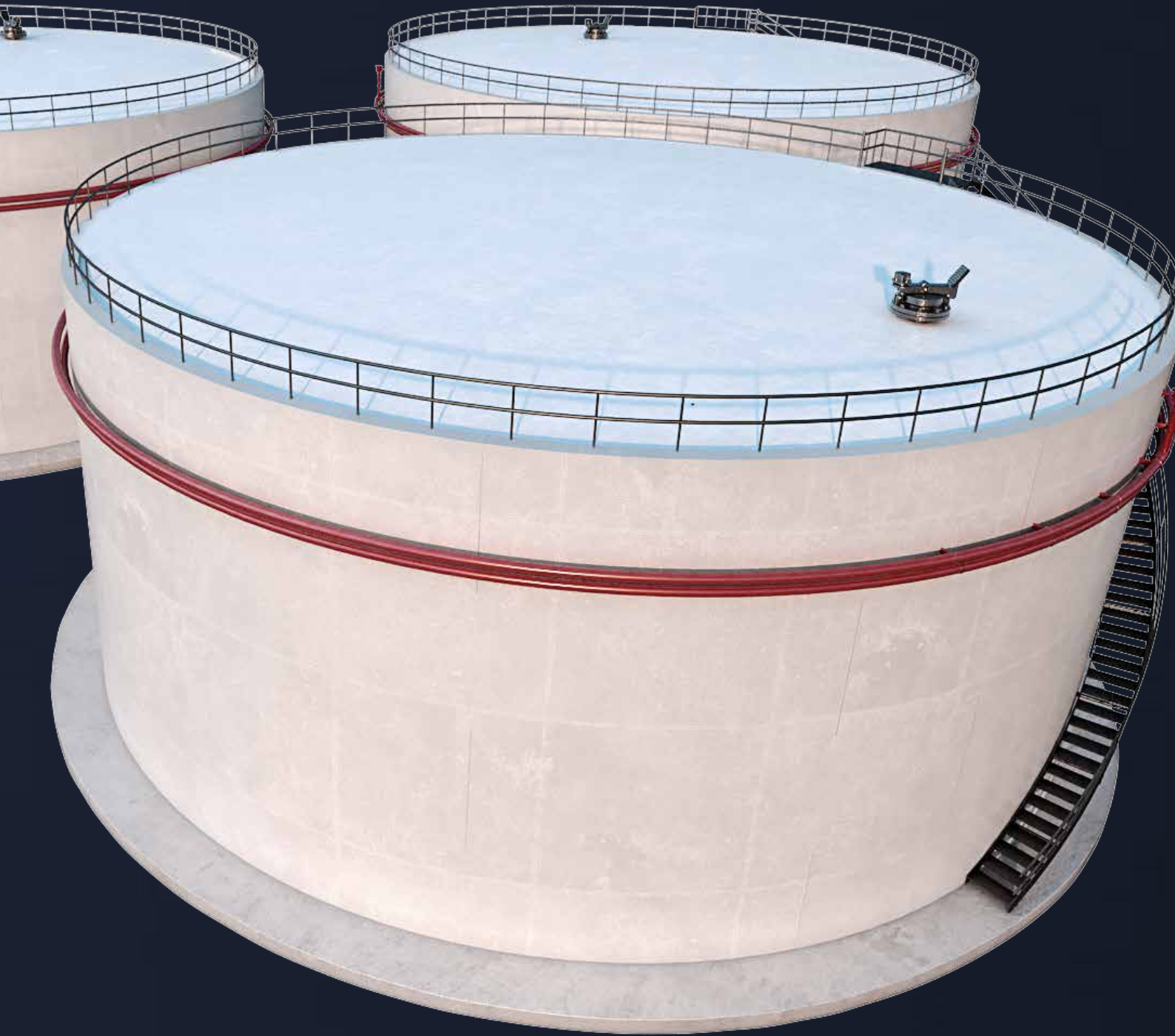








# STORAGE TANKS





## Product Description

Increasing health, safety, and environmental concerns lead to new regulations that in turn increase the cost of designing, building, and operating storage facilities.

We at ERGIL are committed to providing the most economical, environmentally friendly, and safe storage solutions. From the conceptual design to commissioning, ERGIL provides unique solutions for storage tank terminals.

Keeping customers' requirements in mind, we follow the latest industry standards, regulations, and cost-effective solution.

ERGIL is a specialist designer and fabricator with extensive experience providing pressurized and atmospheric engineered-to-order shop fabricated and prefabricated storage tanks to oil & gas, petrochemical, chemical, pharmaceutical, agro, water, wastewater treatment, and utility industry sectors.

ERGIL has been designing, fabricating and building storage tanks and pressure vessels with a capacity of 1m<sup>3</sup> to 100,000 m<sup>3</sup> over 40 years.

## Types of atmospheric storage tanks provided:

### Fixed-roof Tanks

- Self-supporting/supported cone roofs
- Self-supporting dome roofs
- Stiffened umbrella roofs

### Floating-roof Tanks

- Internal and external aluminum and steel welded steel pan, pontoon, or double deck designs
- Internal full contact aluminum honeycomb
- Stiffened umbrella roofs

### Special Atmospheric Tanks

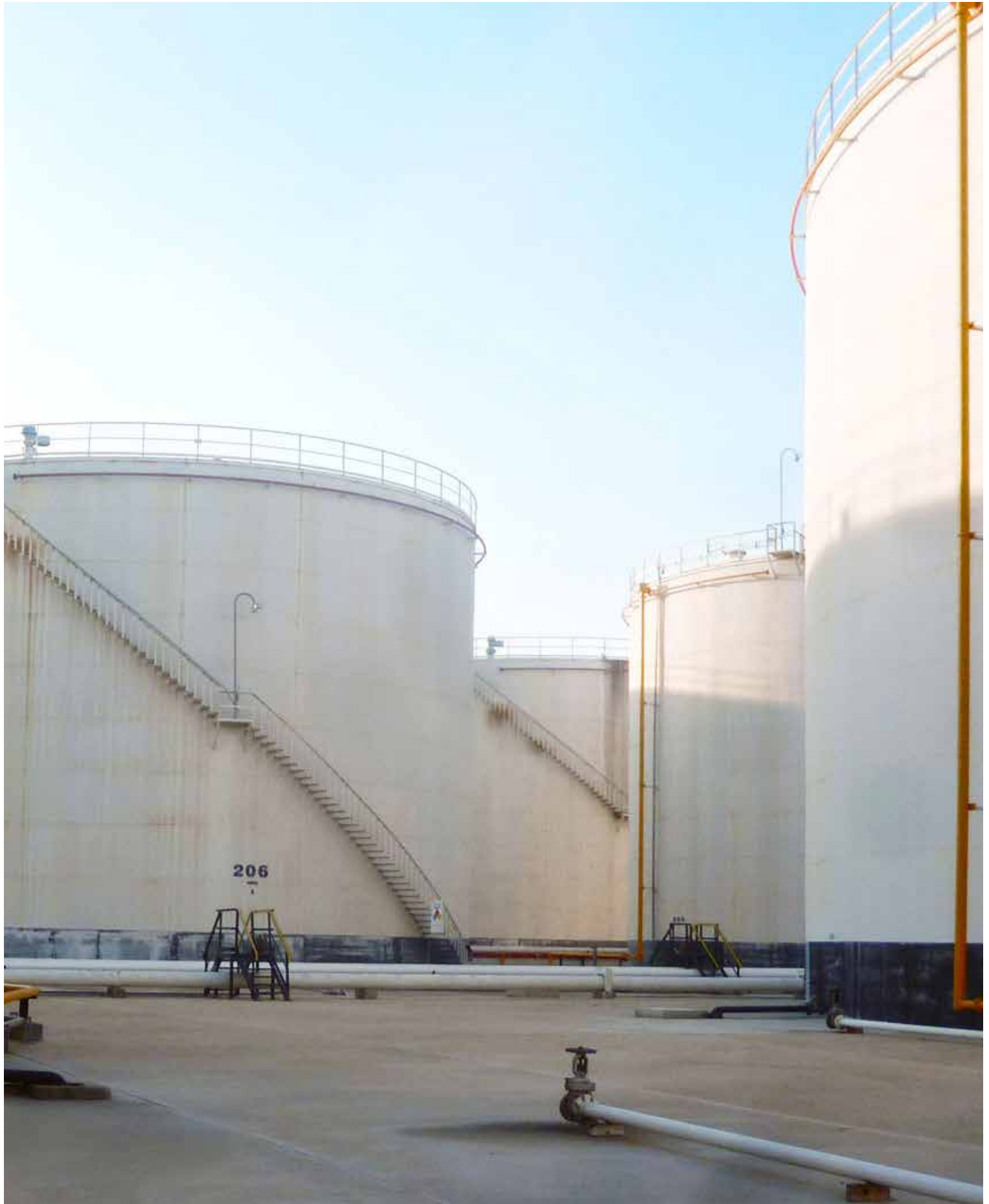
- Open top tanks
- Elevated cone bottom tanks
- Bins
- Silo













## People Oriented

Ergil, which adapts rapidly to the developing technology, offers you remedies with its well-equipped infrastructure, quality and devoted team.

It knows that there is a strong team spirit behind each successful results. Ergil cares about the satisfaction of its employees with the positive working atmosphere it provides.

Believing in the power of team strength and team collaboration, Ergil aims to provide a comfortable work environment for its employees in order to position itself as a leader.

Ergil team does not stop working in discipline, and works hard to achieve better and more efficient results. It always aims forward with the pleasure of production and development.

# People Oriented





## Äager GmbH

### Germany Head Office + R&D + Sales

Herzogspitalstraße 24  
Munich 80331  
Germany  
+49 (0) 89 1250 15240  
www.aager.de  
sales@aager.de

### Turkey Head Office + Sales

Ağaoğlu My Office 212  
No: 3 B Blok /175  
P.K 34218 Güneşli – Bağcılar  
İstanbul / Turkey  
+90 212 485 40 07  
+90 212 485 40 42  
www.ergil.com  
sales@aager.de

### Turkey Factory + Engineering + R&D + Sales

Mersin Tarsus OSB.13.CD.NO:7  
P.K: 33540 Mersin, Turkey  
+90 324 676 44 04  
+90 324 676 44 03  
sales@aager.de

### U.A.E. Sales + Warehouse

Jumeirah Lake Towers, X2 Tower 1906  
P.O. Box: 123661 Dubai, U.A.E.  
+971 4 450 8051  
+971 4 450 8041  
sales@ergil.com

catalog series

**Ergil®**

Revision No: 01  
ER-Ctlg-09.22/V1  
ergil.com

September 2022

**Ergil®**  
Website QR Code



**Äager**