PETROLMECCANICA

Doc. PMD6000BP CPTH02 041122GB

LPG Dispenser

LPG6000BP

with electronic calculator CPTH02

TECHNICAL SHEET

International Organization for Standardization ISO 9001:2015

Certificazione del Sistema di Gestione Qualità



LANGUAGE: **ENG**

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The L.P.G. dispenser model "LPG6000BP" is made with one stand, vertical barriers to separate the LPG process area and the case containing the electric-electronic devices. It's produced with one or two nozzles contemporaneously operating,
VOLUMETRIC METER – positive displacement meter type Petrolmeccanica LPG6000WA, four pistons and four cylinders with anticorrosion treatment and electronic calibration. MPE 0,6%. 1 cycle equivalent to 0,5 liters or 0,132 gallons about.
DIFFERENTIAL VALVE - Piston type in a ground cylinder. A pressure gauge is fitted on the valve, indicating the filling pressure. This valve balances the pressure in the meter, damping the water hammer, stops the flow until the vapour phase is in the degassing unit and stops the flow if the return pipeline is wrongly closed.

DEGASSING UNIT composed by the following elements :
- Stainless steel filter 270 mesh / 53µ (an highest HYPERLINK "https://context.reverso.net/traduzione/inglese-italiano/filtration+performance"filtration performance can be requested)
- Degassing unit inlet check valve 1 to increase the safety and the separation efficiency
- Check valve 2 (mandatory upstream the meter)
- Removable degassing body, easy maintenance and total inspection (capacity 2 litres)
- Over pressure valve (closing Δp 11 bar), discharges in the return vapour phase pipeline, provided with back-pressure valve to prevent liquid traps in case of overpressure.
- Vapour pressure gauge

SOLENOID VALVE – double coil solenoid valve, supplied by the electronic calculator. It slows-down and stops accurately the liquid to the preset amount or volume selected by the keyboard. The valve, not servo-controlled type, can be opened and closed also with a Δp of zero bar or higher.

STAINLESS STEEL BALL VALVE – Useful for service to minimize LPG losses in case of maintenance.
PRESSURE GAUGES – pressure gauges filled with glycerine, to check the liquid and vapour pressure. They are fitted on the internal components to reduce risks of leakages and to increase their lifetime.
RECONNECTABLE PULL-AWAY VALVE – the reconnectable pull-away valve is made in conformity with EN14678-1 , minimizes the plant stoppages when the hose pull-away is disconnected, because it can be reconnected. This valve is installed and fixed to the base of the dispenser to reduce damages to objects and/or persons when the hose mechanism is released in motion.

DELIVERY HOSE – suitable for LPG in conformity with EN1762-1, lining plasticizer-free , very low permeation, easy to handle,flexible and durable. Max length 7 meters in accordance with prescriptions of EN14678-1.
DELIVERY NOZZLE – several models can be requested by the customers suitable to different connectors (dish, bayonet, threaded etc ...)

FRAME – Flag type with one stand and separated housings for electronic devices and process LPG system. LPG system is fitted on a frame protected by panels equipped with locks and properly ventilated on the base. The stand is galvanized and covered with panels made of painted steel or stainless steel. It supports the nozzle-boot and the housing for electronic devices. The housing for electronic devices contains CPU , display , controls, preset. The frontal doors are equipped with locks.

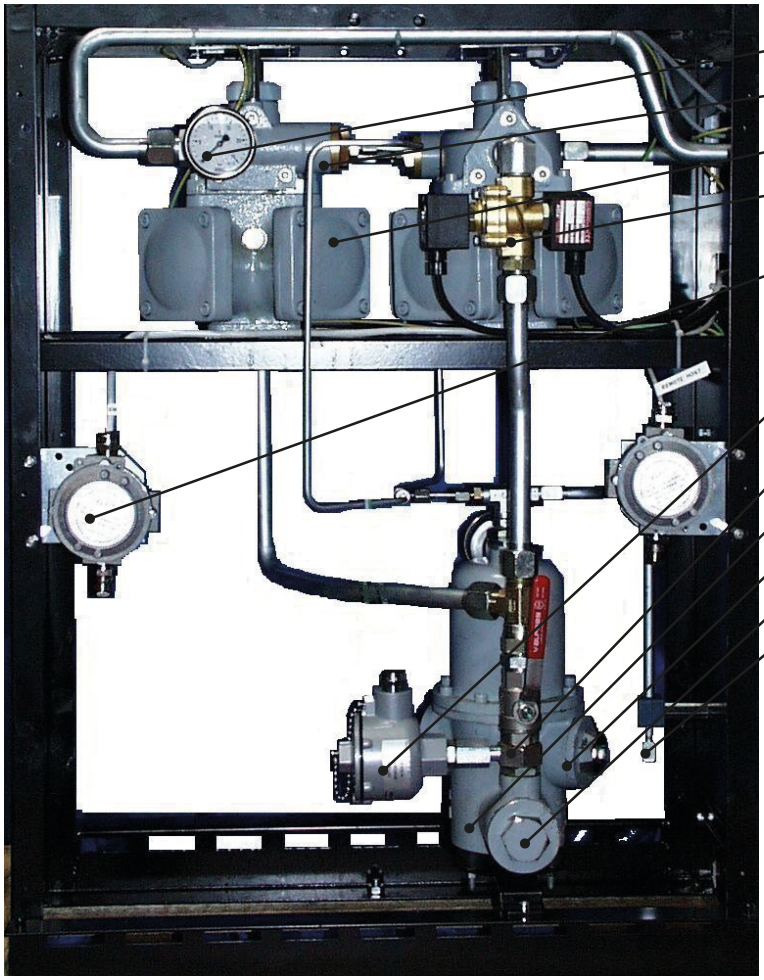
ELECTRONIC CALCULATOR – CPTH02 with electronic calibration of the meters. Equipped with serial interface RS485 or RS422 or Current Loop for remote serial connections to systems with protocols Gilbarco Pumalan, Nuovo Pignone, Dart Wayne, IFSF-LON. Back-lit LCD display with 6 digits H1. Self- diagnostic software to detect malfunctions. The data remain permanently stored in the memory, also in case of power failure. The price change or the view of totals sold can be performed by means of the keyboard or the remote system.

PRESET OF AMOUNT AND VOLUMES – performed by means of keyboards or a connected remote system

SELF-SERVICE – the model can operate in self-service mode with the proper dead man button.

ADDITIONAL SAFETY HC-CT – available the safety system called "HC-CT" designed to interrupt the flow in case of burst of the delivery hose during the filling operation.

MAIN HYDRAULIC COMPONENTS



1 Pressure gauge
2 Differential valve
3 Meter
4 Solenoid valve
5 EX electric box
6 PT100 sensor (option)
7 Ball valve
8 Degasator
9 Return vapour pipe
10 Filter
11 Check valve

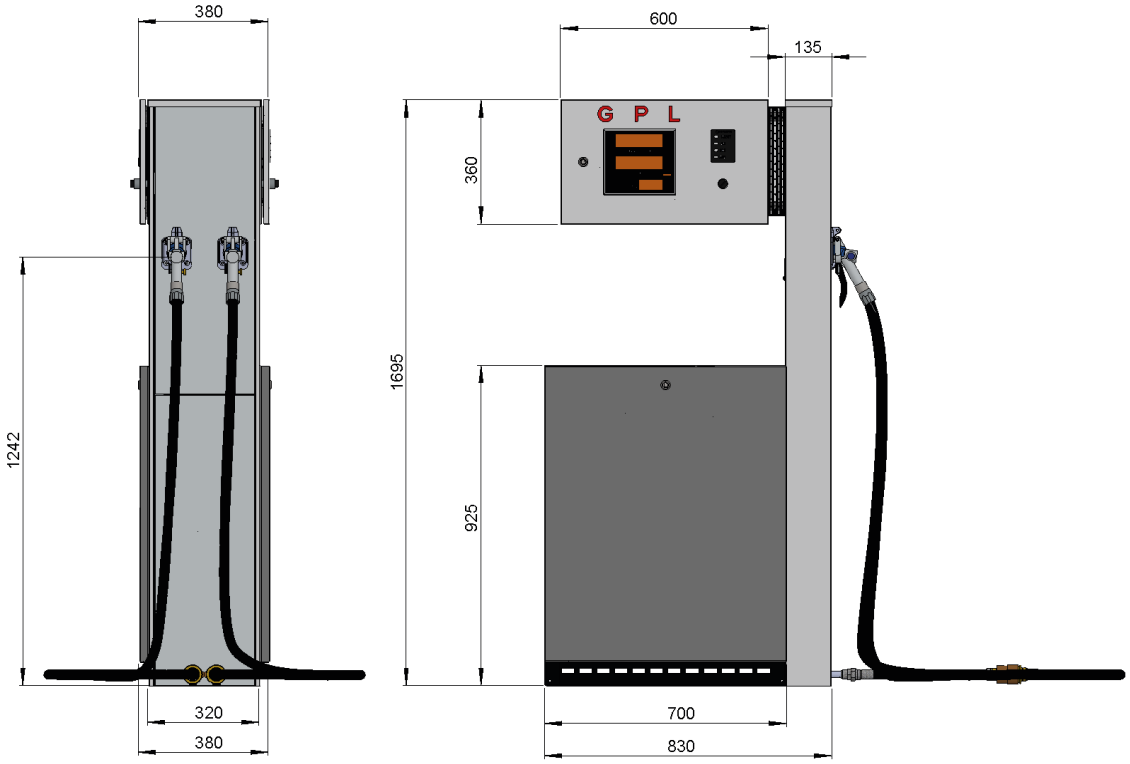
FIG. 1 - INTERNAL HYDRAULICS VANE ,
EXAMPLE WITH 1 DEGASSING UNIT



Fig.2 ANTI-TEAR ARK19 REARMABLE



Fig. 3 – Cpu Container, With Back-Lit Display , Preset Programming Keyboard, Start/Stop Switch, Keylock



DIMENSIONS

TECHNICAL FEATURES

SUPPLY : 230 Vac ± 10% 50÷60 Hz
POWER CONSUMPTION : < 150 VA
WEIGHT : SINGLE 160 DOUBLE ODD 190 kg. DOUBLE STD 205 kg.
MAX SUGGESTED OPERATING PRESSURE : 18 bar (recommended for a long life of the components)
DESIGN PRESSURE : 25 bar
MIN / MAX FLOWRATE : Qmin - Qmax 5 - 50 L/min
AMBIENT TEMPERATURE : -25 C° + 55 C° ref. MID temperature
MID ACCURACY : CLASS 1
MID ENVIRONMENT CLASSES : M1 / E1

PRODUCT CERTIFICATIONS

ATEX DIRECTIVE	TYPE CERTIFICATION FTZU ATEX 10185X
MID DIRECTIVE MODUL B	TYPE CERTIFICATION T10107

PRODUCTION CERTIFICATIONS

ATEX DIRECTIVE	FTZÚ 13 ATEX Q 010
MID DIRECTIVE	CE089

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All pictures are for only illustrative purposes.

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