



***Arriva***  
*by Coach House®*

# Section 4

## L.P.G - Liquid Petroleum Gas Systems



# L.P.G. Systems

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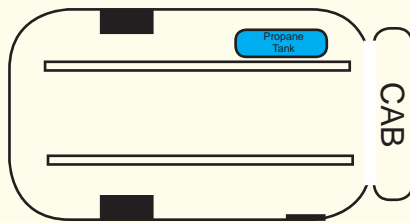


# L.P.G. Tank (Mercedes Benz Models)



## Mercedes Benz Models

The L.P.G. tank is located on the driver's side and outside the frame on the Arriva models.



Mercedes Benz models have a direct fill valve. The direct fill valve is located behind the driver's side running board.



### Safety Note:

Turn off all L.P.G. appliances when filling the tank.



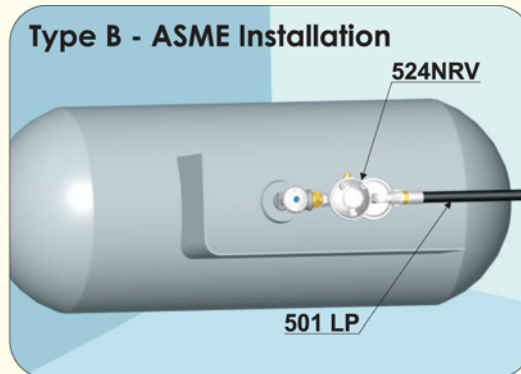
# L.P.G. Regulator

The L.P.G. system uses a two-stage regulator manufactured by Fairview Fittings to control the pressure to the L.P.G. appliances to assure the proper functioning and safe operation of the appliances. The regulator is located under the floor of the motor home near the L.P.G. storage tank and is enclosed in a protective shield to prevent damage to the regulator or clogging of the vent. If the motor home is driven through heavy snow or mud, the vent opening should be checked to make sure that it is not clogged by snow, mud or ice. An opening in the bottom of the shelf allows access to the vent.



# Recreational vehicles

Gas cylinder and regulator shall be protected by a shelter or in a cylindrical cage, see following diagram (as per NFPA 1192, paragraphs 5.2.15.6; 5.2.15.7; 5.2.15.8).



**WARNING:**

RV gas piping system must be tested for leakage prior to delivering vehicle to dealer network. Therefore, setting pressure test and leakage test have be done by authorized RV OEM. In case of any detected anomalies, the gas regulator kit is not likely to be responsible because the gas regulators are 100% tested while manufacturing.



# TECHNICAL DATA SHEET

## LOW PRESSURE TWO-STAGE LP GAS REGULATORS (GR-9950)

### Applications:

The model GR-9950 and GR-9959 regulator combines both a high pressure first stage and a low pressure second stage regulator into a single unit. Ideally designed for RV applications, these regulators ensure a smooth and continuous flow of gas to all appliances

### Specifications

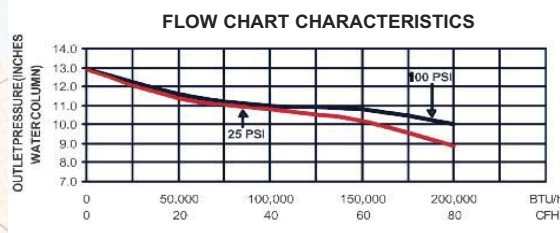
- Zinc Die Cast
- Molded Rubber Diaphragms
- CSA Listed
- 2nd Stage Relief Mechanism Per U.L. 144
- Adjusting Screw and Dust Cap Design
- Powder Coated



CSA Listed

PART No.	Inlet	Outlet	Vent Position	Capacity BTU/Hr* Propane
GR-9950	1/4 FPT	3/8 FPT	Above Outlet	225,000 BTU/Hr*
GR-9959			9:00 Vent	
GR-5950-M	GR-9950 regulator with Marine style pressure gauge			
GR-9950P	GR-9950 complete with retail Hanger Box Packaging			
GR-9952	GR-9950 regulator with Manifold Tee			
GR-9954	GR-9959 regulator with Excess Flow P.O.L.			
GR-9956	GR-9950 regulator with Excess Flow P.O.L.			
GR-9958	GR-9950 regulator with QCC1 (1-5/16 F. Acme)			
GR-9959P	GR-9959 complete with retail Hanger Box Packaging			
GR-900	Z Mounting Bracket			
BB-GR-900	Z Mounting Bracket complete with retail Blister Box Packaging			
GR-RVB	RV Mounting Bracket			
BB-GR-RVB	RV Mounting Bracket complete with retail Blister Box Packaging			
GR-5950	Protective Cover for GR-9950			
GR-5959	Protective Cover for GR-9959			

\*Based on 25 PSIG inlet pressure and 9" W.C. outlet pressure at Manufacturer's set point.  
Manufacturer's set point = 100 PSIG and 11" W.C. outlet at 40 SCFH propane.





# Regulator Freeze Up

Under some conditions, moisture may be present in the L.P. gas in your tank and this can cause the regulator to freeze up, stopping flow to the appliances. This condition occurs more frequently in cold weather or at higher altitudes and usually can be cured or prevented by having methanol injected into the L.P. G. tank. Only experienced, qualified personnel should do this. Some L.P.G. stations especially at higher altitudes, will already have methanol in the L.P. gas they dispense. It is suggested that if you plan to go to a colder climate or a higher altitude, that you wait until you reach those areas before completely filling your tank. The small cost difference is well worth it to reduce the risk of freeze up.



# Mandatory Consumer Information

The following information is being supplied to conform with the mandates of:

ANSI A119.2 / NFPA 501C-1987

and to ensure the greatest possible degree of safety for our customers. Please study this information carefully and keep it in your vehicle at all times.

Should this information be misplaced, additional copies are available from our corporate office for a nominal charge.

A)

## **WARNING**

L.P. Gas containers shall not be placed or stored inside the vehicle.

L.P. Gas containers are equipped with safety devices which relieve excessive pressure by discharging gas to the atmosphere.

B)

## **WARNING**

**IT IS NOT SAFE TO USE COOKING APPLIANCES FOR COMFORT HEATING!  
COOKING APPLIANCES NEED FRESH AIR FOR SAFE OPERATION**

Before Operation:

- 1) Open overhead vent or turn on exhaust fan.
- 2) Open window.

This warning label has been located in the cooking area to remind you to provide an adequate supply of fresh air for combustion. Unlike homes, the amount of oxygen supply is limited to the size of the recreational vehicle, and proper ventilation when using the cooking appliance(s) will avoid dangers. Cooking appliances should not be used for comfort heating as the danger of asphyxiation is greater when the appliance is used for long periods of time.

- C) A warning label has been located near the L.P. Gas container. This label reads:

**DO NOT FILL LP-GAS CONTAINER(S) TO MORE THAN 80 PERCENT  
OF CAPACITY**

Overfilling the L.P. Gas container can result in uncontrolled flow which can cause fire or explosion. A properly filled container will contain approximately 80 percent of its volume as liquid L.P. Gas. Safety regulation prevents filling over 80%.

D) **WARNING**

Portable fuel-burning equipment, including wood and charcoal grills and stoves, must not be used inside the recreational vehicle. The use of this equipment inside the recreational vehicle may cause fires or asphyxiation.

E) **WARNING**

Storage of L.P. Gas containers, gasoline or other flammable liquids inside your vehicle - even for short periods of time - presents a risk of fire and/or explosion. All flammable liquids should be stored safely in a well-ventilated area outside your vehicle and in proper containers.

- F) The following label has been placed in the vehicle near the range area.

**IF YOU SMELL GAS**

- 1) Extinguish any open flames, pilot lights and all smoking materials
- 2) Do not touch electrical switches.
- 3) Shut off the gas supply at the tank valve(s) or gas supply connection.
- 4) Open doors and other ventilation openings.
- 5) Leave the area until odor clears.
- 6) Have the gas system checked and leakage source corrected before using again.

- G) L.P. Gas regulators must always be installed with the diaphragm vent facing downward. Regulators that are not in compartments have been equipped with a protective cover. Make sure that regulator vent faces downward and the cover is kept in place to minimize vent blockage which could result in excessive gas pressure causing fire or explosion.