

LPG Filling Station Design Reference



Except for LPG storage tank and standard tank accessories,you need following equipments for a station

Two sets of LPG pump and motor and one set of compressor

cylinder weighting scales



Magnetic plate level gauge

Safety valve



Pipeline



50CBM 50,000L LPG Storage Tank








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Parameter of 25MT 50cbm LPG Storage Tank			
ITEM	PARAMETER	ITEM	PARAMETER
Volume	50cbm	Thickness of Shell	14mm
Tank Material	Q345R	Thickness of End plate	16mm
Overall Size	9182*2728*3318mm	Tank Net Weight	10640kg
Tank Diameter	2700mm	Loading Capacity	19950kg
Design Pressure	1.77Mpa	Gas Density	420kg/M3
Hydraulic Test Pressure	2.22Mpa	Corrosion Allowance	1mm
Design Temperature	-20℃~50℃	Heat Treatment	Bulk
Vapor Outlet	DN50	Gas Outlet	DN50
Life time	15 years		
Accessories			
Model	Item	Qty	Junction surface
J41N-2.5-50	Stop Valve DN50	6	RF
J41N-2.5-25	Stop Valve DN25	2	RF
J41N-2.5-80	Stop Valve DN80	1	RF
J24W-320-DN6	J24W Needle Valve M20*1.5	1	
HG21584-95	Magnetic plate level Gauge UZFAL-2.5RF-3040-0.5	1	RF
A42F-25-80	Safety Valve DN80	1	RF
Y-100T	Pressure Gauge M20*1.5 1.5degree 0~4Mpa	1	
WTQ-280	Thermometer M33*2 2.5 degree	1	-40℃~60℃

Standard Accessories

Magnetic plate level gauge	Tank Safety Valve	Stop Valve	Pressure Gauges	Thermometer
				

Except for LPG Tank and standard accessories,we can also supply other lpg station equipment needed.

- 1) lpg pump and motor
- 2) LPG compressor
- 3) Flow meter
- 4) Cylinder Filling Scale,optional for wireless data transmission
- 5) ...



Chinese pump



LPG Compressor

Corken pump and ABB motor



LPG Volume Flow Meter



LPG Dispenser



LPG filling Scale

LPG Filling Scale



Specification of LPG Pump and Motor

Specification of the Motor

Revolving speed: 1470 r/min

Power: 5.5 kw

Voltage: 380 V

Protection grade: ExdIIBT4, Anti- Explosion

Specification of the hydrocarbon Pump

Medium:Liquid petroleum gas

Speed: 15 m³/h

Input and Output Diameter: 50 mm

Working pressure: 2.0 Mpa

Working temperature: -40℃ - 50℃

Material: carbon steel



Specification of Compressor

LPG compressor

Compressor Model CL-0.8/10-16

Structural style Vertical type, Air cooling

Compress medium LPG

Rate of flow 0.8 m³/min(48m³/h)

Suction pressure 1.0 Mpa

Exhaust pressure 1.6 Mpa

Suction temperature ≤40℃

Exhaust temperature ≤110℃

Lubrication Non-Lube

Number of cylinder 2 cylinder

Driving Model Belt drive

Installation Mounting with base plate

Weight 550kg

Overall Dimension:1200*1000*1100mm



Explosion Proof Motor

Model YB3-160M-4

Rated speed 1460 r/min

Rated Output 11 kw

Voltage 380 V

Anti-hazard classification ExdIIBT4

Protection grade IP55

Specification of LPG Filling Scale

Power: 100~240V/50~60HZ;
 Scale Capacity: 2kg to120kg;
 Valve serving life: > 2 years;
 Operating pressure: 0~1.6 Mpa;
 Division value: 100g;
 Power supply:optional for Ex-proof battery and AC power;

Ex-proof battery

Input:100~240V,50~60HZ,output:9V 2A,charger,DC power 3.7V 3000mAh;

AC power supply

Input:100~240V,50~60HZ,output:5V 2A



Specification of LPG Liquid Meter

Inlet & Outlet: 2", optional 1 1/2".
 Maximum Capacity: 76~380lpm
 Working Pressure:350psi/24 Bar
 With Mechanical Register, strainer, air eliminator, Diff. Valve and Back Check Valve.
 With Ticket Printer.



Gas Leak Detector

Measuring Range: 0~100% LEL
 Precision: $\pm 5\%$ (F.S.)
 Size: 180*140*95mm
 Nozzle: M20*1.5
 Signal Transmission Distance: $\leq 1200M$
 Weight: 1.5kg
 Warning Method: Controller warning(>70dB)
 Ex-Proof: Ex ID IIC T6



Air compressor with explosion proof motor

Model:CLW-0.25/8;
 Structure of main structure:V type;
 Cylinder no.:2
 Flow meter:0.25m³/min;
 Storage tank:70L;
 Motor power:2.2KW,380V,50HZ;
 Insulation grade:F
 Anti-proof grade:ExdIIBT4

Production

Production Process of LPG Storage Tank



Related Products:

HOWO LPG Truck-



LPG Tank Trailer--



Underground LPG Tank--



LPG Storage Tank--



LPG Skid Station



LPG Skid Station



Company Show

- Certificate: ASME, ISO, BV, SGS, CCC etc.
- Top 317 private own enterprise in whole China
- More than 30 independent workshops for different trucks.
- 1000 sets of equipment, 25 automatic assemble lines.
- 300 senior engineers and technicians and 8000 staffs.
- 800 kinds of trucks and semi-trailers with various functions.
- 15 years wholesale experience
- Turnover 250 million and Export 20million annually
- Trucks Sold to more than 90 countries
- Cooperates DONGFENG,SINOTRUCK,ISUZU,FOTON,FAW,BEIBEN,ETC
- Annual output 250,000 units of trucks

For more information about CLW Group:

Welcome to visit CLW Group in Suizhou City,Hubei Province,China.The nearest airport is WUHAN TIANHE

INTERNATIONAL AIRPORT,2 hours from Guangzhou,Beijing or Shanghai by plane and 5 hours from Guangzhou,Beijing or Shanghai by high speed train.

Follow us on Official Youtube Channel:

https://www.youtube.com/channel/UCmIV7bwx880s6ksdFsrS73Q/videos?view_as=subscriber

1) Check video of LPG production factory:

<https://www.youtube.com/watch?v=UuikFCxEGtw>

2) Check video of 50,000liters lpg tank:

<https://www.youtube.com/watch?v=E6pJoWPucv0>

3) Check video of LPG Truck:

https://www.youtube.com/watch?v=_qj4fNwEZqM&list=PLbL-g-SP8MREK5gFx_tXrNFAj34m3-gAZ&index=18

4) Check video of LPG Tanker Trailer:

<https://www.youtube.com/watch?v=HMOz7Xoib4w&t=1s>

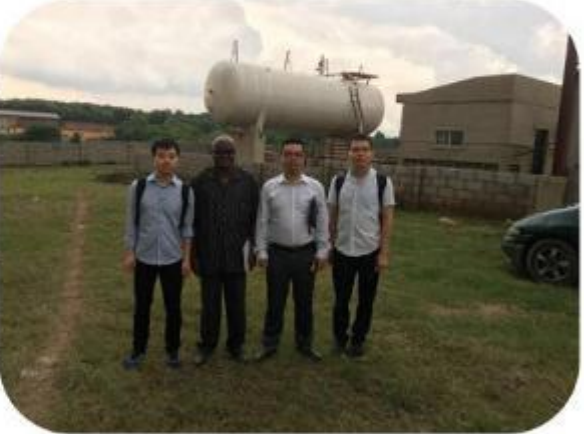
5) Check video of LPG Skid station:

<https://www.youtube.com/watch?v=mNp07eBs9aQ&t=8s>

Customer Visiting



Overseas Exhibition and Visiting



Main Products:

1. Water Tank Truck
2. Insulation Truck and Milk Truck
3. Sewage Suction Truck
4. Garbage Truck
5. Man lift Truck/Aerial Platform Truck
6. Truck with Crane
7. Fuel Truck/Trailers
8. Chemical Truck
9. Bulk Cement Truck
10. Concrete Mixer Truck
11. Fire Truck
12. Dump Truck
13. Van Truck/Refrigerated Truck
14. Wrecker/Tow Truck
15. Flatbed Truck/Low Bed
16. Tractor
17. LPG Tank/Truck/Trailer/Skid Station
18. Road Sweeper/Cleaning Truck
19. Ambulance Trucks
20. LED Advertising Trucks
21. RV/Camper Trucks
22. Food Truck/Vender Truck
- 23. Trailers**