



Quantium LPG



- A solution for every market
- Reliable and safe operation
- Lower total cost of ownership
- Wide range of models and options
- Compatibility with Quantum T family
- Turnkey solutions



Quantum LPG

The Quantum T series LPG dispenser has been designed to meet all your requirements for the delivery of LPG on your forecourt.

The design of the different LPG models is chosen so they fit the overall Quantum T family of fuel dispensers allowing you to build a uniform image across the forecourt.

All Tokheim LPG dispensers are SIRA-certified as conforming with the requirements of the ATEX Directive, and conform with the design requirements of the developing European standard for LPG dispensers.

The LPG dispensers are MID Factory Verified.



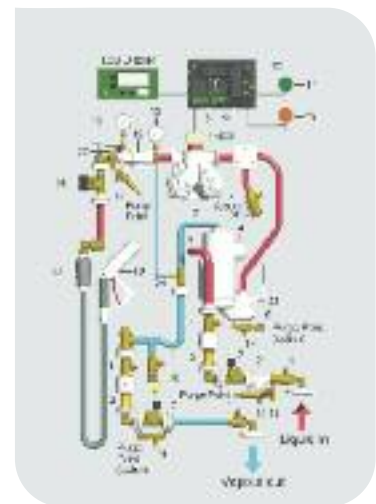
LPG Hydraulic Stack

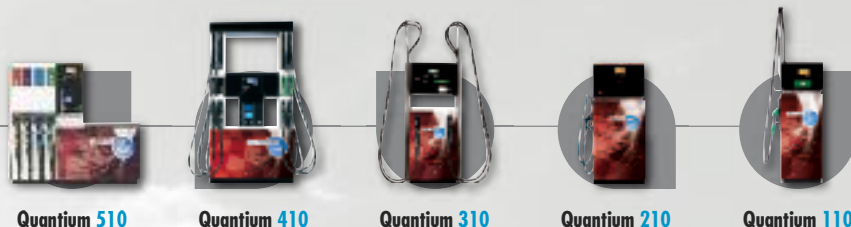


Operations

The diagram below shows the main functionalities of the LPG system. Below the key components:

- 1 Manual valve (ball) 3/4" NPT - 2 Solenoid valve - 3 Shear valve
- 4 Filter (Integral vapour separator) - 5 Vapour separator
- 6 Non return valve (Integral vapour sep - 5) - 7 Volume meter
- 8 Pulser - 9 Mechanical totaliser - 10 Calculator
- 11 Dead mans push button - 12 Differential valve
- 13 Pressure gauge - 14 Manual valve (ball) 1/4" NPT
- 15 Safety relief valve (open 24,8 Bar) - 16 Solenoid valve normal or pre-set
- 17 Break away coupling - 18 LPG Nozzle
- 19 Emergency push button - 20 ACME 1 3/4"
- 21 Coarse filter - 22 Excess flow valve
- 23 Manual valve (1/4 turn flange) - 24 Non-return valve





Technical specifications

• Environmental Conditions:

Climate: Marine, tropical, industrial & polar
Ambient temperature range: -25°C to +55°C
Atmosphere: In accordance with climate

• Characteristics:

Displacement	0,500 l
Maximum Flow-rate	50 l / min.
Minimum Flow-rate	5 l / min.
Accuracy within the flow range	± 0.3 %
Maximum service pressure	25 bar
Adjusting device operating range	-1.6 %

LPG nozzles

Tokheim continuously improves its standard LPG nozzle, by reducing 'dead volume', gas loss, ensuring safe handling and increasing the warranty period. Its standardized nozzle boot can handle a wide variety of optional LPG nozzles in a cost effective way. An optional European LPG nozzle is available covering the EN13760 standard, to have a standardized LPG connection throughout Europe, reduce leakage, increase safety, and improve overall ergonomics.

Payment ready

Both single as double sided models offer the opportunity to fit the Crypto VGA payment terminal.

Optional features

- Wide range of reusable breakaway
- Wide range of nozzles
- Emergency stop button
- Preset keypad and preset buttons (available for both Q200T as Q500T1 LPG)
- Illuminated product indication (only Quantum 200T)
- Hydraulic chair
- Wide range of livery options (e.g. stainless steel panels)
- Automatic Temperature Compensation or Temperature well for W&M companies
- Totalizers visible from outside (only Quantum 200T)

Quantum 500-series LPG Combo sub-frame

Sub-frame for improved safety, to ensure the performance of the shear valves at impact of LPG combo dispensers.

LPG Hydraulic chair

(Quantum 500-series stand-alone): Hydraulic chair for improved safety, to ensure the performance of the shear valves at impact of LPG dispensers. Also optimises filtration and isolation.

Air Separator

Improved air separator including a new filter at the inlet connection. This device will improve maintenance operation and service time for cleaning purposes.

Automatic Temperature Compensation (ATC) for LPG

The temperature compensation technology corrects the volume to a volume as if it was delivered at 15 degrees Celsius. This is to compensate any volume deviations because of temperature fluctuations.

Also a separate 'temperature well' feature is available, fitted on the inlet meter block to check the temperature of the fluid (which is required in some markets)

Quantum 200-series LPG

(Entry-level single and twin solution)

- Number of nozzles: 1 and 2
- Island orientation
- Hose management system: hose hook
- Volume only display for Fleet applications (option)



Quantum 500-series LPG

(Low profile solution)

- Number of nozzles: 1 and 2
- LPG combined models available (up to 10-hose)
- Lane orientation
- Hose management system with rope retractor



Quantum 500-series LPG design in line with petrol version, including several quality improvements. All LPG inlet connections and return gas lines are aligned for easier installation and commissioning on site.



- Manufacturing Plants
- Sales & Service Divisions
- Headquarters
- Joint-Venture

For any further information and detailed contacts for each country, please visit our website at www.tokheim.com or e-mail us at info@tokheim-international.com

Contact details

• Corporate Headquarters Europe

TOKHEIM GROUP S.A.S.
PARIS NORD 2
5, RUE DES CHARDONNETS
BP 67040 TREMBLAY EN FRANCE
95971 ROISSY CH DE GAULLE CEDEX
FRANCE
TEL: +33 (0)1 49 90 77 00
FAX: +33 (0)1 49 90 77 77

As Tokheim regularly improves its products to ever better respond to evolving market and regulatory requirements, it reserves the right to change any of the specifications of these products, and this without prior notice.

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