

LPG Fuel System Approvals

PURSUANT to regulation 90B of the Traffic Regulations 1976* (as inserted by the Traffic Regulations 1976 Amendment No. 7) and pursuant to the powers delegated to me by the Secretary for Transport, I, Trevor Alan Lister, Senior Automotive Engineer, hereby approve the components listed in the Schedule hereto for inclusion in any LPG automotive fuel system installed and operated in accordance with the requirements of New Zealand Standard NZS 5422 Part 1, 1980 (and any standard made in amendment thereto or in substitution therefor) subject to the conditions (if any) set out in respect of any component in the said Schedule.

SCHEDULE

LPG FUEL CYLINDERS MANUFACTURED PRIOR TO 1 MARCH 1980

Reference	Manufacturer	Number	Material	Specification	Independent Inspection Authority	Nominal Water Capacity (litres)	Working Pressure Rating (MPa)	Test Pressure (MPa)
AF L03 062	Manchester Tank Tank Co., U.S.A.	M 988	Steel	ASME Sec 8 Div 1	ASME	135	1.72	2.58
AF L03 063						160	1.72	2.58
AF L03 064						185	1.72	2.58
AF L03 065		M 989	Steel	ASME Sec 8 Div 1	ASME	195	1.72	2.58
AF L03 066		M 1009	Steel	ASME Sec 8 Div 1	ASME	167	1.72	2.58
AF L03 067		M 1553	Steel	ASME Sec 8 Div 1	ASME	161	1.72	2.58
AF L03 068		M 1988	Steel	ASME Sec 8 Div 1	ASME	144	1.72	2.58
AF L03 069						225	1.72	2.58
AF L03 070	Brunner Eng.	1-45-90 TL (16 × 30)	Steel	ASME Sec 8 Div 1	ASME	88.5	1.72	2.58
AF L03 071	Mfg. Inc. U.S.A.	1-45-90 TL (18 × 36)	Steel	ASME Sec 8 Div 1	ASME	135	1.72	2.58
AF L03 072	Gregg Mfg. Co. U.S.A.	2301	Steel	ASME Sec 8 Div 1	ASME	85.5	1.9	2.84

THE LPG fuel cylinders listed in this Schedule are approved subject to the following conditions—

1. That they be permanently and clearly marked, either on a thickened portion of the cylinder or on a suitably attached metal plate, with characters not less than 6 mm high if space permits but in any case not less than 3 mm high, displaying the following information:

- The specification to which the cylinder was manufactured.
- The manufacturers name or mark, and the serial number of the cylinder.
- The date of the original cylinder inspection and the identification mark of the inspection authority who made the inspection.
- The date of any periodic cylinder test and the identification mark of the cylinder testing station who made each test.
- The cylinder test pressure.
- The nominal water capacity of the cylinder.
- The tare weight of the cylinder.
- An identification that the cylinder is suitable for use with LPG.

2. That they be provided with valves and fittings which provide the following functions—

- Filling connection incorporating a non-return valve.
- Service valve incorporating an excess flow valve.
- Contents gauge.
- Safety valve.
- A fixed liquid level indicator or an automatic fill shut off device which prevents the cylinder being filled beyond 85 percent of the total cylinder capacity.

Valves and fittings shall have a service pressure rating of at least that of the cylinder to which they are fitted and shall be dimensioned, threaded and marked in accordance with the requirements of Section 2.3 of New Zealand Standard NZS 5422 "The Use of LPG and CNG Fuels in Internal Combustion Engines—Part 1 LPG Fuel".

3. That they be tested at periods not exceeding 5 years in accordance with the periodic test requirements laid down in the specification to which the cylinder was manufactured.

4. That they be fitted to a motor vehicle in such a position that they will not be subjected to the direct rays of the sun, either by fitting them within a suitable vehicle compartment, or by providing a suitable shield if the cylinders are fitted to the exterior of the vehicle.

Dated at Wellington this 11th day of May 1982.

T. A. LISTER, Senior Automotive Engineer.

*S.R. 1976/227

- Amendment No. 1: S.R. 1978/72
- Amendment No. 2: S.R. 1978/301
- Amendment No. 3: S.R. 1979/128
- Amendment No. 4: S.R. 1980/31
- Amendment No. 5: S.R. 1980/115
- Amendment No. 6: S.R. 1981/158
- Amendment No. 7: S.R. 1981/311
- Amendment No. 8: S.R. 1982/93

(M.O.T. 14/1/17)

EXPLANATORY NOTE

This note is not part of this notice, but is intended to indicate its general effect.

The effect of this notice is to allow the continued use of LPG fuel cylinders which are known to have been imported into New Zealand prior to the introduction of the Dangerous Goods (Class 2-Gases) Regulations 1980 and which were acceptable under the previous dangerous goods requirements BUT whose working pressure rating would disqualify them for approval for general use under the Traffic Regulations 1976. They are approved subject to the additional proviso that they must not be exposed to direct sunlight (to reduce the possibility that solar radiation would raise the temperature of the contents of cylinder such that the developed pressure of the contents exceeded their working pressure rating.)

The terms of this approval does not allow the continued importation of such LPG fuel cylinders.