

Presentation from TOKICO  
LPG DISPENSER : TYseries

**TOKICO**



DISPENSER

LPG



Eco-Service Station Dispensers

LPG DISPENSER

**TY** series

Eco-Service Station Dispensers  
LPG DISPENSER

TY series



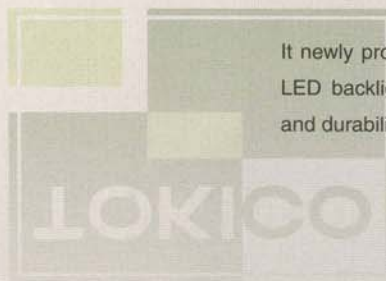
*Superior operativeness*  
*Highly accurate measurement*

**LPG dispenser with remote control system makes the operation and maintenance work very easy.**

A variety of safety systems, superior operability, and highly accurate measurements are well evaluated and TOKICO TY series LPG DISPENSER has acquired a good reputation.



It newly proposes a semi-transmissive LCD with high luminance LED backlight display, which has further improved the visibility and durability performance.



## Remote control operation

Remote control operation makes it easy to operate the various functions of dispenser, including the setting of unit price, LPG density, owner's password, calibration coefficient, etc.. It is also used for reading the management data, including the daily and accumulated sales amount, last filling data, maintenance record etc..



## Electronic calibration with remote control

Dispenser calibration is electronically operated by not using mechanical adjusting dial but by simply operating the remote control. Calibration range is wide from -9.99% to +9.99% and the calibration can be accurately made in 0.01% unit.

## Dual password data protection

Maintaining the important management data is one of the key issues to administer the daily operations. Dual password system makes it possible to ensure that important management data are securely maintained.

## New semi-transmissive LCD with high luminance LED

The display has been newly developed to improve its visibility both in day time and night time even from a distance by the adoption of semi-transmissive LCD with high luminance LED.



## Durable and accurate 4-piston flowmeter

TOKICO 4-piston flowmeter has been proven that its highly accurate performance (+/-0.4%) are maintained for a long period of use.



## Electronic temperature compensation

Because a platinum resistance thermo sensor is adopted, temperature compensation range is wide and accurate (-40 to +50 C). Density setting is made easy by remote control.





# FEATURES

Rich and varied standard functions for the highly precise measurement and user-friendly operation



## Surge current protection circuit

When the lightning is happened near to the dispenser location, its surge current may affect the main system of dispenser resulting in the damage of display part. Main control system for TOKICO dispenser is protected from a surge current by the surge current protection circuit to maintain the proper operation.

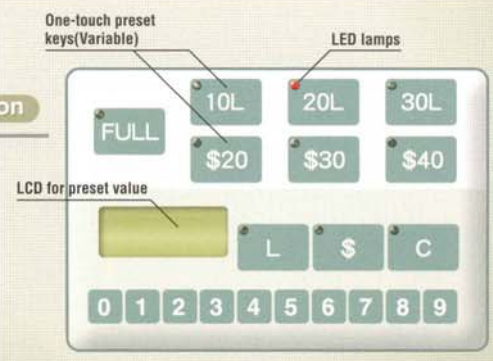


## Wide nozzle boot for various type of nozzle

TOKICO nozzle boot is designed to accept the various type of LPG nozzles. It makes it possible to use different type of nozzles on the same dispenser in order to meet the different type of LPG tanks on the LPG vehicle side.

## Multifunctional presetting keypad option

Each 3-kind of one touch keys are available for both money and volume presetting. Presetting value for each one touch key is voluntarily changed from the remote control depending on the requirement from each filling station. Presetting value can be confirmed both by LCD and LED lighting to avoid a faulty operation.



Eco-Service Station Dispensers  
LPG DISPENSER

TY series

# SAFETY

Standard safety functions ensure the safety of operation and the ease of maintenance



## Dual memory system for data security

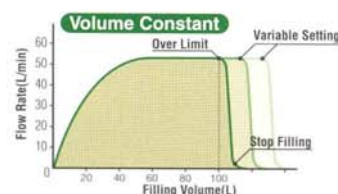
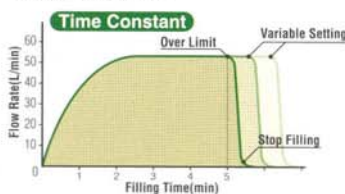
Important management data and operation parameters are maintained both in RAM and EEPROM in order to protect those data when the main control board is damaged due to accident. Restoration of data is easy by resuming from EEPROM.

## Electronic excess flow prevention

Flow speed has been constantly under observation and if an excess flow speed, caused due to accident or improper operation, is electrically detected, main valve is shut off by the electronically controlled excess flow prevention system.

## Over limit prevention system

When abnormal filling time or filling volume over the preliminarily set constant value is detected, the filling operation is automatically stopped by the over limit prevention system.





### Solid explosion proof structure

All the electric circuit and components are securely protected by the solid explosion proof structure and it has passed the examination by the Japanese explosion proof regulatory requirement.

### Intelligent self-diagnosis function

Main computer unit observe the proper operation of the entire dispenser system and an error code is shown on the display when the system error is detected by the self diagnosis function for easy maintenance.



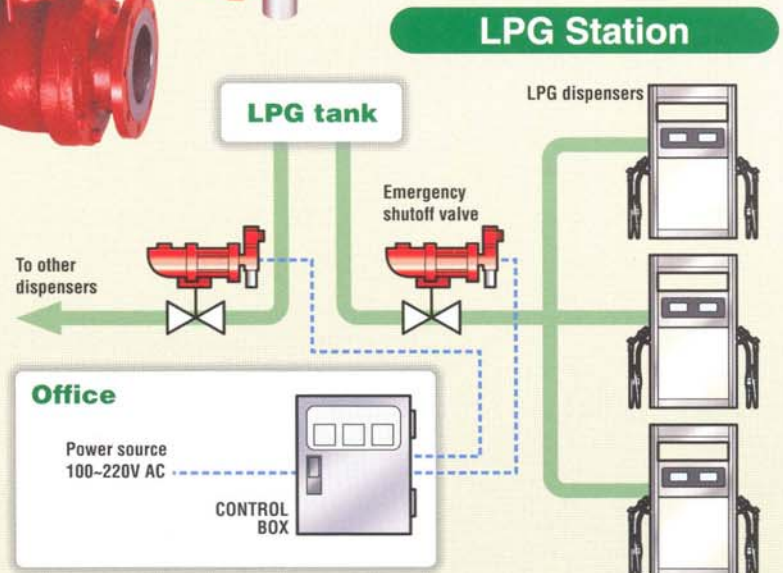
### Emergency shut off valve option



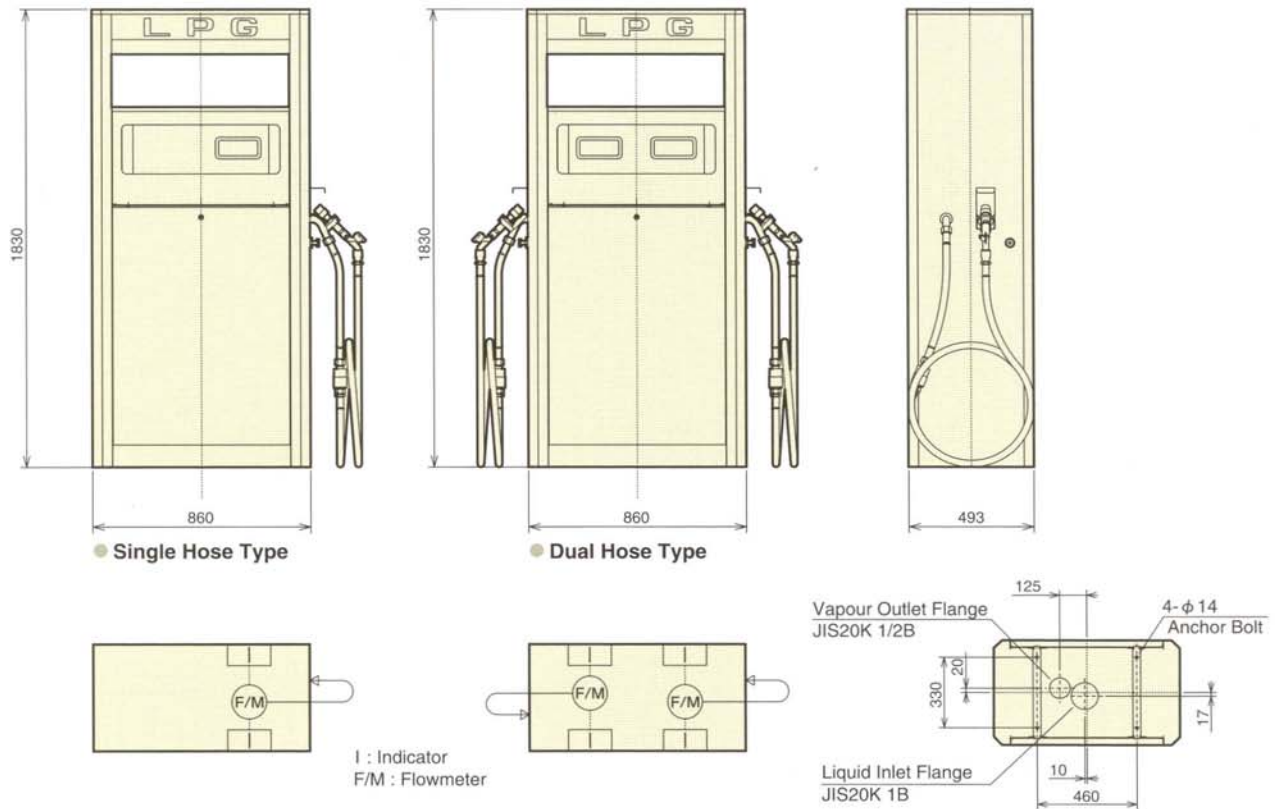
TOKICO emergency shut off valve is unique, which adopts a high pressure CO<sub>2</sub> gas cartridge to activate an actuator for closing the valve. Thus it does not require an additional pneumatic nor electric installation work achieving a reliable closing operation in case of emergency.

### Safety breakaway coupling

If a hose is accidentally pulled off when filling a car, a safety breakaway coupling is detached preventing the hose from breakage and its valve will shut off automatically.



## Dimensions



## Specifications

Model	Dual Hose Type	TY22H-C (TY22H-S : with optional presetting keypad)
	Single Hose Type	TY11H-C (TY11H-S : with optional presetting keypad)
Power Source	110V/220V AC 50/60Hz 1 Phase (Other voltage are applicable if requested.)	
Operational Flow Range	10~60 L/min	
Accuracy	±0.4% *1	
Temperature Compensating Range	-40~+50°C	
Indicator	Volume	0.01~999.99 liter
	Sales Amount	0.01~9,999.99/1~999,999 unit : currency
	Unit Price	0.01~99.99/0.1~999.9 currency per liter
	Totalizer (Electronic Type)	1~99,999,999.99 liter
Measuring Unit	4-piston type flowmeter	
Filling Nozzle	Quick-coupling type	
Filling Hose	16 φ rubber hose reinforced with wire.	
Connections	A) Liquid Line	1" JIS 20K
	B) Vapour Line	1/2" JIS 20K
Option	Presetting function with keypad	
Operating conditions	Ambient Temperature	-10~+40°C
	Relative Humidity	+5~+95% (Under non dew formation)

\*1 Total system accuracy based on the testing conditions at TOKICO's laboratory calibration

Please note that specifications are subject to change without prior notice.

## TOKICO TECHNOLOGY LTD. Overseas Sales Department

3-9-27 Tsurumi Chuo, Tsurumi-ku, Yokohama-city,  
Kanagawa, Japan 230-0051

TEL. 81-45-504-7584

FAX. 81-45-504-7550

E-mail : info@tokicotechno.co.jp

URL : http://www.tokicotechno.co.jp

