

LPG Fuel System Approvals—Concessional Fuel Cylinder 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, Robert Norman Abram, Chief Automotive Engineer, hereby approve the components listed in the First 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 of approval set out in respect of any component in the said First Schedule, and I hereby revoke those *Gazette* notices listed in the Second Schedule hereunder.

FIRST SCHEDULE
LPG FUEL CYLINDERS

MOT Reference	Manufacturer	Country of Origin	Specification	Material	Inspection Authority	Working Pressure Rating (MPa)	Test Pressure (MPa)	Nominal Water Capacity (litres)
AF L03C 001	Manchester Tank Co.	U.S.A.	ASME 8/1	Steel	ASME	1.72 (250 psi)	2.58 (375 psi)	135 (36 US gal)
002			ASME 8/1	Steel	ASME	1.72 (250 psi)	2.58 (375 psi)	160 (42 US gal)
003			ASME 8/1	Steel	ASME	1.72 (250 psi)	2.58 (375 psi)	185 (49 US gal)
004			ASME 8/1	Steel	ASME	1.72 (250 psi)	2.58 (375 psi)	194 (51 US gal)
005			ASME 8/1	Steel	ASME	1.72 (250 psi)	2.58 (375 psi)	167 (44 US gal)
006			ASME 8/1	Steel	ASME	1.72 (250 psi)	2.58 (375 psi)	161 (43 US gal)
007			ASME 8/1	Steel	ASME	1.72 (250 psi)	2.58 (375 psi)	163 (43 US gal)
008			ASME 8/1	Steel	ASME	1.72 (250 psi)	2.58 (375 psi)	225 (60 US gal)
AF L03C 009	Brunner Eng.	U.S.A.	ASME 8/1	Steel	ASME	1.72 (250 psi)	2.58 (375 psi)	88 (23 US gal)
010			ASME 8/1	Steel	ASME	1.72 (250 psi)	2.58 (375 psi)	135 (36 US gal)
011			ASME 8/1	Steel	ASME	1.72 (250 psi)	2.58 (375 psi)	273 (72 US gal)
AF L03C 012	Gregg Mfg. Co.	U.S.A.	ASME 8/1	Steel	ASME	1.9 (275 psi)	2.85 (413 psi)	85 (23 US gal)
AF L03C 013	Brunner Eng.	U.S.A.	ASME 8/1	Steel	ASME	1.94 (281 psi)	2.91 (422 psi)	135.1 (36 US gal)
014			ASME 8/1	Steel	ASME	1.94 (281 psi)	2.91 (422 psi)	194.6 (51 US gal)
AF L03C 015	Manchester Tank Co.	U.S.A.	ASME 8/1	Steel	ASME	1.72 (250 psi)	2.58 (375 psi)	88 (23 US gal)
016			ASME 8/1	Steel	ASME	1.72 (250 psi)	2.58 (375 psi)	184 (49 US gal)
AF L03C 017	Brunner Eng.	U.S.A.	ASME 8/1	Steel	ASME	1.93 (281 psi)	2.58 (375 psi)	227 (60 US gal)
AF L03C 018	Van Leer	Belgium	Grondslagen	Steel	Dienst Voor Het Stoomwezen	1.8	3.0 3.3	various
AF L03C 019	Witte Van Moort	Holland	Grondslagen	Steel	Dienst Voor Het Stoomwezen	1.8	3.0 3.3	various
AF L03C 020	Van Leer	Belgium	Apragaz 72/5	Steel	Apragaz	1.8	3.0	various
AF L03C 021	Ghezzi Fratelli	Italy	Apragaz 72/5	Steel	Apragaz	1.8	3.0	various

CONDITIONS OF APPROVAL

LPG fuel cylinders are approved subject to the following conditions—

1. That they be permanently and clearly marked, 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:
 - (a) The specification to which the cylinder was manufactured.
 - (b) The manufacturer's name or mark and the serial number of the cylinder.
 - (c) The date of the original cylinder inspection and the identification mark of the inspection authority who made the inspection.
 - (d) The date of any periodic cylinder test and the identification mark of the cylinder testing station who made each test.
 - (e) The cylinder test pressure.
 - (f) The nominal water capacity of the cylinder.
 - (g) The tare weight of the cylinder.
2. That they be clearly marked or labelled to indicate that the cylinder is suitable for use with LPG.
3. That they be provided with valve threads and fittings which provide the following functions—
 - (a) Filling connection incorporating a non return valve.
 - (b) Service valve incorporating an excess flow valve.
 - (c) Contents gauge.
 - (d) Safety valve.
 - (e) 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".
4. That they be tested at periods not exceeding five years in accordance with the requirements of Australian Standard AS 2337-1980 and in accordance with the periodic test requirements laid down in the specification to which the cylinder was manufactured.