ETT GAS

EKREM TANK TRAILER

TSE CE ADR ISO 9001:2015 ISO 14001:2015 ISO 45001:2018 ISO 3834-2 TÜV NORD

www.ettgas.com

ABOUT US

ETTGAS wants to show its dynamism and skill in the LPG market with high quality products. Our company, with its deep-rooted corporate structure, designs and manufactures LPG storage and transport tanks according to pressure vessels standards which are EN, ASME, CODAP and BS.

ETTGAS owes its technical knowledge and experience to its expert staff, national and international business experience and its ability to transform customer demands into products in the most intense way. In addition, its expertise in welding technology, the automation systems used in production and the professional seriousness of all kind of tests and controls without allowing any negligence or looseness are an indication of how distinguished, reliable and superior capabilities of our LPG tank production.

The paint of our products is Epoxy, which ensures that the tanks are long-lasting under all conditions. The brands we use have proven themselves from past to present and have gained the satisfaction of us and our customers.

With our potential to manufacture all kinds of tanks with diameters from 800 millimeters to 5.000 millimeters, our company is capable of meeting all possible needs in this context.
The production nomenclature covers a wide range of parameters:
Our tanks capacity can be between 100 liters to 363 m^3.
Working pressure storage tanks for LPG - from 15,6 to 17,65 bar, depending on the local normative requirements of using country;
Vessels for aboveground and underground installation lpg tanks.
Our products are tailored to the different LPG transport schemes for storage tanks for LPG-Trucks, standard transport containers, etc., with the possibility for land or sea transport.
Potential clients are European Countries, Asian and African markets.
ETTGAS LPG vessels are designed and manufactured according to
EN 13445& AD2000 codes & ASME & CODAP for aboveground&underground storage tanks.
Standard tanks size for industrials and domestics use between 100 liters up to 363 m^3.

MISSION

ETTGAS supplies pressure tanks with the principle of "customer satisfaction is priority", taking into account their safety and quality concerns. We know that there are sometimes unpleasant experiences when it comes to purchasing pressure vessels. Our aim is to provide the most suitable product in transportation and/or storage tanks with a stress-free service process that our customers can trust.

VISION

We also believe in low investment costs and customer profitability by offering our customers a quality product at the most affordable cost. With unexaggerated costs, the biggest profit of ETTGAS is customer satisfaction, and the satisfaction of our company's employees will return to our customers as satisfaction. In this way, a pleasant workplace with the satisfaction cycle that will occur is a gain for everyone.

MAIN PRODUCT GROUPS

* *LPG Transportation Tanks*
* *LPG Storage Tanks*
* *LPG Bobtail Tanks*
* *LPG Skid Tanks*
* *Fuel-Oil Transportation Tanks*
* *Fuel-Oil Storage Tanks*

ETTGAS does not compromise on its principles in realizing the standards specified by the design code in the production of LPG transport tanks and storage tanks. The best achieved with in the framework of its quality management system is the target that must be exceeded.

PRODUCTION IN QUALITY MANAGEMENT

Design and production conformity with European / Asme / Codap Standards.

Use of certified materials in accordance with the design code
EN ISO 3834-2 workplace resource qualification
Certified welders in EN 9606-1 standards
Welding consumables in accordance with EN ISO 14171 standards
Body and camber welds SAW
Nozzle sources GTAW / SMAW
Surveillance and Control

The other half of correct and standardized production is training for correct observation, measurement, control, evaluation and continuous improvement.

Accurate measurement, control and evaluation are made by trained personnel and regular calibrations. All equipment used in observations and measurements are made by internationally accredited organizations.

Based on this fact, ETTGAS makes the following applications:

Non-Destructive Testing
X ray
Magnetic Particle
panetrant
Mechanical Tests and Experiments
Tensile test according to TS EN ISO 4136
Bending test according to TS EN ISO 5173
Notch impact test according to TS EN ISO 9016
Macro analysis according to ISO 17639

LPG TRANSPORTATION TANKS

ETTGAS LPG semitrailer is designed in order to carry out LPG in most effective and safest transport condition on highways by comply with EN 12493 standards at the vessel production. Design and production carried out based on PI, EN 12493 standards® regulations. In case of customer request, ASME, Merkblatt or any others are available. Trailer chassis and powertrain are designed and produced by our years of experience based on real road conditions.

LPG vessel are checked by 3. Party;
100% X-ray
Panetrant and magnetic particle tests
Hydrostatic tests

TS EN ISO 4136 : tensile test
TS EN ISO 5173 : bending test
TS EN ISO 9016:2012 : charpy impact test
ISO 17639 : macro inspection test and all recorded.

GENERAL STANDARTS

The tank is designed with a cylindrical section to create the most durable and lightest tank-frame combination.

Our designs have all qualified brake and roll stability performance tests.

Special high-strength, fine-grained, normalized "P' series pressure vessel steel in accordance with EN 10028-3 standard is used in our tanks. The mechanical and metallurgical properties of the steel have been tested and verified.

In the tank heads, elliptical cambered heads with tension relief in accordance with the standards are used.

It is carried out under the supervision of an independent inspection organization in accordance with standards and procedures with experienced engineer staff who are experts in production and quality processes.

Welding is done by certified welders in accordance with standards and materials.

All of our welded joints are tested and checked by our competent and internationally recognized certified NDT personnel.

The inside of the tank is equipped with a vent and a bolted ring in accordance with the standards.

All tanks are subjected to hydrostatic pressure test after they are manufactured. After this test, the connections of the tank accessories are subjected to the air tightness test.

The chassis is manufactured in accordance with the 2007/46/EC directive and a certificate of conformity is given.

Chassis will be delivered with cold marking and identification plate approved.

Chassis Made of high-strength steel to withstand all road and load conditions.

Park Legs are offered with double speed trailer type models, each with 25 tons of dynamic and 50 tons of static load capacity, and different brand options. Axles with different axle and suspension options;

- *From one to four axles*
- *Single or double tires*
- *Mechanical or air suspension options available*

Brake system with EBS, ABS or RSP system is offered Systematically.

Warning, warning, suspension, brake etc. The systems consist of approved materials according to ADR.

Sandblasted tank exteriors in SA quality before painting

LPG TRANSPORT TANK SPECIFICATIONS

***BRAND** / ETTGAS*
***TANK TYPE** / Transport*
***PROJECT CODES** / EN-12493, ADR, ASME, CODAP*
***OPERATING TEMPERATURE** / Min -20˚C / max +50˚C, Min -40˚C / max +50˚C*
***OPERATING PRESSURE** / 18 Bar*
***MATERIAL** / P355 GH / P355 NH/NL1 / NL2, P460 NL1 / Nl2*
***BOMB TYPE** / Ellipsoidal*
***TANK OUTER DIAMETER** / 2200mm-2700mm*
***TANK BODY THICKNESS** / 8 mm- 10mm-12mm-14mm*
***BOMB THICKNESS** / 10 mm- 12mm-14mm-16mm*
***BODY LENGTH** / 9000/12000*
***CORROSION SHARE** / 1mm*
***TANK VOLUME** / 38m³-75m³*

PAINT

SA2.5 quality outer tank sandblasting
Epoxy primer and paint

QUALITY CONTROL AND TESTS

Related tests are done by TUVNORD,INTERTEK,
BUREAU VERITAS and TSE.
Material control and certification verification X ray
Welding procedure and competence (PQR/WPS)
Panetrant and Magnetic particle testing
Hydrostatic test size control

CERTIFICATES

ADR, EN 12493 (PI), ASME, CODAP

WELDING PROCESS

All welders have EN 9606-1 certificate.
All resources are made by the relevant PQR and WPS documentation.

HEAT TREATMENT

Curves are heat treated: stress relief annealing

WAVE BRAKES

3-5 pieces

LPG SEMI TRAILER

OPTIONAL EQUIPMENT

Magnetic Level Indicator
Sun Shield
Aluminium Rim
Disc Brake
Spare Tire
Lpg Transfer Pumps
LPG meter with/without printer

LPG BOBTAIL TANKS

TECHNICIAL SPECIFICATIONS

Tank Capacities are between 7 m^3 up to 34 m^3
Tank Class: Class 2 (Gas Transported Goods: UN 1965 - Hydrocarbon gas mixture UN 1978 - Propane UN 1011 - Butane UN 1075 - Fuel-oil gas, liquefied Operating Temperature: Min -20˚C / max +50˚C, Min -40˚C / max +50˚C Design Standard. ADR, EN 12493, ASME or CODAP

The tank is cylindrical and designed with the most durable and lightness combination. The tank is designed with a cylindrical section to create the most durable and lightest tank-frame combination. - In our tanks, special high-strength, fine-grained, normalized "P series pressure vessel steel" is used in accordance with EN. 10028-3 standard. The mechanical and metallurgical properties of the steel are tested and verified. In the tank heads, elliptical cambered heads with tension relief in accordance with the standards are used. - It is carried out under the supervision of an independent inspection organization in accordance with standards and procedures, with experienced engineer staff who are experts in production and quality processes.*

Welding is done by certified welders in accordance with standards and materials. All of our welded joints are tested and controlled by our competent and internationally recognized certified NDT personnel. The tank is equipped with air vent and bolt connection ring in accordance with the standards.

After production, all tanks are subjected to hydrostatic pressure test. After this test, the connections of the tank accessories are subjected to the air tightness test. Tank outer surfaces are sandblasted in SA quality before painting. By using the latest technology "Oven Paint" method, the best corrosion resistant product is offered. They are long-lasting, high quality and two-component paint products of paint companies that have proven their international quality in painting.

LPG BOBTAIL TANKS STANDART EQUIPMENT

Safety Valves
Manometer
Thermometer
Drainage Nozzle
DN 400 Manhole
Fixed Level Indicator (%5, %95)
Rotogauge Indicator
Hydraulic- driven interval valves
Rear bumper
Plastic tool cabinet
Plastic water supply tank
Fire extinguisher cylinder carrying cabin
Mechanic spare wheel carrier
Warning and caution signs on the tank
LPG logo
Filling and discharging connections
Line safety valves
Line pressure indicator
Liquid transfer pipe holders (2 units in both sides)
Grounding rod
"Qualified and ergonomic valve cabinet made of metal

LPG BOBTAIL TANKS OPTIONAL EQUIPMENT

Magnetic level indicator
Sun shield
Grounding reel
Spare tire
LPG Transfer Pump
LPG meter with/without printer
LPG Hose Reel
Electrical / Hydraulic / Pneumatic Automatic winding

LPG STORAGE TANKS

ETTGAS LPG tanks are designed and produced in accordance with EN 13445 / 12542 and ASME, CODAP, AD-2000 standards. Our production is possible from 100 Liters to 363 m³. Includes full weld protectors when using P355NH/GH/NL1/NL2 or equivalent in production. Elliptical cambers are produced according to standards and combined with tanks.

Normal working pressure is 17.5 bar-20°C/-50°C. Lifting lugs are manufactured as standard for tanks. Large volume LPG tanks are used for gas storage for industrial, commercial and agricultural purposes:

* *Commercial and domestic heating*
* *In tourist arrangement*
* *In agricultural production facilities*
* *In industrial production facilities*
* *In electricity generators*
* *In filling facilities*
* *At autogas stations*
* *Capacity: 100 Liters- 250m³*
* *CE certificate*
* *Elliptical camber-save volume*
* *National and international traceability*
* *Test pressure 26.5bar & -20°C/+50°C*
* *X-ray*
* *Flanged manhole*
* *P355GH special steel*
* *Ground components*
* *White epoxy paint on sandblasted smooth surface*
* *Lifting and carrying lugs*
* *High voltage test is done for active protection*

UNDERGROUND TANKS

ETTGAS Underground Tanks - ETTGAS Tank's Exclusive
State-of-the-Art Underground - Vessel Technology
There are many good reasons to install LPG vessels underground. Many facilities have limited real estate, and the space requirements for aboveground bulk storage vessels are prohibitive. Plus, underground LPG vessels provide added safety in the unlikely case of fire or other natural disaster.
ETTGAS's underground vessels combine the structural strength of rugged steel construction with the lasting protection of our unique coating to produce a LPG storage vessel second to none.
ETTGAS features a strong dielectric coating of high solids polyurethane for protection, even under the most difficult conditions.
ETTGAS resists surface damage from impact or abrasion.
After manufacturing and rigorous testing, the vessel's exterior surfaces are commercially blasted in preparation for coating.
This process provides a superior coating adhesion The protective coating is a dense, two-component polyurethane coating system with impact properties and tensile strength Our Quality Control team then conducts a high voltage spark test to ensure the coating integrity and guarantee effective corrosion protection.
There are many reasons for choosing underground tanks. However, usage area and safety are the most important reasons.
ETTGAS production tanks are products that are produced safely with a suitable body structure and elite welding workmanship. During and after production, dyeing is done after x-ray, penetrant, magnetic and hydrostatic tests. The production of tanks resistant to impact progression is completed with surface SA1/2 sandblasting quality and epoxy paint.
Quality control. By applying a voltage test at high voltage by the personnel, a full resistance protection test of the paint against corrosion is made.
Underground LPG tanks have quite different conditions compared to above-ground tanks. Therefore, it is necessary to have a protective and preventive team.
There is a natural electric current in the soil. This is metal current. Objects have a constraint property. This electro-electric current can cause small punctures in the metal. Therefore, microorganism tanks may be exposed to electrolysis. While placing the tank, it is transmitted to the tank with a conductor and anode bags.
Tank paint and embedding of the tank are other considerations. ETTGAS protective tanks are coated with quality dielectric polyurethane paint. In addition, it is necessary to avoid beam elements on the tank surface during the embedding of the tank According to the model it is manufactured as aboveground or underground storage tanks. Tank is designed with cylindrical section and designed with the most durable and safest combination.
**Our tanks use special high strength, fine grained, normalized "P" series pressure vessel steel in accordance with EN 10028-3.*
The mechanical and metallurgical properties of the steel are tested and verified.

- ** An elliptical bomb is used in tank heads with stress relieving according to standards*
- ** Manufacturing and quality processes are carried out under the supervision of an independent inspection body, in accordance with standards and procedures, by a qualified, experienced engineer.*
- ** Welding is done by certified welders in accordance with standards and materials.*
- ** Certified NDT personnel with competence and international competence in testing and controlling all welded joints.*
- ** Once installed, all tanks are subjected to a hydrostatic pressure test.*

Outer surfaces of tank are sandblasted with SA quality before painting
Provide the best product to the customers by using corrosion resistant, long lasting, high quality two component paint products of paint companies which have proven internationally for dyeing.

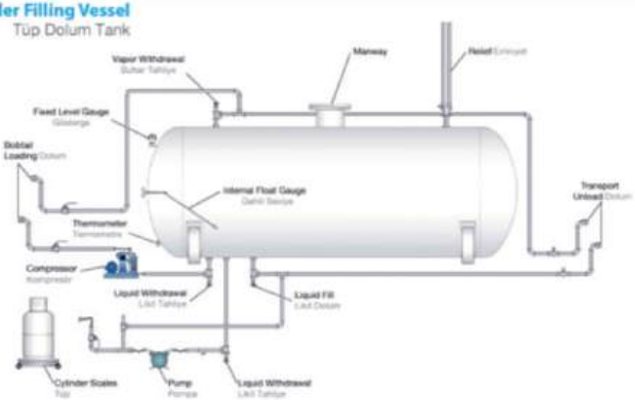
UNDERGROUND TANKS

General Information
Tank Capacity: 0.5 m^3 to 250 m^3
Tank Class: Class 2 (Gas)
Products to be stored:
UN 1965
UN 1978 - Propane
UN 1011 - Butane
UN 1075 - Fuel-oil gas, Liquefied
Operating Temperature: - 20 'C to +50 °C
Design Standard: EN 13445/ PED, CE BRAND, Ad2000 Merkblatter, ASME U or U2 labeled, CODAP

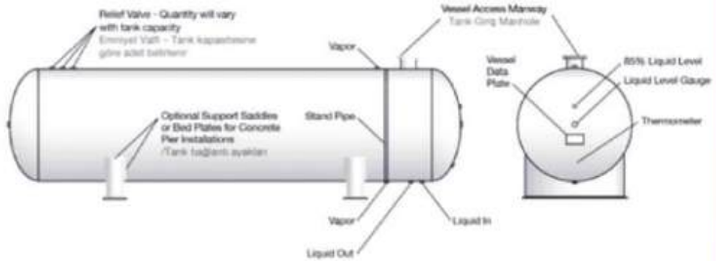
DESULPHURIZATION TANK

In order to reduce the sulphur content of LPG for very specific purposes such as to use in propellants in cosmetics sector; or to use in gas mixtures that are used to inflate isolation foams in building materials industry; or in refrigerants in white goods sector, these special tanks utilise very specific minerals. Purified output provides corrosion and exhaust emissions less than 6 m/nm^3. Single or twin tower, serial or parallel versions are available. With our expertise of years and know-how on these types of tanks, we meticulously design and engineer in accordance with your requirements of the final output LPG quality.

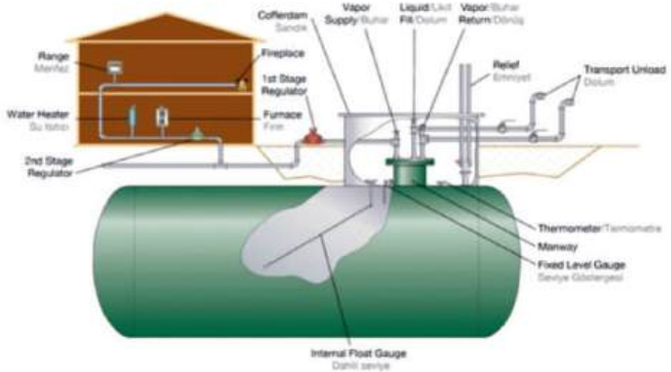
Cylinder Filling Vessel
Tüp Dolum Tank



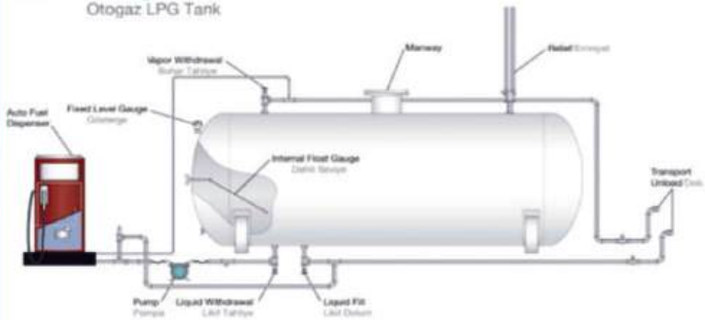
Aboveground
Yerüstü Tankları



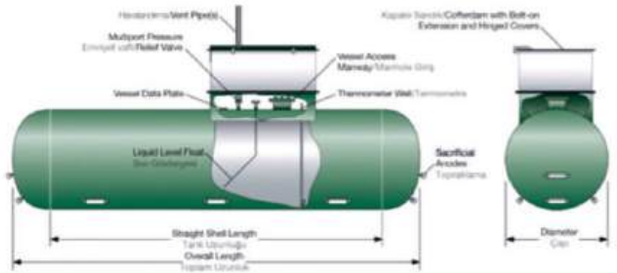
Space Heating Fuel Supply LPG Vessel
Evsel Isıtma Sistemleri LPG Tank



Bulk LPG Storage Vessel
Otogaz LPG Tank



Underground
Yeraltı Tankları



LPG SKID TANKS

TECHNICIAL SPECIFICATIONS

Tank Capacity: *Between 1 m³ and 115 m³*
Tank Class: *Class 2 (Gas)*
Products to be stored: *UN 1965 - Hydrocarbon gas mixture*
UN 1978 - Propane
UN 1011 - Butane
UN 1075 - Fuel-oil gas, liquefied
*- **Operating Temperature:** -20 'C+50°C*
*- **Design Standard:** EN 12542, EN 13445 / PED, CE BRAND, AD2000 Merkblatter, ASME U or U2 labeled, CODAP*

GENERAL SPECIFICATIONS

*Ready to use. Just connect the power line and turn on the switch. It is very easy to use Includes all necessary equipment, items and connections. Can be moved everywhere. All electrical accessories are ex-proof. *The equipment and machines conform to EU standards and are CE certified. hank is designed with cylindrical section and designed with the most durable and safest combination. -Our tanks use special high strength, fine grained, normalized "p" series pressure vessel steel in accordance with EN 10028-3. The mechanical and metallurgical properties of the steel are tested and verified. An elliptical bomb is used in tank heads with stress relieving according to standards. Manufacturing and quality processes are carried out under the supervision of an independent inspection body, in accordance with standards and procedures, by a qualified, experienced engineer. Welding is done by certified welders in accordance with standards and materials. Certified NDT personnel with competence and international competence in testing and controlling all welded joints. Once installed, all tanks are subjected to a hydrostatic pressure test. After this test, the connections of the tank accessories are tested with air against leaks. Outer surfaces of the tank are sandblasted at SA quality 2.5 before painting. Provide the best product to the customers by using corrosion resistant, long lasting, high quality two component paint products of paint companies which have proven internationally for dyeing*

HIGH QUALITY PAINT

The paint of our products is Epoxy, which ensures that the tanks are long-lasting in all conditions. The brands we use are those that have proven themselves and that have reached the output of us and our customers from past to present.


UNI-T
UT343D
334
COATING THICKNESS GAUGE
CAL
CLEAR


262

SHIPMENTS


ETTGAS
ETTGAS


ETTGAS


KONECRANES
DP WORLD

PRODUCTION AND QUALITY

ETTGAS Tank

Raising the Bar in LPG

Shipbuilding

Tradition of unmatched quality and service

Turkish made by skilled craftsmen

State-of-the-art coatings

Manufacturing techniques that simplify installation and tank access

Fixed pricing

On time delivery

Turnkey solutions from engineering to manufacturing and installation

Custom fabrication

LPG MEASUREMENT EQUIPMENTS

Mass Flow Meter

Industrial operations often consume a lot of LPG at a very fast rate. For these purposes, ETTGAS provides you the Mass Flow Meter, a unique device which is used to measure the mass of LPG consumed in different applications in the manufacturing process. The highly sensitive sensors giving us a direct measure of the flow of liquid aily in the pipe pick up and analyse flow changes.

Mechanic Filling Scales

Long-life & Durable
Easy Installation & Use
Adjustable to Different Type of Cylinders
Tested Security System
Low Maintenance & Service
Low Air Consumption

Electronic Filling Scale

An advanced technology for filling cylinders of all sizes.
Extremely accurate results.
Best solution for calculating your 57 aily/weekly/monthly or annual gas consumption.
Best solution for calculating your bonuses on time.
Can transmit data to computers via wired/wireless connections.
The software manages your data and controls of your whole plant.
Alternatively, you may prefer the printer-version which does not need a computer; but prints same accurate data whenever you wish

LPG Dispensers

Our range of products includes LG Dispensers with 1 nozzle up to 16 nozzles, all certified in compliance with internationally accepted safety standards, ATEX, MID and CE.

Transfer Pumps

Max Operation Pressure : 35
Ambient Temperature Range : -30°C to +50 °C
Maximum Capacity : 6,6 m^3/h
Maximum Speed : 1500 rpm
Inlet Size : PN40 DN65 Flanged

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