

## AUTOGAS SKIDS

- Horizontal aboveground SKID
- Vertical aboveground SKID
- Underground SKID

- Stand-alone LPG storage units with pumping equipment and dispenser incorporated in a frame.
- Includes transfer equipment to allow the supply of gas in liquid phase to vehicles, with the maximum guarantee of safety.
- Simplified installation: only requires connection of power supply to the unit and anchoring to the ground (with earth connection).

### MODELS:

#### HORIZONTAL TANK

- LPUA\*\*: with filling column
- LPUA\*\*S: with dispenser
- LPUA\*\*P: without dispenser or filling column
- LPUA\*\*E: for underground installation with various pump types

#### VERTICAL TANK

- LPUA\*\*V: with filling column
- LPUAV\*\*S: with dispenser
- LPUAV\*\*P: without dispenser or filling column

### DIRECTIVES:

- Pressure equipment: 2014/68/UE
- Machinery: 2006/42/CE
- ATEX: 2014/34/UE
- Low voltage: 2014/35/UE
- Electromagnetic compatibility: 2014/30/UE

### NORMS:

- EN14678
- UNE60630

### COMPOSITION:

**LPG STORAGE TANK:** Standard Lapesa tank with a design pressure of 20 bar and special connections for transfer unit.

**FRAME:** A support structure that houses the complete installed unit.

#### LPG TRANSFER LINES:

- Liquid phase outlet line: Includes limiter, shutoff valve and filter for liquid LPG placed before the pump.
- Return line to tank (protects the pump from overpressure) with a by-pass valve.
- Pump-to-dispenser transfer line: Includes safety valve and pressure gauge (LPUA types include shutoff valve with the supply column, in LPUAS model the shutoff valve is integrated in the dispenser).

**LPG TRANSFER PUMP:** Specific for LPG in liquid phase.

Nominal values for standard pumps:

- Aboveground skids: 40 l/min (up to 5 bar differential pressure).
- Underground skids LPUA\*\*E-BME: 114 l/min (up to 10 bar differential pressure).
- Underground skids LPUA\*\*E-BMS: 90 l/min (up to 10 bar differential pressure).
- Underground skids LPUA\*\*E-BSME: 65 l/min (up to 16,5 bar differential pressure).

#### SUPPLY UNIT:

- Hose specific for LPG, compliant with EN14678-1 and EN1762.
- Break away included in hose.

- European nozzle according to EN13760.
- Distances to supply unit allow the placement of fencing in the storage area.
  - Tanks with filling column: Include hose with nozzle, break-away, start/stop button ("dead man" type), push-button for emergency stop, housing for nozzle. Equipment designed for use with own truck fleet, where commercial transactions are not performed and where number of liters exchanged is not required.
  - Tanks with dispenser: Besides the usual items of a dispenser, it also includes totalizers of liters and euros. Equipment designed for installation in service stations, or for consumption control in own truck fleet.
  - Units for underground use: Supplied without supply unit (filling column or dispenser). They are ready for use with dispenser.

**ELECTRICAL INSTALLATION:** Skids with filling column or dispenser include the electrical installation. Skids without supply unit do not include the electrical installation in their standard configuration.

Electrical installation complies with the Spanish norm for low voltage installations and its annex ETB026 (areas with risk of explosion).

Includes:

- Hoses with mechanical protection, length 30 meters, connected at both ends. Three types of hoses are present:
  - Between pump and cabinet.
  - Between supply unit and cabinet.
  - Between pump and supply unit.

- Electrical cabinet complete will necessary items (limiter, differential, motor-saver). It must be installed in safe zone (outside of ATEX zone). Installation designed for triphasic electrical connection.

**ELECTRICAL ACTUATOR (OPTIONAL):** Electrical actuator on liquid phase outlet. This device closes flow when emergency stop is pressed or when the electric supply is down. Specially recommended for skids without supply unit (LPUASP\*\*)

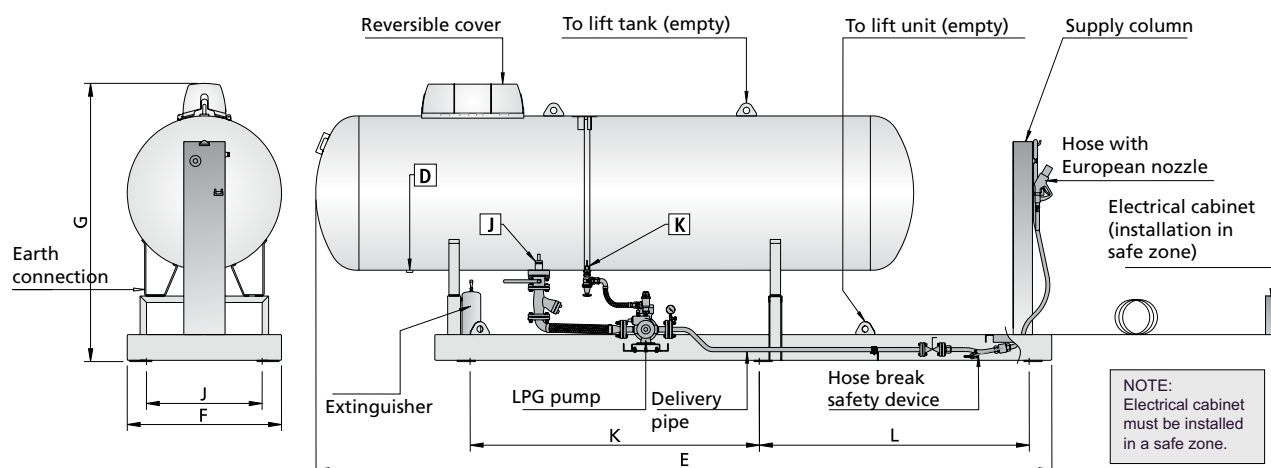
**BREAKAWAY COUPLINGS (OPTIONAL):** Excess flow valves with breakaway coupling (shear valve), to avoid leakage of LPG, in case a vehicle crashes into the dispenser.

**PREVENTION/SAFETY:** Dry-powder fire extinguishers according to LPG tank size, incorporated in the frame unit. The electrical cabinet should be located in a safe zone.

**SUPPLY AND TRANSPORT OF VERTICAL SKIDS WITH DISPENSER OR FILLING COLUMN:** Except for LP2450 and LP4880 models, vertical tanks with supply unit are sent as two independent units due to transport requirements:

- Block with tank and pump.
- Block with dispenser or filling column.

The mounting operation of these blocks is easy, and will be done with the nuts and bolts included in the supply. The pipes are mounted through their corresponding flanges and gaskets (bolts, nuts and gaskets included in supply).



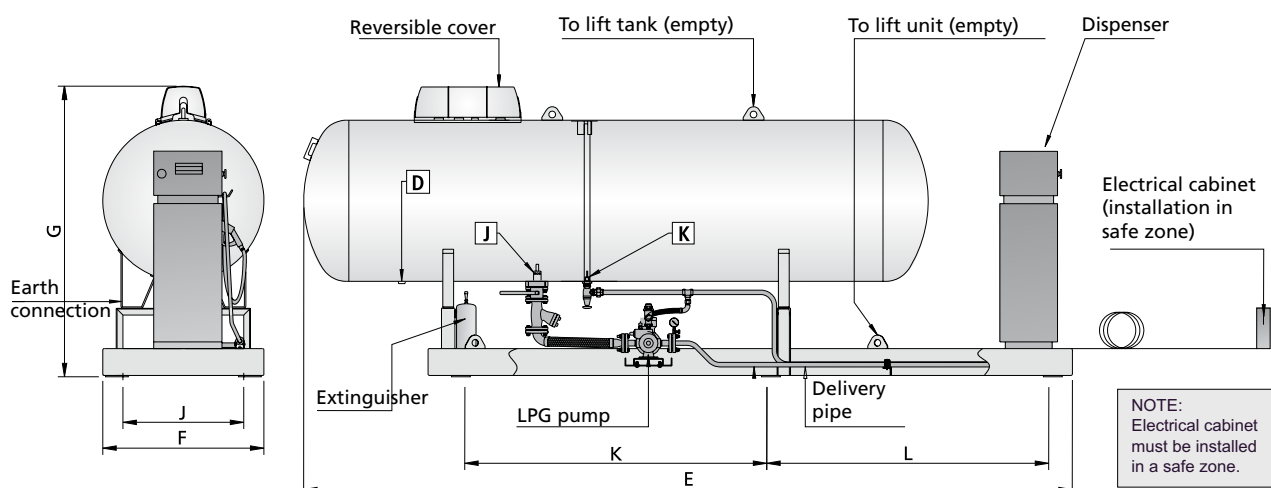
## LPUA\*\*

Stand-alone units with filling column (supply hose, "deadman" button and emergency pushbutton). Ideal for in-house consumption, where no commercial transactions are carried out and the litres supplied do not need to be recorded. Supplied with electrical installation.

### CHARACTERISTICS TABLE

Model Ref.	Approx. empty weight. (Kg.)	Dimensions (mm) of unit			Dimensions (mm) of anchors			Function	Tank diameter			
		E	F	G	J	K	L		D1200	D1500	D1750	Thread
LPUA1000	590	2.080	1.470	1.650	600	1.400	-	Filling	1-1/4"	1-1/4"	1-1/4"	NPT-H
LPUA2450	1.115	4.425	1.200	2.165	900	1.250	2.450	High point and diameter	3/4"	3/4"	3/4"	NPT-H
LPUA4880	1.585	6.540	1.200	2.165	900	2.250	2.915	Drain	3/4"	1-1/4"	1-1/4"	NPT-H
LPUA6650	2.010	8.135	1.200	2.165	900	3.150	3.265	Magnetic level	Rochester Junior	Rochester Junior	Rochester Junior	--
LPUA8334	2.390	9.715	1.200	2.165	900	3.950	3.650					
LPUA10	2.865	7.940	1.500	2.470	1.200	3.210	3.135	Safety	1-1/4"	1-1/4"	2"	NPT-H
LPUA13	3.505	9.680	1.500	2.470	1.200	4.010	3.605					
LPUA20	5.120	10.560	1.700	2.625	1.400	4.210	4.075					

### TANK CONNECTIONS



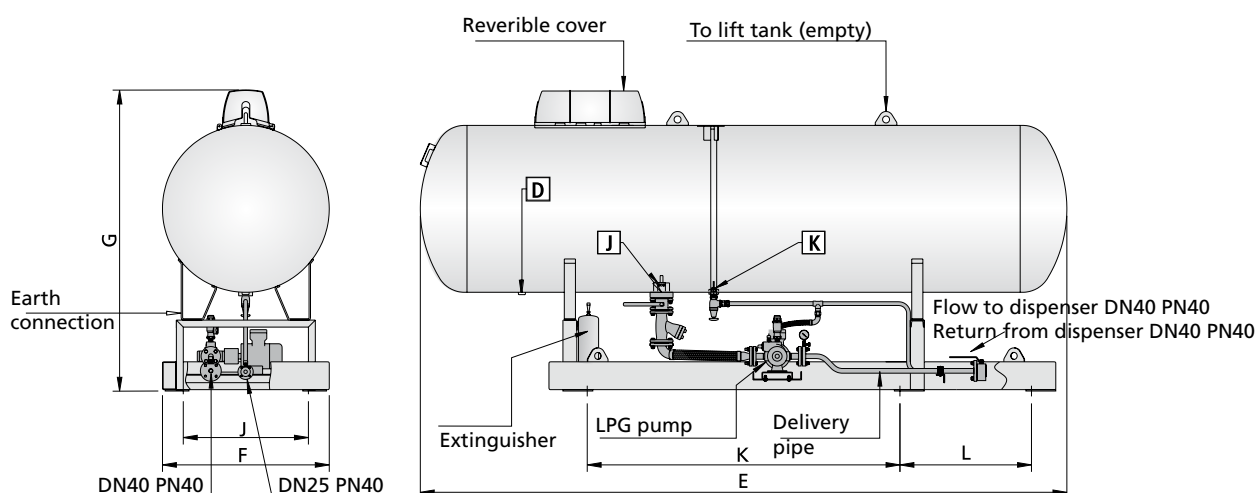
## LPUAS\*\*

Stand-alone units with dispenser (incorporating litre and price totalizer and other items). Supplied with electrical installation.

### CHARACTERISTICS TABLE

Model Ref.	Approx. empty weight. (Kg.)	Dimensions (mm) of unit			Dimensions (mm) of anchors			Function	Tank diameter			
		E	F	G	J	K	L		D1200	D1500	D1750	Thread
LPUAS2450	1.200	4.425	1.200	2.165	900	1.250	2.450	Filling	1-1/4"	1-1/4"	1-1/4"	NPT-H
LPUAS4880	1.690	6.540	1.200	2.165	900	2.250	2.915	High point and diameter	3/4"	3/4"	3/4"	NPT-H
LPUAS6650	2.100	8.135	1.200	2.165	900	3.150	3.265	Drain	3/4"	1-1/4"	1-1/4"	NPT-H
LPUAS8334	2.500	9.715	1.200	2.165	900	3.950	3.650	Magnetic level	Rochester Junior	Rochester Junior	Rochester Junior	--
LPUAS10	2.960	7.940	1.500	2.470	1.200	3.210	3.135					
LPUAS13	3.600	9.680	1.500	2.470	1.200	4.010	3.605	Safety	1-1/4"	1-1/4"	2"	NPT-H
LPUAS20	5.180	10.560	1.700	2.625	1.400	4.210	4.075					

### TANK CONNECTIONS

**LPUASP\*\***

Stand-alone units without filling column or dispenser. The dispenser is to be installed in a separate booth or alongside the rest of the dispensers at the petrol station.

**CHARACTERISTICS TABLE****TANK CONNECTIONS**

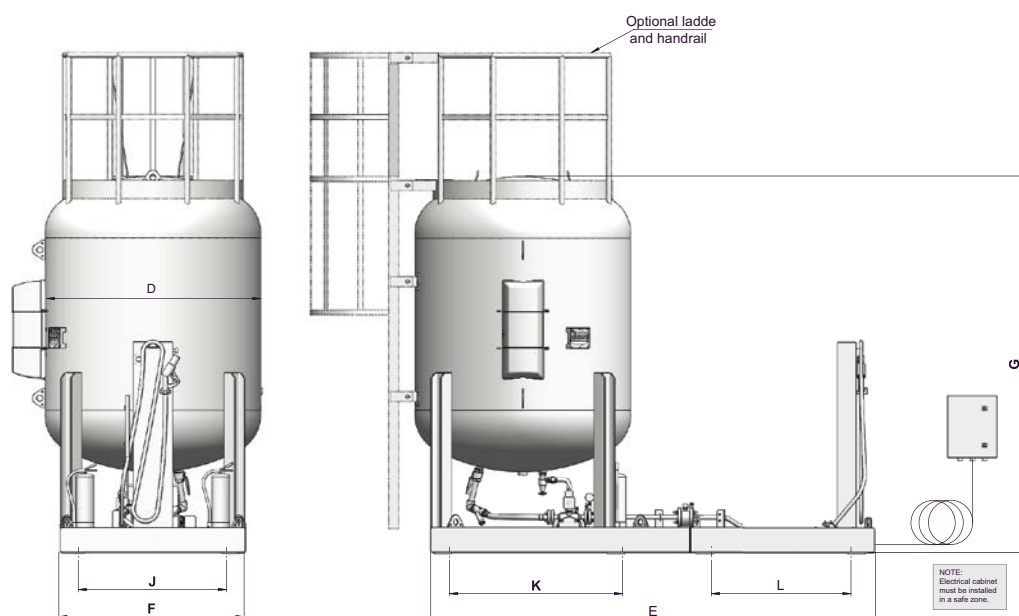
Model Ref.	Approx. empty weight. (Kg.)	Dimensions (mm) of unit			Dimensions (mm) of anchors			Function	Tank diameter			
		E	F	G	J	K	L		D1200	D1500	D1750	Thread
LPUASP2450	1.010	2.900	1.200	2.165	900	1.250	875	Filling	1-1/4"	1-1/4"	1-1/4"	NPT-H
LPUASP4880	1.530	4.650	1.200	2.165	900	2.250	945	High point and diameter	3/4"	3/4"	3/4"	NPT-H
LPUASP6650	1.950	6.240	1.200	2.165	900	3.150	1.290	Drain	3/4"	1-1/4"	1-1/4"	NPT-H
LPUASP8334	2.330	7.825	1.200	2.165	900	3.950	1.685	Magnetic level	Rochester Junior	Rochester Junior	Rochester Junior	--
LPUASP10	2.790	6.050	1.500	2.470	1.200	3.210	1.165					
LPUASP13	3.450	7.785	1.500	2.470	1.200	4.010	1.635	Safety				
LPUASP20	4.980	8.760	1.700	2.625	1.400	4.210	4.075		1-1/4"	1-1/4"	2"	NPT-H



**SPECIAL DESIGNS "L" SHAPE**  
for installation in places with reduced space or to facilitate access to vehicles (please consult)

## LPUA\*\*V

Stand-alone units with filling column (supply hose, "deadman" button and emergency pushbutton). Supplied with electrical installation. Ideal for in-house consumption, where no commercial transactions are carried out and the litres supplied do not need to be recorded. Due to their large dimensions, for transport purposes the skid is supplied loose, to be mounted to tank at destination, except for LPUA2450V and LPUA5000V models.

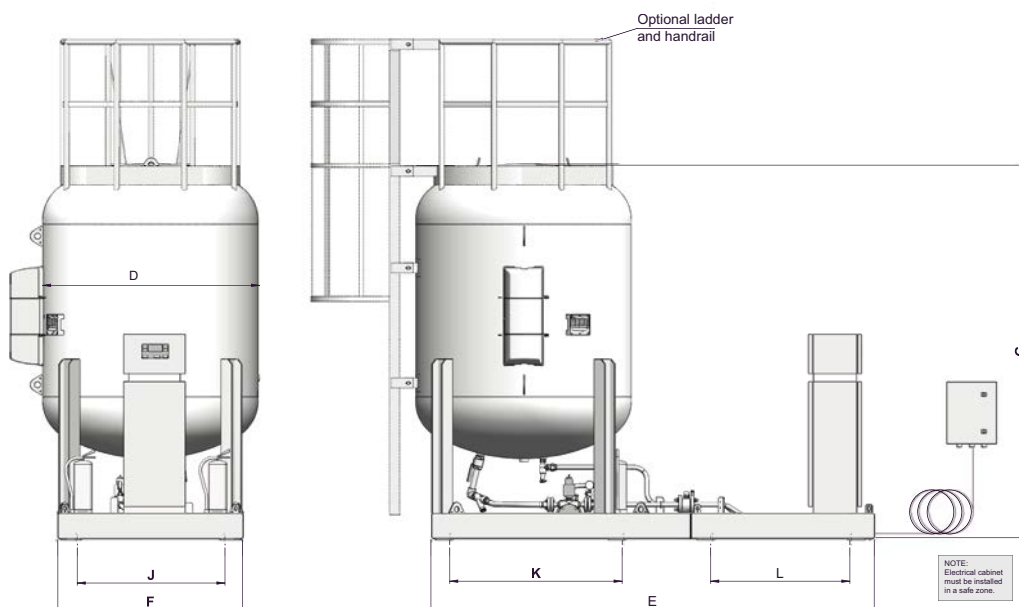


### CHARACTERISTICS TABLE

Model Ref.	weight. (Kg.)	Dimensions (mm)							TANK CONNECTIONS		
		D	E	F	G	J	K	L	Connection	Size	Thread
LPUA2450V	1.262	1.200	3.600	1.360	3.050	1.130	1.140	--	Filling	1-1/4"	NPT-H
LPUA5000V	1.820	1.750	3.600	1.500	3.100	1.230	1.400	--	High point and diameter	3/4"	NPT-H
LPUA6650V	2.368	1.750	5.300	1.500	3.840	1.230	1.400	2.875	Drain	1-1/4"	NPT-H
LPUA8400V	2.958	1.750	5.400	1.500	4.570	1.230	1.400	2.975	Magnetic level	Rochester Junior	--
LPUA13V	4.188	1.750	5.760	1.500	6.510	1.230	1.400	3.335	Safety	1-1/4"	NPT-H

## LPUAS\*\*V

Stand-alone units with dispenser (incorporating litre and price totalizer and other items). Supplied with electrical installation. Due to their large dimensions, for transport purposes the skid is supplied loose, to be mounted to tank at destination, except for LPUAS2450V and LPUAS5000V models.



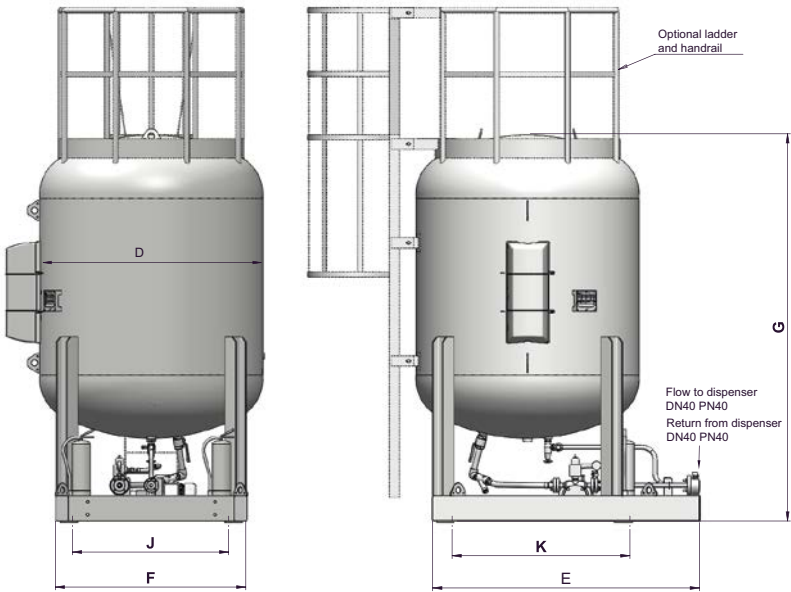
### CHARACTERISTICS TABLE

Model Ref.	weight. (Kg.)	Dimensions (mm)							TANK CONNECTIONS		
		D	E	F	G	J	K	L	Connection	Size	Thread
LPUAS2450V	1.341	1.200	3.600	1.360	3.050	1.130	1.140	--	Filling	1-1/4"	NPT-H
LPUAS5000V	1.890	1.750	3.600	1.500	3.100	1.230	1.400	--	High point and diameter	3/4"	NPT-H
LPUAS6650V	2.447	1.750	5.300	1.500	3.840	1.230	1.400	2.875	Drain	1-1/4"	NPT-H
LPUAS8400V	3.037	1.450	5.400	1.500	4.570	1.230	1.400	2.975	Magnetic level	Rochester Junior	--
LPUAS13V	4.267	1.750	5.760	1.500	6.510	1.230	1.400	3.335	Safety	1-1/4"	NPT-H



**LPUASP\*\*V**

Stand-alone units without filling column or dispenser.  
The filling column or dispenser must be installed at the required distance away from this unit.  
The standard unit does not include electrical installation.



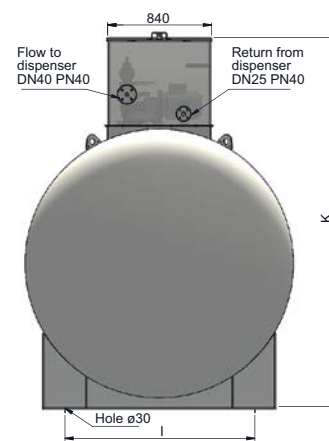
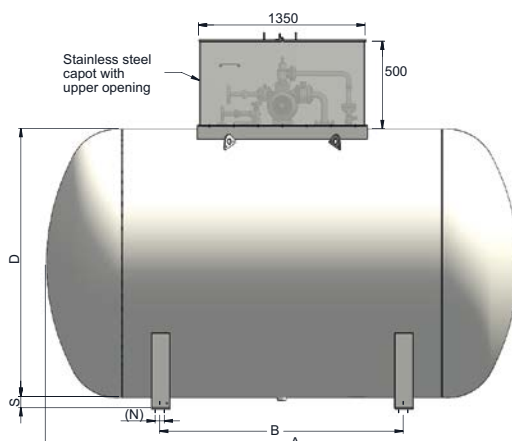
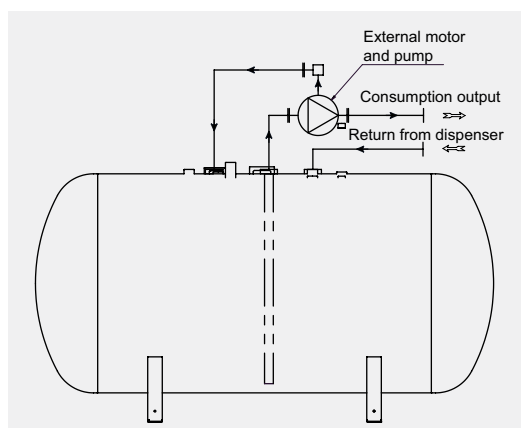
CHARACTERISTICS TABLE

Model Ref.	weight. (Kg.)	Dimensions (mm)					
		D	E	F	G	J	K
LPUASP2450V	875	1.200	1.660	1.360	3.050	1.130	1.140
LPUASP5000V	1.680	1.750	2.230	1.500	3.100	1.230	1.400
LPUASP6650V	2.160	1.750	2.230	1.500	3.840	1.230	1.400
LPUASP8400V	2.750	1.750	2.230	1.500	4.570	1.230	1.400
LPUASP13V	3.980	1.750	2.230	1.500	6.510	1.230	1.400

TANK CONNECTIONS

Connection	Size	Thread
Filling	1-1/4"	NPT-H
High point and diameter	3/4"	NPT-H
Drain	1-1/4"	NPT-H
Magnetic level	Rochester Junior	--
Safety	1-1/4"	NPT-H





## LPUA\*\*E-BME

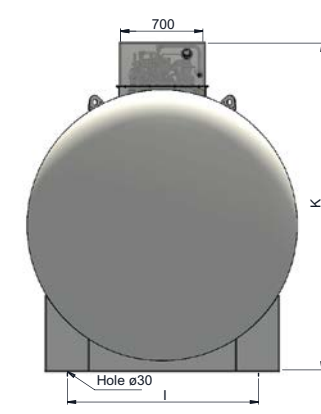
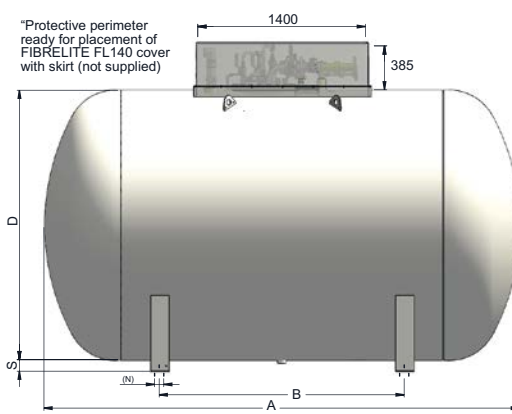
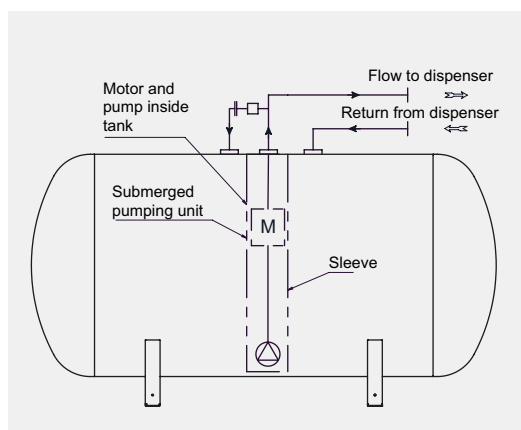
Group motor-pump installed out of the tank, inside the capot, which allows for easy maintenance.  
Unit designed for installation in areas WITHOUT TRANSIT over the capot.

### CHARACTERISTICS TABLE

Model Ref.	weight. (Kg.)	D	A	B	Dimensions (mm)				
					I	K	S	N	P
LPUA4950E-BME	1.380	1.500	3.140	1.500	1.000	2.200	200	--	1
LPUA10E-BME	2.440	1.500	6.050	3.500	1.000	2.200	200	--	1
LPUA13E-22-BME	3.400	2.200	3.880	2.000	1.560	2.930	93	75	2
LPUA33E-BME	7.600	2.200	9.260	5.500	1.560	2.930	100	75	2

### TANK CONNECTIONS

Connection	Size	Thread	Coupling acc. to
Filling	1-1/4"	NPT-H	--
Flow to dispenser	DN40	--	EN 1092-1 PN40
Return from dispenser	DN25	--	EN 1092-1 PN40
Magnetic level	Rochester	--	--
Safety	1-1/4"	NPT-H	--
Drain (with dip pipe)	1-1/4"	NPT-H	--
Manometer and high point	3/4"	NPT-H	--
Magnetic level	1-1/4"	NPT-H	--
Reserve connection	1-1/4"	NPT-H	--



## LPUA\*\*E-BMS

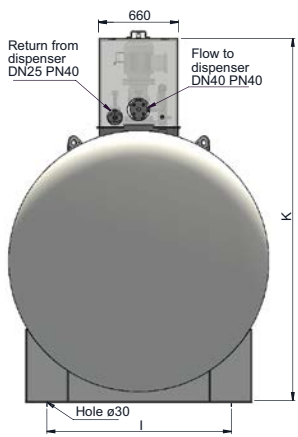
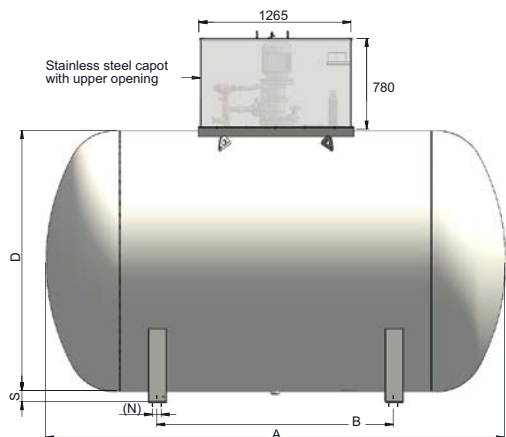
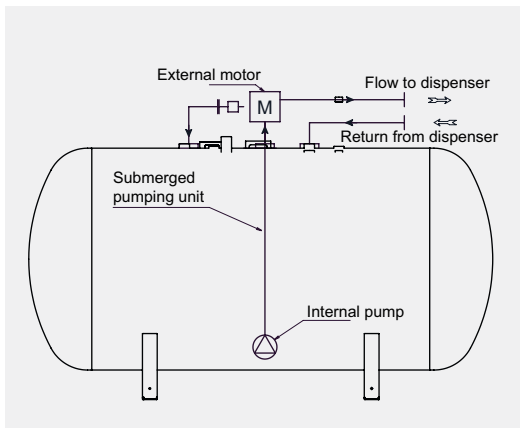
Group motor-pump submerged inside the tank, inside inner sleeve, which can be unmounted without needing to empty the tank.  
Unit designed for installation in areas WITH TRANSIT over the capot

### CHARACTERISTICS TABLE

Model Ref.	weight. (Kg.)	D	A	B	Dimensions (mm)				
					I	K	S	N	P
LPUA4950E-BMS	1.470	1.500	3.140	1.500	1.000	2.085	200	--	1
LPUA10E-BMS	2.530	1.500	6.050	3.500	1.000	2.085	200	--	1
LPUA13E-22-BMS	3.480	2.200	3.880	2.000	1.560	2.680	93	75	2
LPUA33E-BMS	7.600	2.200	9.260	5.500	1.560	2.680	100	75	2

### TANK CONNECTIONS

Connection	Size	Thread	Coupling acc. to
Filling	1-1/4"	NPT-H	--
Flow to dispenser	DN50	--	EN 1092-1 PN40
Return from dispenser	DN25	--	EN 1092-1 PN40
Magnetic level	Rochester	--	--
Safety	2"	NPT-H	--
Drain (with dip pipe)	1-1/4"	NPT-H	--
Manometer and high point	3/4"	NPT-H	--
Magnetic level	1-1/4"	NPT-H	--
Reserve connection	1-1/4"	NPT-H	--
Boca de hombre	DN420	--	--



**LPUA\*\*E-BSME**

Submerged PUMP inside the tank.  
MOTOR installed out of the tank, inside the capot.  
Transmission to motor is magnetic, therefore motor can be unmounted without needing to empty the tank.  
Unit designed for installation in areas WITHOUT TRANSIT over the capot.

**CHARACTERISTICS TABLE**

Model Ref.	weight. (Kg.)	Dimensions (mm)							
		D	A	B	I	K	S	N	P
LPUA4950E-BSME	1.340	1.500	3.140	1.500	1.000	2.480	200	--	1
LPUA10E-BSME	2.400	1.500	6.050	3.500	1.000	2.480	200	--	1
LPUA13E-22-BSME	3.360	2.200	3.880	2.000	1.560	3.073	93	75	2
LPUA33E-BSME	7.600	2.200	9.260	5.500	1.560	3.073	100	75	2

**TANK CONNECTIONS**

Connection	Size	Thread	Coupling acc. to
Filling	1-1/4"	NPT-H	--
Flow to dispenser	DN40	--	EN 1092-1 PN40
Return from dispenser	DN25	--	EN 1092-1 PN40
Magnetic level	Rochester	--	--
Safety	2"	NPT-H	--
Drain (with dip pipe)	1-1/4"	NPT-H	--
Manometer and high point	3/4"	NPT-H	--
Magnetic level	3/4"	NPT-H	--
Reserve connection	1-1/4"	NPT-H	--

