

## STORAGE OF LIQUID FUELS AND CHEMICAL PRODUCTS

(Fuel oil, diesel oil, aviation fuel, bio-fuel,  
Ethanol, Methanol, E85, Ad-blue,  
Pentane, Sulphuric acid ...)



## SERVICE STATIONS AND OWN CONSUMPTION

All capacities  
Single wall, Steel-Steel double wall and steel-HDPE double wall tanks  
Buried or above ground installation  
Compartmented tanks  
Small requirements  
Leak detection



# lapesa

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<b>CONTENTS</b>	<p>Consult all requirements. We have inside finishes and/or steels that are compatible with different products:</p> <ul style="list-style-type: none"> <li>• Fuels: <ul style="list-style-type: none"> <li>- Fuel oil, diesel oil, aviation fuel, bio-fuel, ad-blue ...</li> </ul> </li> <li>• Water: <ul style="list-style-type: none"> <li>- Cold water (food quality or non food quality), hot water...</li> </ul> </li> <li>• Chemical products: <ul style="list-style-type: none"> <li>Sulphuric acid, methanol, ethanol, E85...</li> </ul> </li> </ul>
<b>COMMON CONSTRUCTION CHARACTERISTICS</b>	<p>The tanks are built according to the following standards:</p> <p>Spanish Standards (UNE):</p> <ul style="list-style-type: none"> <li>• Tanks with a capacity of more than 3,000 litres: <ul style="list-style-type: none"> <li>- UNE 62350-1: Single wall tanks</li> <li>- UNE 62350-2: Horizontal double wall steel tanks</li> <li>- UNE 62350-3: Horizontal double wall steel-polyethylene tanks.</li> </ul> </li> <li>• Tanks with a capacity of up to 3,000 litres: <ul style="list-style-type: none"> <li>- UNE 62351-1: Single wall tanks</li> <li>- UNE 62351-2: Double wall steel tanks</li> <li>- UNE 62351-3: Double wall steel-polyethylene tanks</li> </ul> </li> <li>• Parallelepipedic above ground tanks with capacities of up to 2,000 litres: <ul style="list-style-type: none"> <li>- UNE 62352.</li> </ul> </li> </ul> <p>European Standard (EN)</p> <ul style="list-style-type: none"> <li>• Buried tanks: UNE-EN 12285-1</li> <li>• Above ground tanks: UNE-EN 12285-2</li> </ul> <p>(The characteristics of this catalogue correspond to tanks according to the Spanish UNE standard. Consult us for tanks according to European Standards, other standards, vertical tanks...)</p> <p>The tanks are built with rolled steel plate, according to EN 10025. The ends are in one single piece with diameters of up to 2,500 mm.</p> <p>They include reinforcement, under the inspection mouth, to protect from impacts with measuring rod.</p> <p>Compartmentation of tanks of any diameter.</p>
<b>CERTIFICATION</b>	<p>LAPESA supplies all of its tanks with inspection certificates according to UNE standards. At the customer's request a coating porosity test certificate, issued by LAPESA, can be provided.</p>
<b>SURFACE FINISHES TO ORDER</b>	<p>To order, we can supply our thick polyurethane finish for buried tanks in thicknesses of up to 2 mm.</p> <p>Also to order we can supply inner finishes for aggressive contents.</p> <p>Special treatment for storage of ad-blue.</p>
<b>OPTIONS</b>	<p>Our catalogue shows a wide range of models with capacities from 1,000 to 120,000 litres, with different options and accessories for each of them.</p> <p>If you have any other specific requirements please consult us.</p>
<b>ACCESSORIES</b>	<p>We have a series of accessories available, among which are access chambers, covers, cathodic protection anodes, leak detectors, level control equipment, prefabricated access chambers, double-locking foot valve (own design), anchorages, transfer equipment, etc. to facilitate and complete the installation.</p>
<b>TRANSPORT</b>	<p>We have our own fleet of trucks, of various capacities, all of which are equipped with cranes for unloading and are handled by highly specialised personnel to guarantee the best service for the transport and handling of the tank.</p> <p>We can place the tank inside the pit if the surrounding terrain allows the truck to position correctly.</p> <p>To protect the tank coating, support wedges are included to prevent it rubbing on ground and the trucks do not have high sides.</p>
<b>INSTALLATION</b>	<p>In no case does LAPESA install tanks.</p> <p>Installation should be carried out by a fitter, according to the following standards:</p> <ul style="list-style-type: none"> <li>- UNE 109500 IN: Installation of non-buried parallelepipedic steel tanks.</li> <li>- UNE 109501 IN: Installation of steel tanks above ground or in pit.</li> <li>- UNE 109502 IN: Installation of buried steel tanks.</li> </ul> <p>The location of the anchoring bolts should be checked against the tank. The bolts should never be embedded without checking previously against the tank.</p>
<b>TOLERANCES</b>	<p>According to applicable construction norms</p>

# ATMOSPHERIC TANKS

## SINGLE WALL tanks for buried installation

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### LF\*\*\* Models

#### Tanks built in steel plate

- Dimensions and features in accordance with EN 12285
- High mechanical strength steel according to EN 10025 Standard (carbon steel or stainless steel to order)
- Zinc-plated steel bolts at inspection manholes

#### Standard surface finishes

Exterior:

- Blasting to SA 2-1/2 grade.
- Thick polyurethane coating, minimum thickness 600 microns which guarantees electric test voltage >15 KV.
- Coating is highly resistant to corrosion of any origin and to liquid fuel spillages.
- This type of finish gives the tank an unbeatable external appearance.
- External protection can be increased by the use of cathodic protection anodes (see accessories)

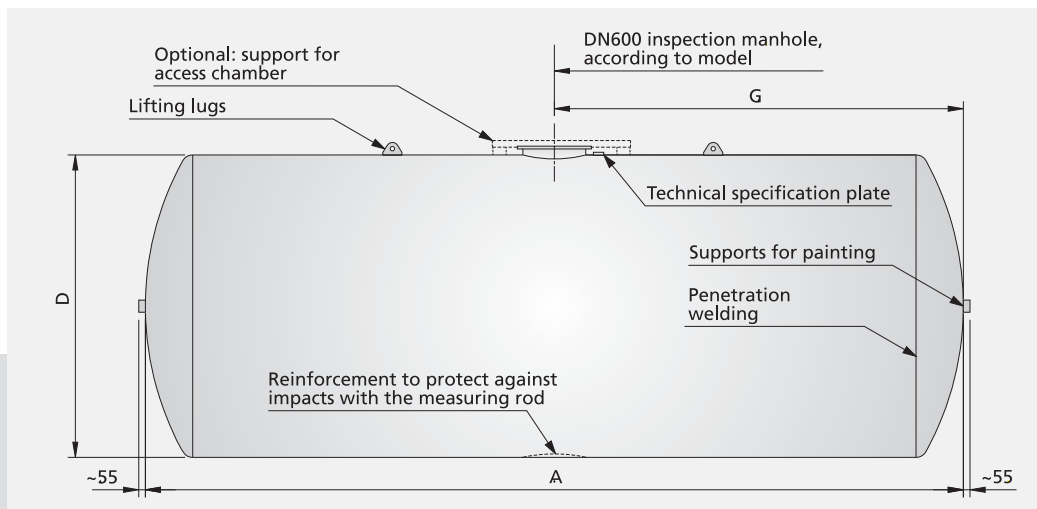
Interior:

- Clean

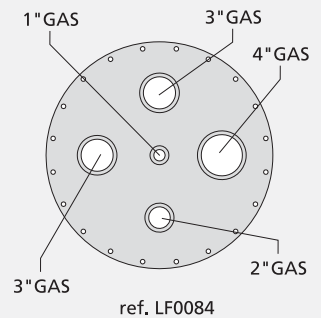
Other executions (to order):

- Storage tank in stainless steel.

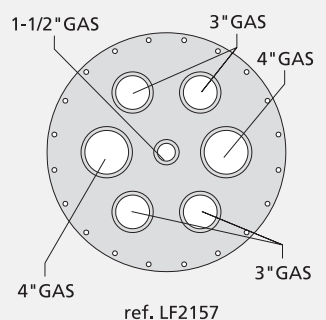
Interior finishes for specific contents: ad-blue, methanol, ethanol, aviation fuel, sulphuric acid, food quality cold water...



STANDARD MANHOLE COVER, NOMINAL DIAMETER 600



STANDARD INSPECTION MANHOLE COVER, NOMINAL DIAMETER 600



#### Characteristics Table

Rated capacity (litres)	Model Ref.	Approximate empty weight (Kg)	D	Dimensions (mm.) A	G
1000	LF 1000 (*)	160	856	1900	630
1500	LF 1500 (*)	220	1200	1500	750
2000	LF 2000 (*)	280	1200	1900	950
3000	LF 3000	430	1500	1990	1000
5000	LF 5000	740	1750	2340	1170
7500	LF 7500	950	1750	3400	1170
10000	LF 10	1200	1750	4550	1170
15000	LF 15	1850	2200	4300	3370
20000	LF 20	2250	2500	4600	1940
25000	LF 25	2650	2500	5580	2790
30000	LF 30	3000	2500	6580	3290
40000	LF 40	3800	2500	8560	3930
50000	LF 50	4650	2500	10740	5370
60000	LF 60	5500	2500	12720	5900
80000	LF 80	8550	3000	12090	6520
100000	LF 100	10550	3000	14840	7420
120000	LF 120	12250	3000	17590	9270

Other options:

- Covers with special connections.
- Additional inspection manhole.
- Tanks with several interior compartments.
- Other coating thicknesses (up to 2 mm.)

Transport:

To protect the coating of the tanks support wedges are used to prevent rubbing on ground and the trucks do not have high sides.



# ATMOSPHERIC TANKS

## DOUBLE WALL STEEL-STEEL tanks for buried installation

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### LFD\*\*\* Models

#### Interior and exterior tank in carbon steel (tank with spill containment included)

- Internal tank according to page 3.
- Dimensions and features in accordance with EN12285
- Zinc-plated steel bolts and screws at inspection manholes.
- Vacuum chamber between both walls to detect leaks (See detection devices).
- No civil works required for leak-proof containment. The double wall acts as a containment means.
- Tank built in EN 10025 standard steel (carbon steel or stainless steel to order) with high mechanical and deformation strength that enables it to absorb impacts, vibrations (transit of vehicles, etc.) or moderate earth movements. Adequate resistance to modern additives (alcohols, etc.)

#### Standard surface finishes

##### Exterior:

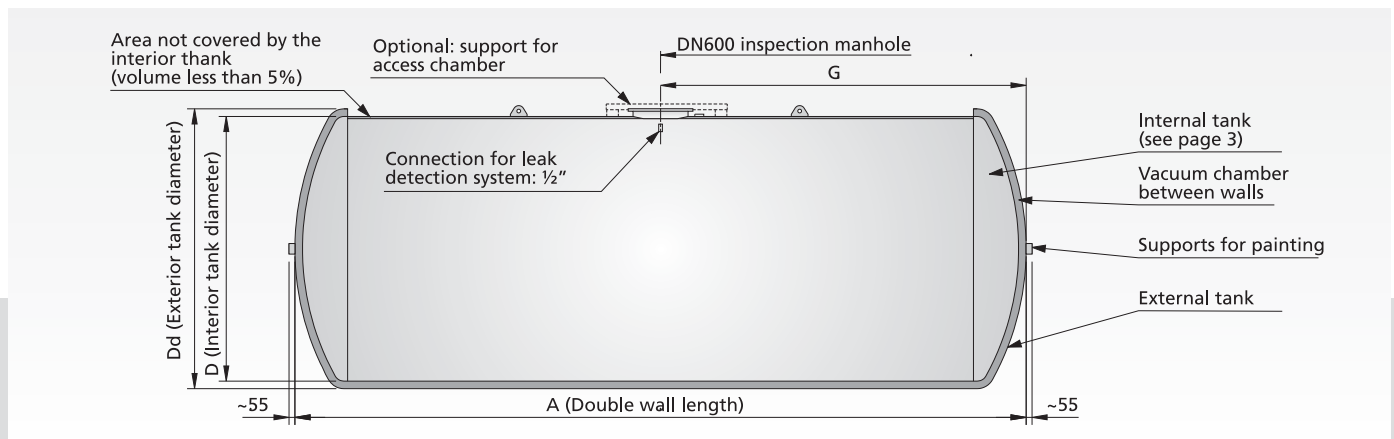
- Blasting to SA 2-1/2 grade.
- Thick polyurethane coating, minimum thickness 600 microns which guarantees electric test voltage >15 KV.
- Coating is highly resistant to corrosion of any origin and to liquid fuel spillages.
- This type of finish gives the tank an unbeatable external appearance.
- External protection can be increased by the use of cathodic protection anodes (see accessories)

##### Interior:

- Clean.

##### Other executions (to order):

- Storage tank in stainless steel.
- Interior finishes for specific contents: ad-blue, methanol, ethanol, aviation fuel, sulphuric acid, food quality cold water.



#### Characteristics table

Rated capacity (litres)	Model Ref.	Approximate empty weight (Kg)	D	Dimensions (mm.) A	G
1500	LFD 1500	350	1200	1510	760
2000	LFD 2000	450	1200	1910	960
3000	LFD 3000	700	1500	2000	1000
5000	LFD 5000	1100	1750	2350	1170
7500	LFD 7500	1500	1750	3410	1170
10000	LFD 10	1900	1750	4560	1170
15000	LFD 15	3000	2200	4310	3380
20000	LFD 20	3700	2500	4610	1950
25000	LFD 25	4550	2500	5590	2790
30000	LFD 30	5000	2500	6590	3290
40000	LFD 40	6250	2500	8580	3930
50000	LFD 50	7800	2500	10750	5370
60000	LFD 60	9050	2500	12730	5910
80000	LFD 80	13300	3000	12110	6520
100000	LFD 100	15850	3000	14860	7430
120000	LFD 120	18150	3000	17610	9270

**Standard supply:** see Single wall tanks, page 3

**Other options:** see page 3

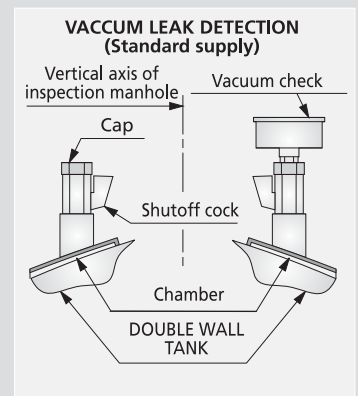
##### Leak detection:

- Standard supply: as shown in diagram, for vacuum detection of leaks
  - Vacuum carried out at factory.
  - Accessories fitted (compound gauge and shutoff cock)
- Optional supplies:
  - Chamber filled with glycol mix (for liquid leak detection)

Vacuum, pressure or liquid leak detection equipment. (See page 10)

##### Transport:

To protect the coating of the tanks support wedges are used to prevent rubbing on ground and the trucks do not have high sides.



# ATMOSPHERIC TANKS

## DOUBLE WALL STEEL-POLYETHYLENE tanks for buried installation

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### LFP\*\*\* Models

#### Interior tank in steel and exterior tank in Polyethylene (tank with spill containment included)

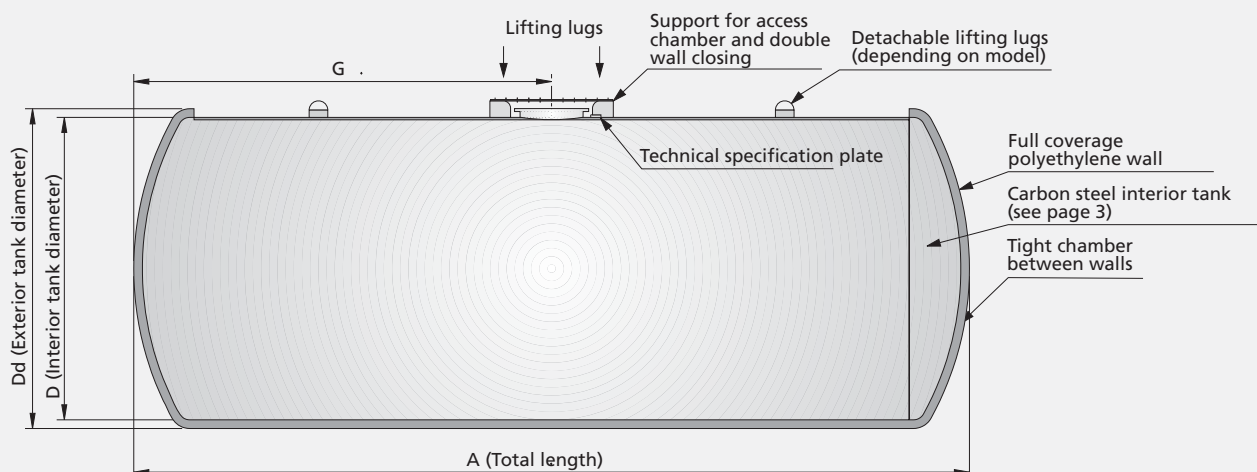
- Exterior tank built with polyethylene (PE) sheet. Interior tank in steel, according to page 3.
- Dimensions and features according to UNE 62350-3 Standard.
- Zinc-plated steel bolts and screws at inspection mouths and at the pit access chamber support.
- Tank is coated with PE sheets.
- Between both walls there is a tight chamber that allows the detection of leaks (see detection devices).
- No civil works required for leak-proof containment. The double wall acts as a containment means.

#### Steel interior tank:

- Tank built in EN 10025 standard steel (carbon steel or stainless steel to order) with high mechanical and deformation strength that enables it to absorb impacts, vibrations (transit of vehicles, etc.) or moderate earth movements. Adequate resistance to modern additives (alcohols, etc.)

#### Polyethylene (PE) jacket:

- The polyethylene material of the exterior tank:
  - acts as a safety containment means.
  - is a barrier to corrosion of any origin due to its high chemical stability.
  - completely covers the interior tank (except for the access area) thus preventing corrosion of the steel.
  - is resistant to liquid fuel spillages, to soils, water and many acids and bases.
  - is a dielectric material.
  - is a semi-rigid material allowing deformation without fracturing.
  - is resistant to impacts and vibrations (road traffic)
  - is made from laminated sheets and thus, is totally free of inner pores which may be present in other processes.



### Characteristics Table

Rated capacity (litres)	Model Ref.	Approximate empty weight (Kg)	D	Dimensions (mm.)		Thickness (mm.)			
				A	G	Jacket Collar	Jacket End	Inner tank Collar	Inner tank End
15000	LFP 15	1900	2500	3520	1760	3	6	6	6
20000	LFP 20	2350	2500	4620	2310	3	6	6	6
25000	LFP 25	2750	2500	5600	2630	3	6	6	6
30000	LFP 30	3150	2500	6600	3310	3	6	6	6
40000	LFP 40	3950	2500	8590	4290	3	6	6	6
50000	LFP 50	4900	2500	10760	5390	3	6	6	6
60000	LFP 60	5800	2500	12740	5610	3	6	6	6

**Standard cover:** see Single Wall tanks, page 3

**Access chamber support:** square 1000x1000 (890x890 clearance). For the installation of a prefabricated access chamber: see page 9

**Other options:** see page 3

#### Leak detection:

- Standard supply: as shown in diagram, for vacuum detection of leaks
  - Vacuum carried out at factory.
  - Accessories fitted (compound gauge and shutoff cock)

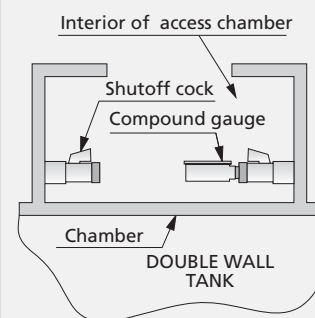
#### -Optional supplies:

- Vacuum, pressure or liquid leak detection equipment. (See page 10)

#### Transport:

To protect the coating of the tanks support wedges are used to prevent rubbing on ground and the trucks do not have high sides..

#### VACUUM LEAK DETECTION (Standard supply)



# ATMOSPHERIC TANKS

**SIMPLE and DOUBLE WALL STEEL-STEEL tanks for above ground installation**

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## LF\*\*\*P and LFD\*\*\*P Models

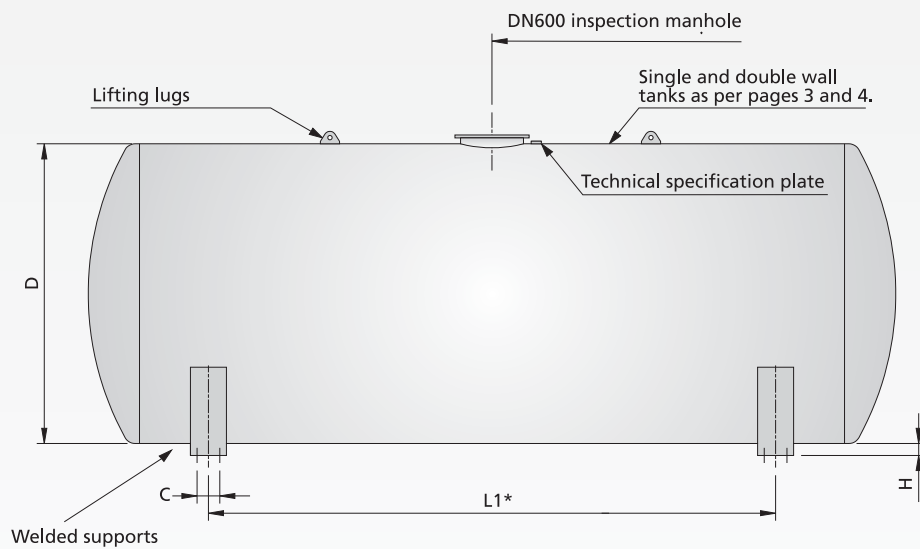
### Tanks built in steel plate

The tanks are of the same dimensions and construction characteristics as the models for buried installations and they have supports for their above ground installation.  
The supports are welded to the tank body and have the same surface finish.  
The figure below shows supports according to EN12285

### Standard surface finishes

Exterior:

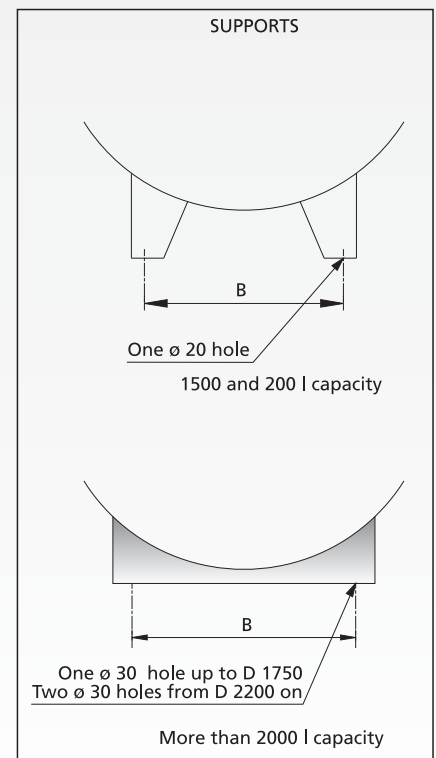
- Blasting to SA 2-1/2 grade.
- Anti-corrosion primer paint.
- White polyurethane finish.



#### IMPORTANT:

Place the tank anchoring bolts after the tanks has been installed on the baseplate.

\*L1 sizes to be confirmed by Lapesa before manufacturing



### Single wall

Rated capacity (litres)	Nominal diameter D	Model Ref.	Dimensions (mm.) L1
1500	1200	LF 1500 P	1020
2000	1200	LF 2000 P	1420
3000	1500	LF 3000 P	1300
5000	1750	LF 5000 P	1400
7500	1750	LF 7500 P	2300
10000	1750	LF 10 P	3400
15000	2200	LF 15 P	3000
20000	2500	LF 20 P	3200
25000	2500	LF 25 P	3700
30000	2500	LF 30 P	5150
40000	2500	LF 40 P	7100
50000	2500	LF 50 P	9300
60000	2500	LF 60 P	5450
80000	3000	LF 80 P	10300
100000	3000	LF 100 P	6425
120000	3000	LF 120 P	7800

### Double wall

Model Ref.	Dimensions (mm.) L1	H	Dimensions (mm.) B	C
LFD 1500 P	1020	100	740	-
LFD 2000 P	1420	100	740	-
LFD 3000 P	1300	75	1000	-
LFD 5000 P	1400	100	1200	-
LFD 7500 P	2300	100	1200	-
LFD 10 P	1700	100	1200	-
LFD 15 P	3000	100	1800	150
LFD 20 P	3200	100	2000	150
LFD 25 P	3700	100	2000	150
LFD 30 P	2575	100	2000	150
LFD 40 P	3550	100	2000	150
LFD 50 P	3100	100	2000	150
LFD 60 P	3400	100	2000	150
LFD 80 P	4500	100	2500	200
LFD 100 P	4200	100	2500	200
LFD 120 P	3900	100	2500	200

Standard cover: see single wall tanks, page 3

Other options: see page 3



# ATMOSPHERIC TANKS

Above ground tanks for **SMALL REQUIREMENTS** and **AUTONOMOUS UNITS** **lapesa**

## LFT\*\*\* and LFDUA\*\*\* Models

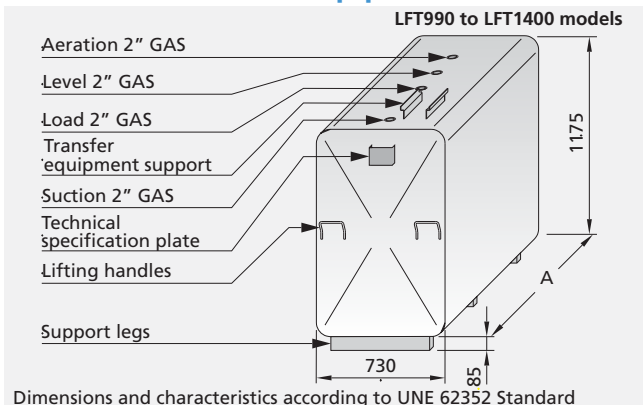
**LFT Models;** Tanks specially designed to connect transfer equipment in installations for own consumption.

- Tanks built in steel plate according to EN 10025 Standard.

SURFACE FINISHES: -Exterior

- Primer coat.
- White polyurethane finish.

### LFT Models - Parallelepipedic



### Characteristics table

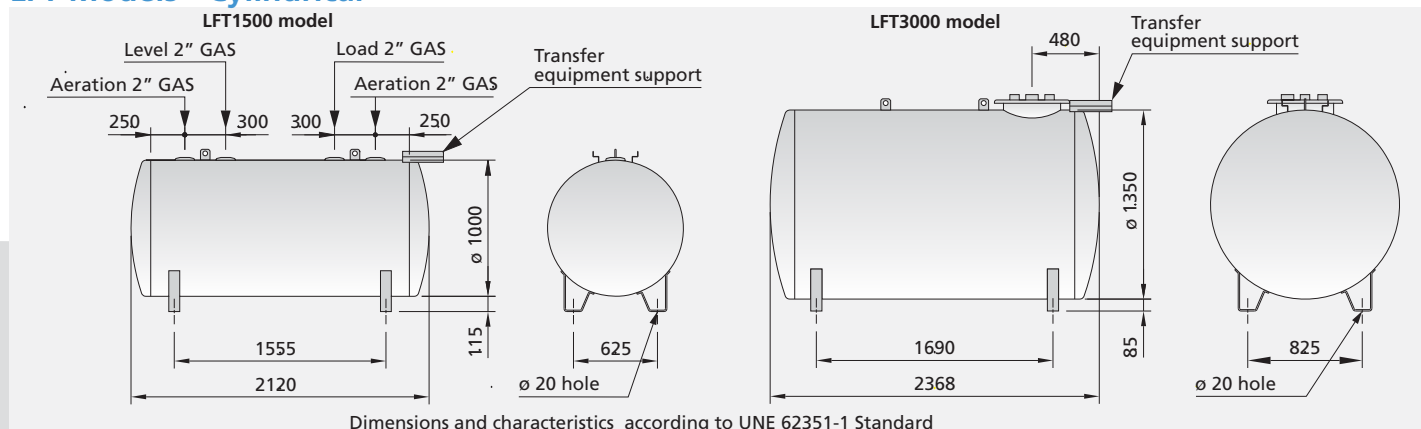
#### Parallelepipedic models

Rated capacity (litres)	Model Ref.	Approximate empty weight (Kg)	Dimensions (mm.) A	Thickness (mm.) Collar	End
990	LFT 990	120	1250	2	2
1200	LFT 1200	135	1500	2	2
1400	LFT 1400	150	1700	2	2

#### Cylindrical models

Rated capacity (litres)	Model Ref.	Approximate empty weight (Kg)	Thickness (mm.) Collar	End
1500	LFT 1500	190	2,5	3
3000	LFT 3000	360	3	3,5

### LFT Models - Cylindrical

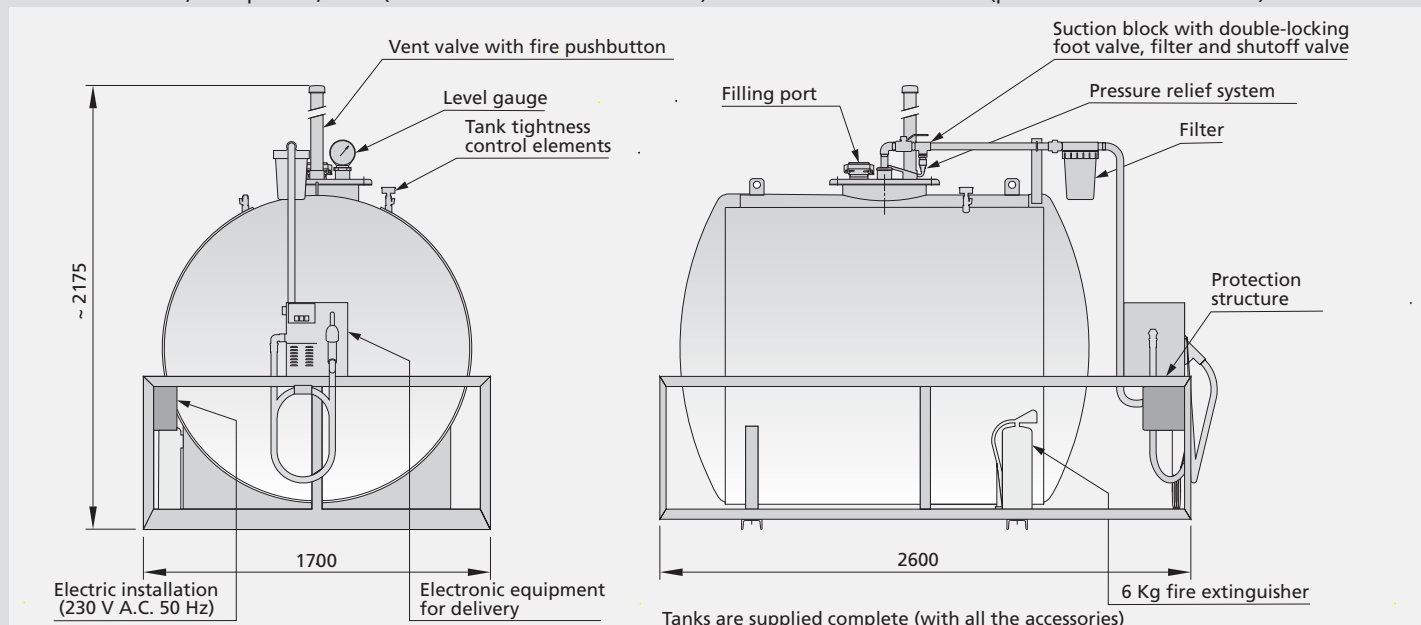


## LFDUA Models; Double wall steel tanks with protection structure and service equipment for diesel oil.

- Exterior steel tank according to page 3.
- Dimensions and characteristics according to UNE 62350-2 Standard (Larger than 3,000 l. And UNE 62351-2 (up to 3,000 l))
- Volumes: from 3,000 up to 15,000 l (model in the illustration: 3000 l)

SURFACE FINISHES: -Exterior.

- Primer coat.
- White polyurethane finish. (protection structure in red)



# ATMOSPHERIC TANKS

## VERTICAL tanks

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### LF\*\*\*V Models

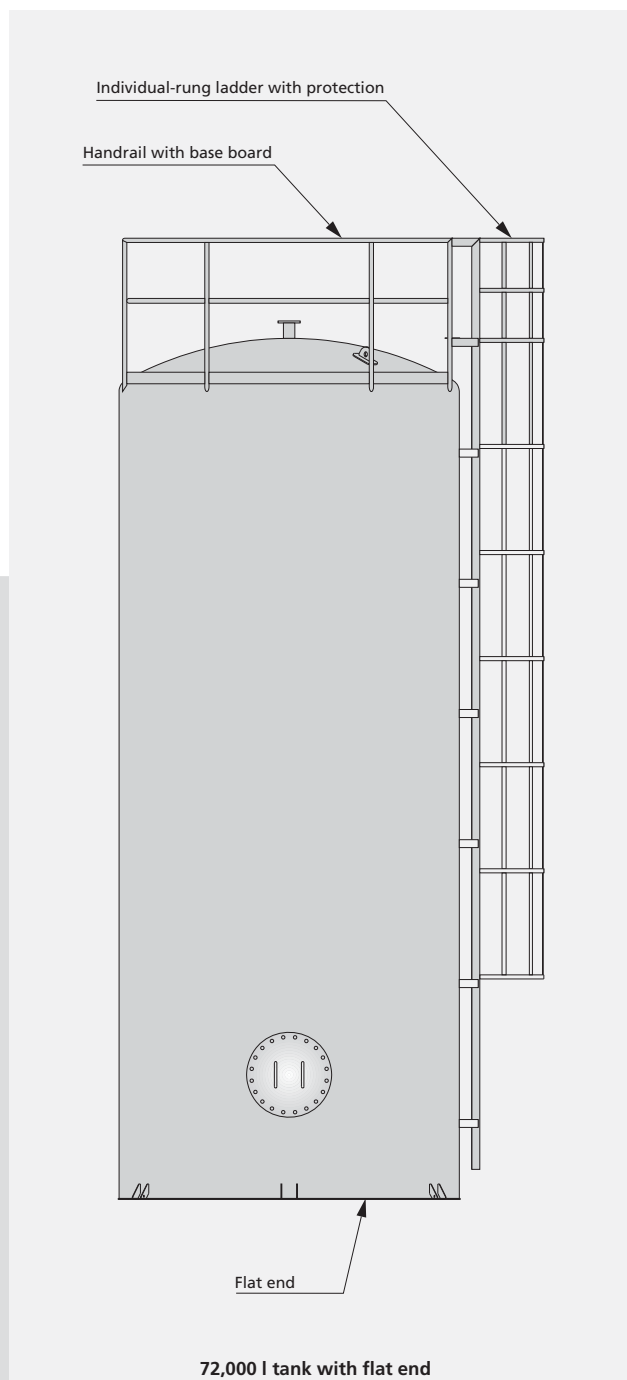
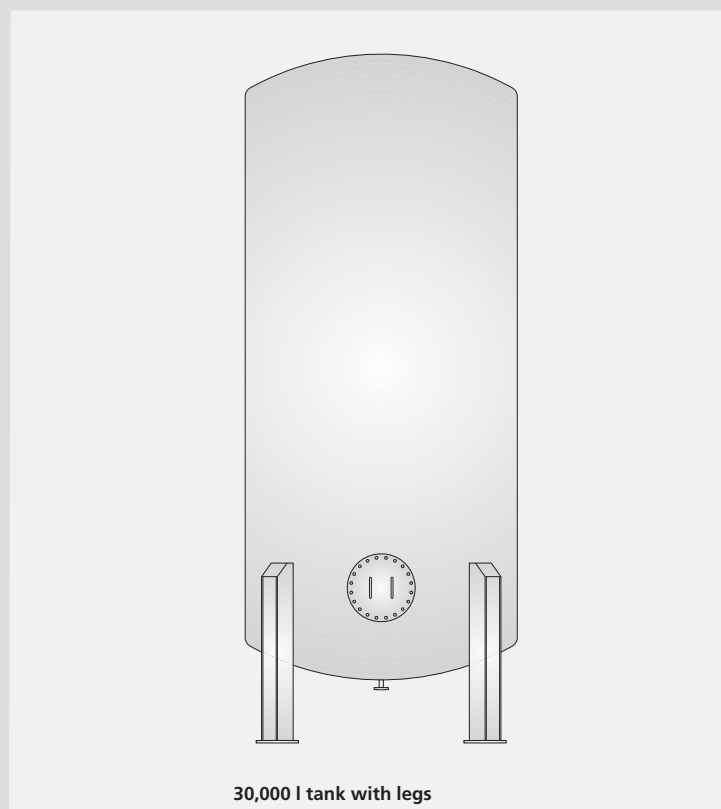
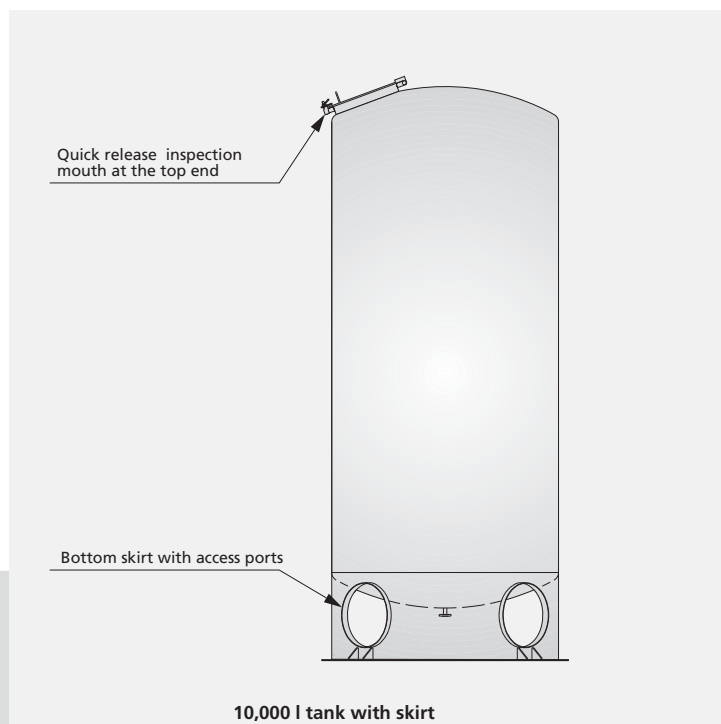
#### Single wall tanks for vertical installation.

We can adapt to your needs, let us know your requirements:

- Carbon steel or stainless steel .
- A range of interior and exterior finishes.
- Capacity up to 200 m<sup>3</sup>.
- Accessories (ladders, handrails, platforms..)
- Different constructive possibilities (see examples)

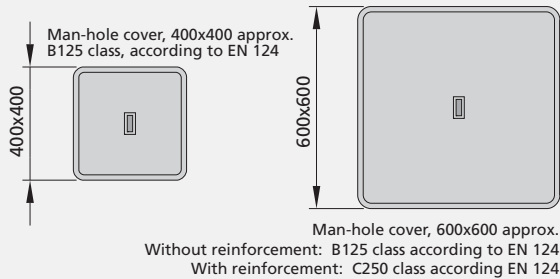
**SURFACE FINISHES:** -Exterior

- Primer coat.
- Polyurethane finish.

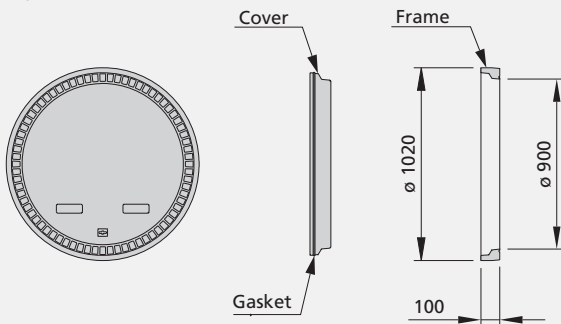


For an easier and faster installation

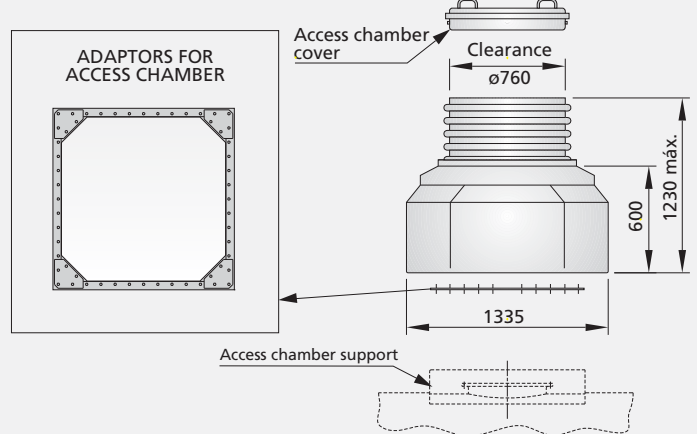
### MAN-HOLES WITH COVER (cast iron)



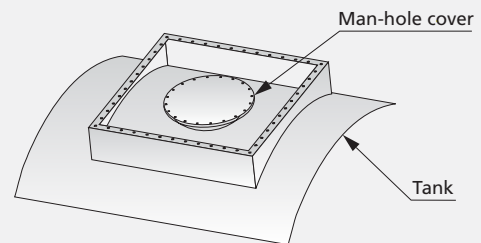
### FRP COVER WITH FRAME FOR PIT ACCESS CHAMBER (According to EN 124 European Standard, D400 class requirements) FRP: Fiberglass reinforced plastic.



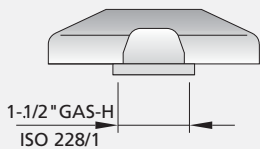
### REINFORCED POLYETHYLENE ACCESS CHAMBER



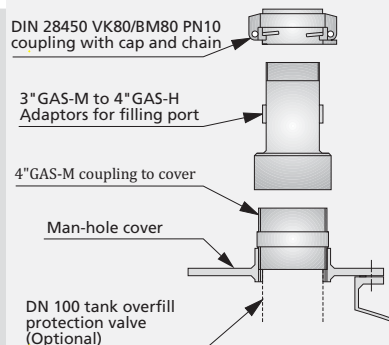
### SUPPORT FOR BOLTING THE PE ACCESS CHAMBER



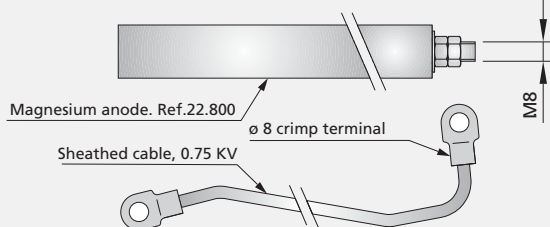
### AERATION "TEE" Tank aeration "tee" with grids at the inlets



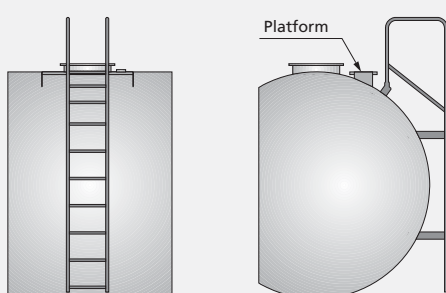
### FILLING PORT ADAPTORS Quick coupling for connection to discharge hose



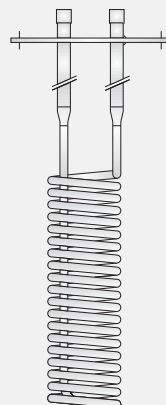
### ANODES AND CONNECTION CABLES FOR CATHODIC PROTECTION



### DETTACHABLE LADDER AND PLATFORMS

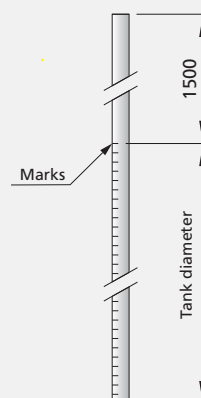


### COVER WITH COIL

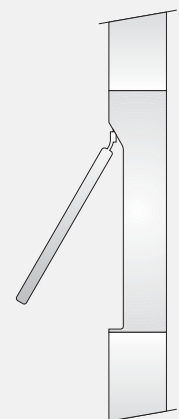


### MEASURING RODS (Aluminium)

Marks every one centimetre, with separate table for volumetric readings  
Marks



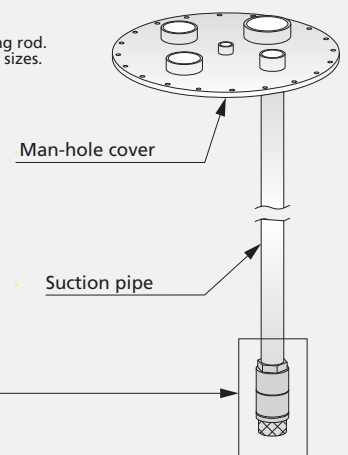
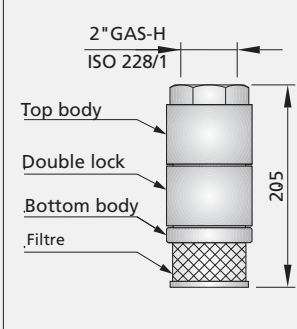
### OVERFILL PROTECTION VALVE Limit at 90%, it includes top and bottom pipes.



### EQUIPMENT FOR MAN-HOLES AND PORTS

- Equipped with complete suction elements
- Different number of suction elements.
- Discharge pipe and guide pipe for measuring rod.
- Covers for man-holes and ports of different sizes.

### DOUBLE LOCKING FOOT VALVE



# ATMOSPHERIC TANKS

## LEVEL CONTROL and LEAK DETECTION unit

**lapesa**

### FUGALARM leak detector

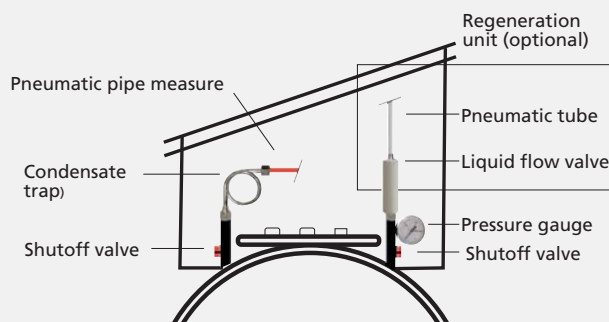


#### Models

- Fugalarm-V, Vacuum model
- Fugalarm-P, Pressure model

#### System features

- Complies with EN 13160 and has EC certification.
- Bleepers and lights to indicate system state.
- Large-format display screen showing degree of pressure or vacuum in the interstitial chamber, in absolute values.
- Test and stop buttons for alarms as well as for accessing menu options.
- Switched relays for remote alarm signalling.
- Zener barrier incorporated
- Size: 110 x 215 x 40



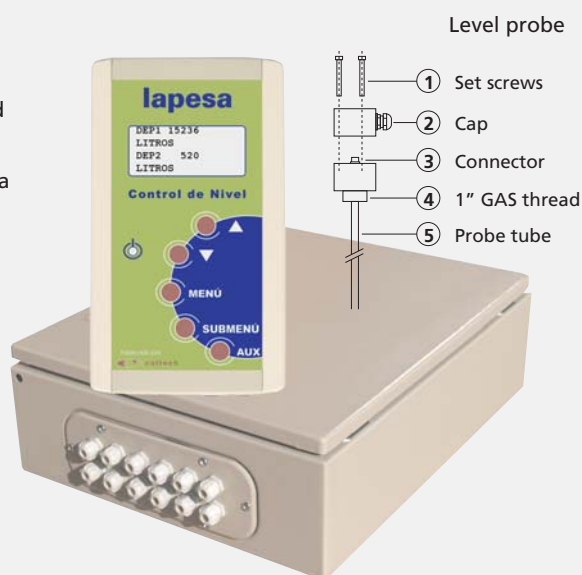
**OPTION:** pressure or vacuum maintenance unit can be supplied.

### Level control. Model NV2000

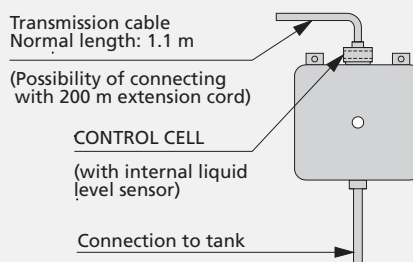
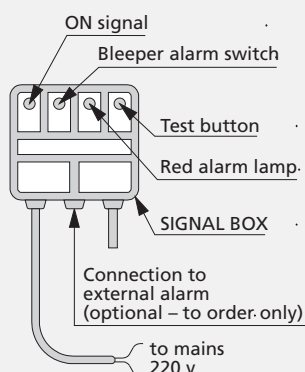
#### System features

- Electro-pneumatic level control system that enables 10 tanks to be measured by just one unit.
- Relative density of contained product must be less than 1.1.
- Units for denser products can be supplied to order.
- Electricity-free probes, with 1" GAS connection, 2500 mm long and made of brass and copper. Optional in stainless steel or plastic and lengths of up to 3,000 mm.
- Equipped with a control panel and display screen, keyboard for data input and relay to activate external alarms. It can be connected to LAN networks by TCP/IP protocol.

Model	Nº of tank
NV1001	1
NV1002	2
NV1003	3
NV1004	4
NV2005	5
NV2006	6
NV2007	7
NV2008	8
NV2009	9
NV2010	10



### BASIC LEAK DETECTION SYSTEM BY LIQUID LEVEL



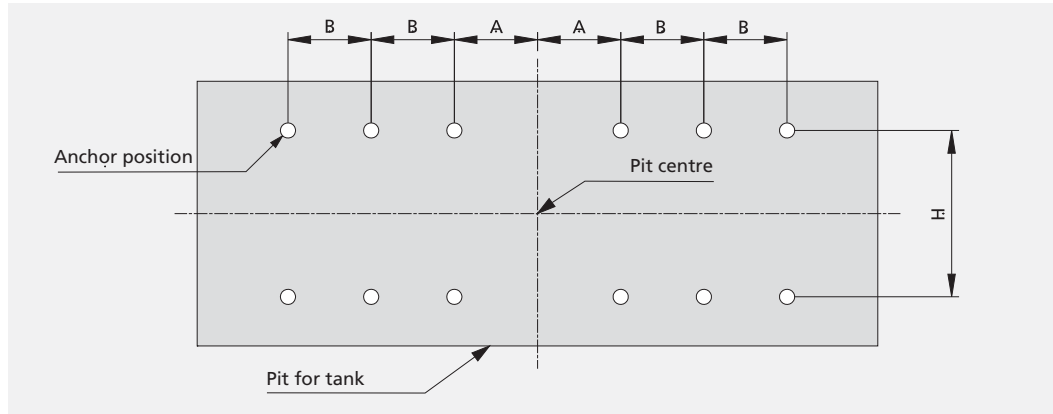
**OPTION: Tank chamber filled with antifreeze liquid (up to -20°C)**  
\* This equipment should only be fitted in DOUBLE-WALL STEEL tanks.

The following indications are valid for:

- Single or double-wall steel tanks or double-wall polyethylene tanks.
- 10 ton-capacity polyester tie-downs.
- Lapesa standard tanks.

### Number of tie-downs and position

The following shows the standard positions and number of anchors to be used for LAPESA tanks.



The way to proceed to fit the anchors is as follows:

1. Find the centre of the space in which the tank is to be installed.
2. To the right of the centre, position an anchor at distance A (see table).
3. Measuring from the last anchor, the following must be placed at distance B.
4. If the table indicates 3 x 1000 this means that 3 anchors must be fitted at a distance of 1000 mm from each other.
5. Repeat points 2 to 4 to the left of the centre.

Distance H will be calculated bearing in mind the diameter of the tank and the chosen installation criterion (standards, regulations..). If distance H is greater than the tank diameter, the anchors must be placed at an angle so that the tie-downs pull in the anchoring direction.

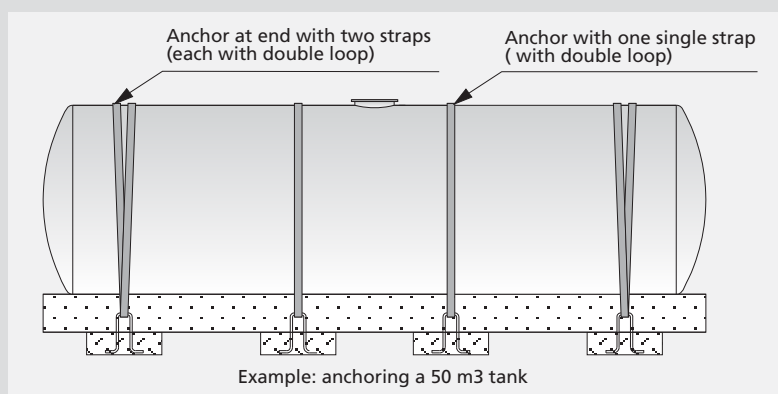
### Layout of tie-downs

Rated capacity (litres)	Model Ref.	Diameter (mm)	Nº. pairs of anchors	Nº. tie-downs	Dimensions (mm)	
					A	B
3000	LF 3000	1500	2	2	675	--
5000	LF 5000	1750	2	2	560	--
7500	LF 7500	1750	2	2	920	--
10000	LF 10	1750	2	2	1625	--
15000	LF 15	2200	2	2	1450	--
20000	LF 20	2500	2	2	1720	--
25000	LF 25	2500	2	4	2210	--
30000	LF 30	2500	2	4	2710	--
40000	LF 40	2500	4	4	1250	2450
50000	LF 50	2500	4	6	1790	3000
60000	LF 60	2500	4	6	1880	3900
80000	LF 80	3000	6	8	1050	2x2150
100000	LF 100	3000	8	10	1075	3x1925

As can be seen in the table, more tie-downs than anchors can be fitted, with two straps coinciding at the same anchor point. In this case, you must bear in mind that the tie-down straps have to be fitted as vertically as possible, without one mounting on top of another and without them tangling. Special care must be taken when tensing them.

The position of the tie-downs must be symmetrical in relation to the centre of the tank (there must not be more tie-downs on one side of the tank than the other).

Anchors with two tie-down straps must be at the end of the tank.





### PRODUCTS FOR LPG:

- Tanks for LPG, all capacities
- Tanks for propane service stations
- Tankers for the transport and transfer of LPG
- Vaporizers

### TANKS FOR LIQUID FUELS AND CHEMICALS

- Single wall tanks for underground installation
- Double wall steel-steel tanks for underground installation
- Double wall steel-polyethylene tanks for underground installation
- Single and double wall steel-steel tanks for aboveground installation
- Aboveground tanks for small consumption.

### TANKS FOR DHW STORAGE AND PRODUCTION

- Stainless steel tanks: double wall, heating coil and storage.
- Vitrified steel tanks: heating coil and storage.
- Special tanks for solar energy.
- Large capacity tanks for community and industrial use.
- Inertia tanks for cooling and heating circuits.

### PRESSURE TANKS

- Tanks for compressed air
- Tanks for nitrogen and oxygen (20 bar and 40 bar pressure)

### CYLINDERS AND TANKERS FOR TRANSPORT OF DANGEROUS GOODS

### CRYOGENIC TANKS FOR LNG

### SPECIAL BOILERMAKING

- Tanks for gases
- Tanks for corrosive liquids
- Tanks for ammonia, chlorine, refrigerant gases...



## REGIONAL SALES OFFICES

### CENTRAL AREA

D. Rafael Guitián López de Haro  
C/ Dr. Santero, 14 bajo izqda.  
28039 MADRID  
Tel. 91 533 92 44 / Fax 91 533 95 66 / Móvil: 617 40 76 62  
e-mail: rguitian@lapesa.es

### NORTH AREA

D. Luis Andrés Pérez Magaña  
C/ José M<sup>a</sup> Escuza, 27 Lonja  
48013 BILBAO  
Tel. 94 441 19 68 / Fax 94 427 60 09 / Móvil: 667 61 92 80  
e-mail: luisandresp@gmail.com

### SOUTH AREA

D. Manuel González Salazar  
Parque Ind. PISA  
C/ Artesanía, 23 nave 3-A  
41927 MAIRENA DE ALJARAFE (Sevilla)  
Tel. 95 418 03 34 / Fax 95 418 02 67 / Móvil: 629 21 28 48  
e-mail: calcenter@terra.es

### CATALUÑA AND BALEARES

D. Gemma Plata  
C/ Moscú, 32 - 1º / 2ª  
08005 BARCELONA  
Tel. 93 221 00 67 / Fax 93 221 17 19  
e-mail: lapesadb@lapesa.es

### LEVANTE

D. Javier Colomer Ramón  
C/ Arquitecti Segura Delago, 23 - 2º bajo dcha.  
46014 VALENCIA  
Tel. 96 377 12 26 / Fax 96 377 28 65 / Móvil: 656 40 92 12  
e-mail: ecolomer@lapesa.es

### ARAGÓN AND LA RIOJA

D. Vicente Ruiz López  
C/ Rosalía de Castro, 13 local  
50015 ZARAGOZA  
Tel. 976 73 25 71 / Fax 976 73 60 81 / Móvil: 617 40 76 34  
e-mail: jvr157@terra.es

### LLEIDA AND ANDORRA

D. Germán Arnillas López  
Polígono Valdeconsejo. C/ Monteperdido, Parcela B-14  
50014 CUARTE DE HUERVA (ZARAGOZA)  
Tel. 876 26 10 22 / Fax 876 26 10 27 / Móvil: 618 55 18 82  
e-mail: german.arnillas@lapesa.es

lapesa

**lapesa**

**Lapesa Grupo Empresarial**

Polígono Malpica - Calle A, Parcela 1-A  
50016 ZARAGOZA (SPAIN)

Tel. (0034) 976 46 51 80 / Fax (0034) 976 57 43 93

e-mail: [lapesa@lapesa.es](mailto:lapesa@lapesa.es)