

压缩天然气加气机

CNG Dispenser

CE / ATEX / PED / CPA / CMA



CNG撬装压有防爆电动机驱动, 三级压缩, 撬装结构;
 整个机组主要由动力部分、压缩部分、空冷器总成、仪表控制部分, CNG加气机组成。
 The CNG skid-mounted is driven by an explosion-proof motor, three-stage compression, and skid-mounted structure;
 The complete unit is mainly composed of power part, compression part, air cooler assembly, instrument control part, and CNG dispenser.



主要技术参数 Technical Specification

外型 Host Type	Horizontal Skid
缸数Column	2
系列 Series	3、4
扬程 Stroke (mm)	100
压缩介质 Compression medium	天然气Natural gas (moisture, H2S content≤200mg/Nm ³)
进气压力 Inlet pressure (MPa.G)	0.8-1.0
出气压力 Exhaust pressure (MPa.G)	23-25.0
进气温度 Inlet temperature (°C)	≤4
出气温度 Exhaust temperature (°C)	≤55°C (not higher than ambient temperature 15°C)

可根据客户要求定制 We can do OEM for you as required

CNG加气机 CNG Dispenser

Welldone 汇洋能源



产品功能 Product features

电子校准

打印机(可选)

具有锁机功能

具有金额整停功能

具有小数点移位功能,适用于不同国家货币要求

留有通讯口,可与气站管理系统连接

有GPRS功能(可选)

Electronic Calibration

Printer (option)

Lock function

Stop fueling by integer sale

Can set the decimal point for the display, so can be used in many country

Leaves the communication ports, so it can communicate with the management system

GPRS function (option)



主要技术参数 Technical Specification

适应温度 Adapt To Temperature	-40℃~+55℃
电压 Power	AC220V±20% (50±1Hz)
流量 Flow rate	2-30 m ³ /min (标准状态Standard)
质量流量计精度 Mass flowmeter accuracy	±0.5%
工作压力 Working pressure	≤25MPa
密度预设范围 Density preset range	0.5000-0.9999kg/m ³
显示屏显示位数 Number of digits displayed on the display	油量区6位, 金额6位, 单价区4位 (664) Liter-Amount-price 油量区8位, 金额8位, 单价区6位 (886) Liter-Amount-price
单价范围 Unit price range	0~9999, 0~999999 (可变的Changeable)
单次范围 Single range	1~9900.00, 1~999900.00 (可变的Changeable)
累计范围 Accumulative range	0~9999999999.99



产品功能 Product features

电子校准	Electronic Calibration
打印机(可选)	Printer (option)
具有锁机功能	Lock function
具有金额整停功能	Stop fueling by integer sale
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主要技术参数 Technical Specification

进压范围 Inlet Pressure Range	1.0MPa
电源电压 Voltage	380V
活塞行程 Piston Stroke	2*100mm
气缸数量 Number Of Cylinders	2
进气温度 Inlet Air Temperature	30°C
最大排压 Maximum outlet Pressure	25.0MPa
防爆等级 Explosion-proof Grade	dIIBT4
压缩级数 Compression Stages	2级 Class
转速 Speed	985rpm
气缸润滑方式 Cylinder Lubrication	2*3-5g/min
最高排气温度 Maximum Exhaust Temperature	< 140°C
最大轴功率 Maximum Shaft Power	183kW
冷却方式 Cooling Method	混冷 Mixed cold
启动方式 Start Method	软启动 Soft start
最高气体出口温度 Maximum Gas Outlet Temperature	环境温度 Temperature +15°C



WDFWD-3000/5.0 · II 半自动semi-automatic

主要技术参数 Technical Specification

工作流量 Workflow	Nm ³ /h	3000
设计压力 Design Pressure	MPa	9.0
工作压力 Work Pressure	MPa	5.0
入口天然气压力露点 Inlet Natural Gas Pressure Dew Point	°C/MPa	-13/0.6
进口温度 Inlet Temperature	°C	15~40
单塔连续工作时间 Continuous Working Time Of Single Tower	h	≥12
再生时间 Regeneration Time	h	8
出口气体常压露点 Atmospheric Dew Point Of Outlet Gas	°C	≤-60
出口气体过滤精度 Outlet Gas Filtration Accuracy	μm	≤3
进出口初始压力降 Initial Pressure Drop At Inlet And Outlet	KPa	≤50
电机防爆等级 Motor Explosion-proof Rating	Exd II	BT4
再生气加热温度 Regeneration Gas Heating Temperature	°C	150~220
电加热器功率 Electric Heater Power	380v/KW/50Hz	19
总功率 Total Power	380v/KW/50Hz	30
进出口接口 Import And Export Interface	mm	DN100
外形尺寸 Dimensions	mm	3800×2200×2500
质量 Quality	kg	4300
切换方式 Switch Mode	手动阀门, 双塔手动切换。 Manual valve, manual switching of double towers.	
再生方式 Regeneration Method	闭式循环、加热再生、手动排污。 Closed cycle, heating regeneration, manual blowdown.	
控制方式 Control Method	PLC自动控制再生、触摸屏、故障自动提示报警。PLC auto-controls regeneration, touch screen, and auto-prompts faults and alarms.	



CNG加气机控制器
CNG Dispenser Controller



CNG压力表
CNG Manometer



CNG二位三通阀
CNG Three Way Valve



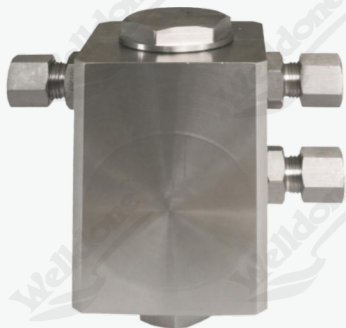
CNG软管组件
CNG Hose



CNG压力传感器
CNG Pressure Transducer



CNG安全阀
CNG Safety Valve



CNG 过滤器
CNG Filter



CNG 电磁阀
CNG Solenoid Valve



CNG拉断阀
CNG Breakaway Valve



CNG球阀
CNG Ball Valve



CNG接头
CNG Swivel



CNG气动阀
CNG Pneumatic Valve

LNG 加液机液化天然气

LNG Dispenser

CE / ATEX / PED / CPA / CMA





产品功能 Product Features

停电时可保存数据、延显时间及重复显示。

能保存1000条记录可查询

可选打印机

配IC卡读卡器

留有通讯口,可与气站管理系统连接

可根据要求定制

可与手机联网,带GPS,能随时用手机改单价

Data can be saved, display time extended and display repeated in case of power outage.

Capable of saving 1000 refueling records, which is queryable

Printer (Option)

Equipped with IC Card Reader

It has communication ports for communicating with the filling station management system.

Can do OEM as required

Can connect to mobile phone to check data anytime, anywhere and set unit price at any time.

主要技术参数 Technical Specification

工作环境 Ambient Temperature	-40°C~+55°C
管道温度 The pipeline Temperature	-196°C~55°C
相对湿度 Ambient Humidity	≤95%
电压 Power	AC220V (±10%-15%), (50±1Hz)
流量 Flow Rate	0~60kg/min
测量精度 Measurement Precision	±1.0%
额定工作压力 Rated Working Pressure	1.6MPa
密度预设范围 Density Preset Range	0.5000-0.6999
充气预设范围 Gas-filling Preset Range	1~9900KG
额定功率 Rating Power	<100W
单价范围 Unit Price Range	0~9999
单次范围 Single Range	1~9900.00
累计范围 Accumulative Range	0~9999999999.99

LNG撬装 LNG Filling Skid



LNG潜液泵 (含泵池, 单泵或双泵)、气动截止阀, BOG汽化器、储槽增压器、仪表系统、电控系统、保温管路、集装框架、LNG加液机等。现场安装在简单方便时, 仅需连接好进液管路、回气管路、出液管路、控制电缆、仪表气即可。

系统首次预冷完成后, 可24小时待机、运行, 即时加液。

流量: 12-25m³/h (单泵) 扬程: 140-240m

LNG submerged, LNG including pump pool, single pump or double pump, pneumatic stop valve, BOG vaporizer, storage tank booster, instrument system, electronic control system, thermal insulation pipeline, packaging frame and LNG dispenser, etc.

The on-site installation is simple and convenient, what is needed to do is connecting the fluid inlet pipeline, air return pipeline, fluid outlet pipeline, control cable and instrument air.

After the initial system precooling is finished, the system can be in standby, working for 24 hours; liquid shall be filled in case it is operated.

Flow: 12-25m³/h (single pump) Head: 140-240m



LNG加液机控制器
LNG Dispenser Controller



加液枪
LNG Filling Nozzle



LNG拉断阀
LNG Breakaway Valve



回气枪
Air Return Nozzle

LNG潜液泵 LNG Submerged Pumps



主要用于LNG天然气加气站车载瓶的加注,LNG液化工厂,LNG接收站的LNG槽车充装、转运、输送。

潜液式泵主要用于要求介质零泄露的工况。机组为离心式机组。

LNG submerged pumps are mainly used for filling of vehicle-mounted cylinders at LNG natural gas stations, filling, transport and delivery of LNG tank wagons at LNG liquidation plants, LNG receiving stations. Submerged pumps are mainly used for working conditions that require zero leakage of medium. The units are centrifugal units.

适用范围 Applicability

LNG天然气加气站、LNG接收站	LNG stations
LNG杜瓦瓶的充装	Filling of LNG bottles
LNG液化工厂槽车充装	Filling of LNG liquidation plant tank wagons
LNG转运、输送	Transport, delivery of LNG
LNG零泄漏环境	LNG zero leakage environment

主要技术参数 Technical Specification

流量 Flow: 2-200m³/h

扬程 Head: 15-450m

转速 Rotating speed: 1000-6000r/man

性能特点 Performance features

潜液式机组整体放入真空容器, 完全浸没于介质中, 没有动密封, 保证了零泄漏, 减少了机组的冷损, 可以实现快速启动

进口设置有诱导轮, 极大的减小了对系统装置汽蚀余量NPSHa的要求

导叶为多流道导叶式结构, 实现了水力径向力的自平衡

电机与泵部分为一整体, 电机为高速变频电机, 提高了泵的工作范围

轴承采用进口低温轴承, 技术成熟, 寿命16000h以上

The submerged set immersed unit is placed in a vacuum container and completely immersed in the medium. There is no motive seal, which guarantees zero leakage and reduces the cold loss of the unit. And it can realize a rapid start.

The inlet is equipped with an inducer, which greatly reduces the requirement on the NPSHa of the system device.

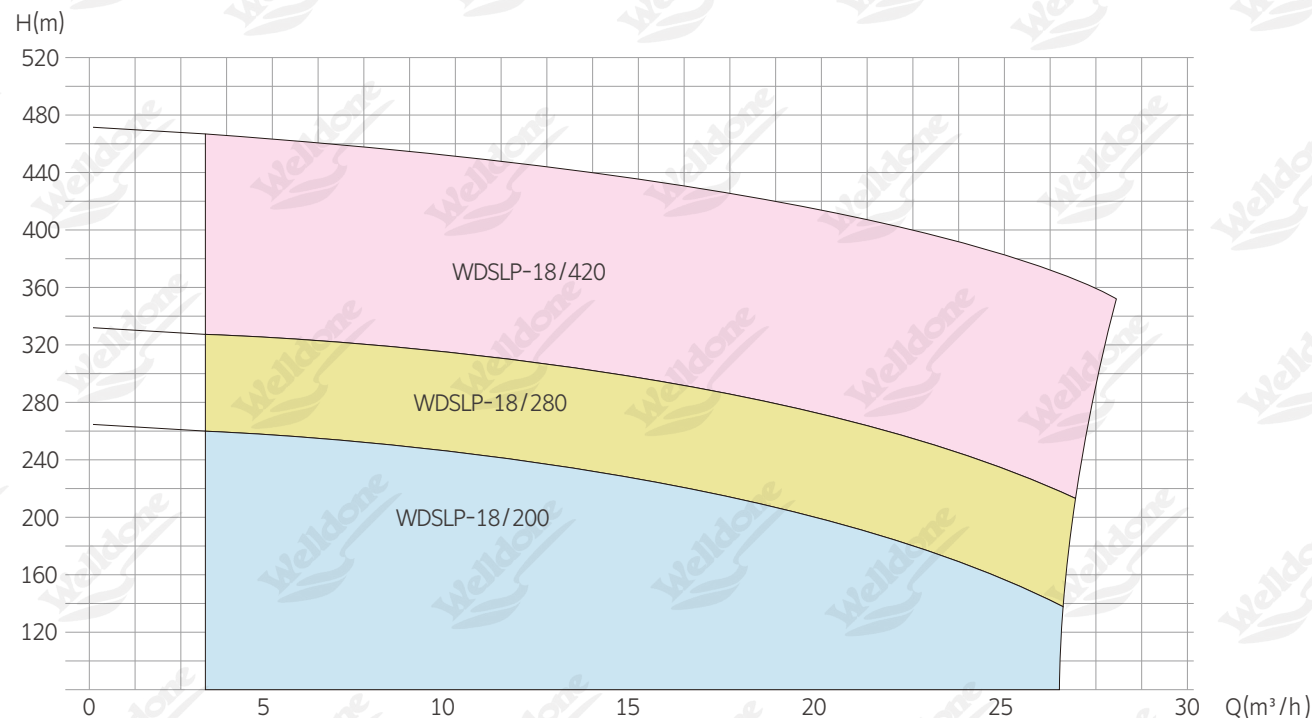
The guide vane has a multiple runner guide vane type structure, which realizes the self-balancing of hydraulic power radial force.

The motor and the pump are an entirety.

The motor is a high speed variable frequency motor, and it enhances the working range of the pump.

The bearings are imported and low-temperature type.

性能图 Performance figure





螺纹金属软管



快换式金属软管



真空软管

性能特点 Performance features

真空软管技术设计

真空软管可以按现场情况调整供液系统位置,真空软管弯曲半径小

保冷效果好,使用时软管外表不结水,不结霜

真空软管两端配以贮槽和槽车专用快速接头

有特殊需求的客户定制特殊结构形式的真空绝热软管真空软管运用

真空软管主要运用:槽车充排液体;贮槽与低温用液设备之间硬连接的转换;真空硬管与低温用液设备之间的转换。

真空管运用行业:工业气体、医学、生物学,电子、航空、汽车,餐馆、饮料等行业,输送液氮(LIN)、液氩(LAr)、液氧(LOX)、液化天然气(LNG)

真空软管选材:内外层均为特种优质不锈钢金属软管(SUS304)、夹层中采用目前先进的专用多层绝热材料、导热系数低的支撑

Vacuum Hose Tech Design

- Adjustable position of liquid supply system based on site, with small bending radius.
- Good cooling effect, no water or frost on surface during use.
- Equipped with special quick connectors at both ends for storage tanks and tankers.
- Customize vacuum insulation hoses & regular ones for special needs.
- Main uses: Filling & discharging liquids in tankers; converting hard connections between storage tanks & low-temp liquid equipment; converting between vacuum hard pipes & low-temp liquid equipment.
- Application industries: Industrial gases, medicine, biology, electronics, aviation, automobiles, restaurants, beverages etc., transporting LIN, LAr, LOX, LNG.
- Material: Inner & outer layers made of special high-quality SUS304 stainless steel metal hose, interlayer uses advanced special multi-layer thermal insulation material & low thermal conductivity supports.

管道规格 (mm)	公称通径	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
	内管	φ10	φ15	φ20	φ25	φ32	φ40	φ50	φ65	φ80	φ100
	外管	φ34	φ40	φ52	φ64	φ84	φ84	φ104	φ125	φ150	φ185
工作压力		根据用户需要设计≤ 3,2MPa									
设计温度		-270℃									
工作介质		LO 2、LN 2、LAr、LH 2、LHe									
内、外筒材质		SUS304									
结构形式		高真空多层绝热									
夹层压力		<0.004Pa									
管道真空漏率		<2×10 ⁻¹⁰ PaL/S									
使用环境温度		-30C~50C									
内管强度试验		根据工作压力进行									
气密性试验		根据工作压力进行									
设计依据		1.根据国家有关标准和Q/HLT001-2008标准 2.按用户提供的低温液体输送管道系统布置图要求进行									

订货示例:HYDY(长度) 10(通径) L1000(产品代号)

低温潜液离心泵容器(泵池)

Cryogenic submersible centrifugal pump container (pump pool)



加液站用泵池



泵池生产现场

适用介质: 液氮、液氦、液体天然气(LNG)

主要技术参数: 流量: 2m³/h-20m³/h; 扬程: 30m-300m

使用范围: LNG汽车加气站

LNG接受站: 充装、贮槽; 液体输送; 用于要求介质零泄漏的工况

可选配置: 真空绝热套; 变频调速器; 蚀保护装置

性能特点: 1. 泵体和电机浸没介质中, 杜绝产品损失, 保证快速启动。

2. 真空绝热套降低冷损, 创造良好工作条件。

3. 无密封及浸润型设计降低维护要求。

4. 直立型设计让泵运转更稳定, 寿命更长。

5. 变频调速电机扩展泵工作范围。

LNG潜液泵 LNG submersible pump

适用介质: LN₂, LAr, LNG及其它介质

可选配置: 真空绝热套; 变频调速器;

主要技术参数: 流量为 2m³/H~20 m³/H; 扬程: 30M~300M; 进口压力 0.1MPa-0.5MPa; 电机功率: 11KW; 转速: 6000r/min

使用范围: LNG汽车加气站、LNG接受站; 充装贮槽; 液体输送; 用于要求介质零泄漏的工况;

性能特点: 泵体和电机完全浸没在介质中, 从而杜绝了产品介质的损失, 并保证了泵的快速启动;

真空绝热套使冷损降至极限, 创造了完全的工作条件;

无密封及浸润型设计使维护要求降至最低;

直立型的设计使泵运转更加稳定, 运转寿命更加长;

可变频调速的电机扩展了泵的工作范围。



主要用于LNG天然气加气站高压气瓶的充装。机组主要为单列/双列/三列活塞式泵。

Such pumps are mainly used for filling high pressure gas cylinders at LNG natural gas stations.

The units are mainly piston pumps with single,double three cold ends.

适用范围 Applicability

LNG天然气加气站高压气瓶充装

Filling of high pressure gas cylinders at LNG natural gas stations

城市天然气调峰站管网补气、增压

For city LNG nature gas station , gas supplement and pressure boost

杜瓦瓶充装

Filling of LNG bottles

主要技术参数 Main technical parameters

流量:500-5000L/h

Flow:500-5000L/h

出口压力:1.0-35.0 Mpa

Outlet pressure:1.0-35.0Mpa

标准配置 Standard configuration

进液过滤器

Liquid inlet filter

出液压力表及根阀

Liquid outlet pressure gauge and root valve

传动箱油温传感器

Drive box oil temperature sensor

进液、回气金属软管

Liquid inlet, return air metal hose

阻尼器

Damper

性能特点 Performance features

所有电气部件按照防爆要求配置

采用高真空夹套泵头,真空度达到 10^{-5} 托,最大限度减少冷损

特殊材料活塞密封,活塞密封寿命长达4000h以上

出口压力脉冲小,电机载荷平稳

传动箱采用自润滑系统,运行平稳,且配置有油温联锁配置,对传动箱温度进行监控,并与控制联锁,保障机组安全

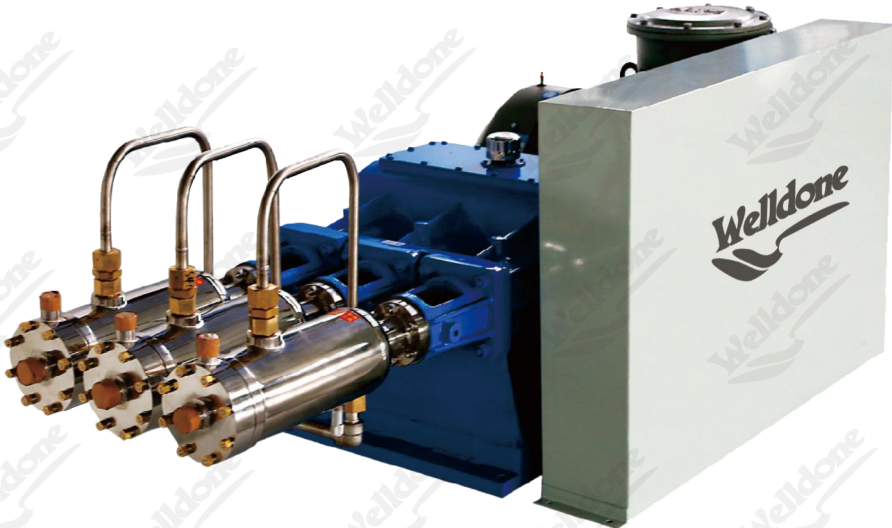
All electric components are configured as per anti-explosion requirements.

A high vacuum jacket pump head is used,and the vacuum degree reaches 10^{-5} torr to reduce cold loss to the greatest extent.

The piston seal is made of special material and the service life of the piston seal is over 4,000 hours.

The outlet pressure pulse is small and the motor load is steady.

The reansmission case has a self-lubricating system and operates steadily. It's equipped with an oil temperature interlocking device to monitor its temperature and this device interlocks with the control system



LNG泵性能参数表 LNG pump performance parameters

型号 Model	缸数 Piston No.	流量 Flow	进口压力 Inlet pressure	出口压力 Outlet Pressure	功率 Power	接口尺寸Connetion Size mm (DN)		
		L/h	Mpa (A)	MPa (A)	KW	进液 Liquid inlet	出液 Liquid outlet	回气 Return air
WDSBP-800/250	1	800	0.02-1.6	25	15	32	15	25
WDSBP-1000/250	1	1000	0.02-1.6	25	15	32	15	25
双列/Double								
WDSBP-1500/250	2	1500	0.02-1.6	25	22	50	15	32
WDSBP-2000/250	2	2000	0.02-1.6	25	30	50	15	32
三列/Three								
WDSBP-2500/250	3	2500	0.02-1.6	25	37	50	20	40
WDSBP-3000/250	3	3000	0.02-1.6	25	45	50	20	40
WDSBP-3500/250	3	3500	0.02-1.6	25	45	50	20	40
WDSBP-4000/250	3	4000	0.02-1.6	25	55	50	20	40
WDSBP-4500/250	3	4500	0.02-1.6	25	75	50	20	40
WDSBP-5000/250	3	5000	0.02-1.6	25	75	50	20	40

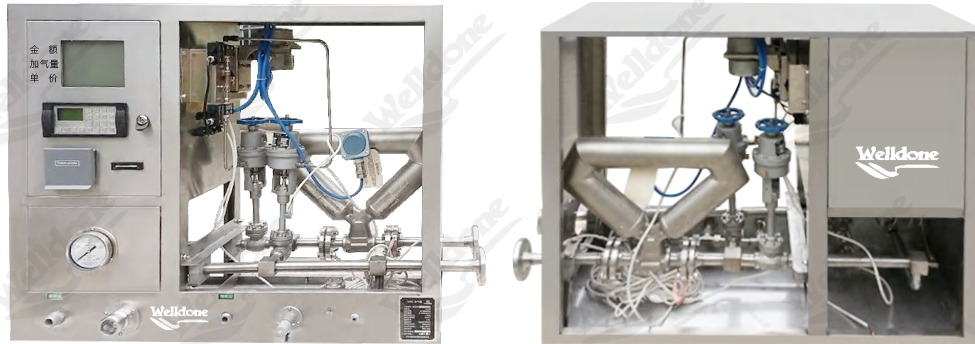
移动式LNG加液机 Mobile LNG dispenser



LNG 是液化天然气, 一种透明、无色、无毒的液体, 当天然气冷却至 -162°C (-260°F) 时形成。这将天然气的体积缩小了 600 倍, 使其更容易储存和运送到海外能源匮乏的城镇和城市。

移动式LNG加液机将LNG填充到LNG车辆中。它可以安装在移动卡车上的一个滑轨中。

LNG is liquefied natural gas, a clear, colourless, non-toxic liquid that forms when natural gas is cooled to -162°C (-260°F). This shrinks the Volume of the gas 600 times, making it easier to store and ship to energy-hungry towns and cities overseas Mobile LNG dispenser, rt-lng112m, is designed to fill the Mobile LNG dispenser is filling LNG into LNG vehicles in LNG stations. It can be fitted into one skid on a mobile truck.



产品功能 Product Features

- | | | | |
|------------|-------------------------------|-------------|--|
| 电子校准 | Electronic Calibration. | 语音和打印机 (选项) | Voice and printer (option). |
| 加液次数限制功能 | Fueling times limit function. | 锁泵功能 | Function of locking pump. |
| 停止通过整数销售加油 | Stop fueling by integer sale. | 可与IC读卡器通讯 | Can communicate with the IC card reader. |
- 设置显示的小数点, 因此可以在多个不同货币汇率的国家使用
Can set the decimal point for the display, so can be used in many country with different currency rate.
- 保留通讯接口, 可与加油站管理系统通讯
Leaves the communication ports, so it can Communicate with the gas station management system.
- GPRS功能, 可和手机联网, 通过手机查看数据和设置单价
Can connect with mobile phone, to check any data any time, set unit price through mobile phone

主要技术参数 Technical Specification

外形尺寸 External Dimension	2200 × 1080 × 580mm
环境温度 Ambient Temperature	$-40^{\circ}\text{C} \sim +55^{\circ}\text{C}$
湿度 Humidity	$\leq 95\%$
最大流量 Max Flow	50kg/m
准确度 Accuracy	$\pm 0.10\%$
重复精度 Repeating Accuracy	$\leq 0.15\%$
工作压力 Working pressure	20Mpa
最大压力 Max pressure	25Mpa
电源 Power	AC110V $\pm 20\%$, AC220V $\pm 20\%$, AC380V $\pm 20\%$ (50Hz)
噪音 Noise	$\leq 70\text{dB}$ (A class A级)
单价范围 Unit price range	0~9999, 0~999999 (changeable 可变)
单一范围 Single range	1~9999.99, 1~999999.99 (changeable 可变)
累计范围 Accumulative range	0~9999999999.99

LNG气化调压供气站

LNG gasification pressure regulating gas supply station



LNG气化调压供气站主要设备:

LNG储罐、BOG储罐、卸车台。卸车增压器、储罐增压器、主空温式汽化器(水浴式汽化器) BOG加热器、EAG加热器、LNG调压计量加臭装置、中央控制系统、安全放散及安全切断系统、管道、消防避雷及其他辅助设备组成。LNG气化调压一体撬工艺流程:将LNG槽车内的液化天然气,通过卸车增压器把车内的液体卸至LNG储罐,使用时、利用储罐的自增压系统,将储罐的压力升高,然后排放到空温式汽化器进行气化,最后通过加臭、调压计量送到管网、为城镇居民、工业窑炉、厂矿企业以及应急调峰供气。用完液体后,储罐内气体及及储存期间产生的气体排放到BOG加热后送入总管网。

The main equipment of LNG gasification pressure regulating gas supply station include:

LNG tank, BOG tank, unloading platform. Unloading supercharger, storage tank supercharger, main air temperature vaporizer (water bath vaporizer) BOG heater, EAG heater, LNG pressure regulating, metering and odorizing device, central control system, safety release and safety cut-off system, pipeline, Fire-fighting lightning protection and other auxiliary equipment. LNG gasification and pressure regulation integrated skid process: unload the liquefied natural gas in the LNG tanker to the LNG storage tank through the unloading supercharger, When using, use the self-pressurization system of the storage tank to raise the pressure of the tank and then discharge it to the air-temperature carburetor for gasification, finally sent to the pipeline network through odorization, pressure regulation and metering, to supply gas for urban residents, industrial furnaces, factories and mines, and emergency peak-shaving. After use up the liquid, the gas in the storage tank and the gas generated during storage are discharged to the BOG for heating and then send to the main pipe network.

ABOUT US

We are the gas station equipment supplier in Hydrogen Energy, Liquid Natural Gas, Compressed Natural Gas, Liquid Petrol Gas, Fuel, Adblue, EV charger, Home Energy Storage, Industrial Energy Storage area. If you are doing the same range business, if you are interested in new energy, welcome you to visit us!

We have many certificates like ISO, CE, ATEX, PED, TUV, PEI, CPA, CMA, Explosion proof certificates and soon. We have our own Patent and copyrights.

Wish our products, our service can give you a strong impression.

Well Quality We Done! Well Service We Done! Well Price We Done!

We are Welldone Group!

HONOR



Fuel Dispenser ATEX



LNG Dispenser ATEX



Mobile Gas Station ATEX



LNG Dispenser PED



Submersible Turbine Pump ATEX



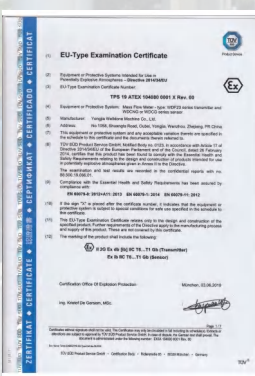
Junction Box ATEX



LPG dispenser ATEX-D



LPG dispenser ATEX-B



Mass Meter ATEX



Positive Displacement Meter CE



Mobile Gas Station CE



Adblue Dispenser CE



LNG Dispenser CE



CNG Dispenser CE



LPG Dispenser CE



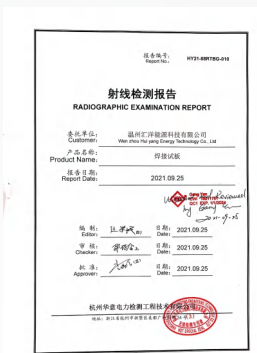
Fuel Dispenser CE



EV Charger TUV



PEI



Radiographic Examination Report



CNG Dispenser Explosion Proof CMA



LNG Dispenser Explosion Proof CMA



PQR Test Report



Patent Certificates For Management System



Factory ISO



LNG Dispenser CPA



CNG Dispenser CPA



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