

CNG 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 CNG fuel system installed and operated in accordance with the requirements of New Zealand Standard NZS 5422, Part 2, 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
CNG FUEL CYLINDERS

MOT Reference	Manufacturer	Country of Origin	Specification	Material	Inspection Authority	Test Pressure (MPa)
AF C 03B 023	BoGap	Italy	Ital Regs DM 12/9/25 (ANCC Rules)	Steel	Lloyds	29.4

CONDITIONS OF APPROVAL

CNG fuel cylinders are approved subject to the following conditions—

1. That they be permanently and clearly marked, on a thickened portion of the cylinder, 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 design charging pressure of the cylinder at 15°C.
 - (g) The nominal water capacity of the cylinder.
 - (h) Where required by the marking provisions of the specification to which the cylinder was manufactured, the tare weight of the cylinder.
2. That they be clearly marked or labelled to indicate that the cylinder is suitable for use with CNG.
3. That they be provided with valve threads of the form specified in British Standard BS 341 "Valve Fittings for Compressed Gas Cylinders".
4. That they be provided with a cylinder shut off valve designed for a working pressure of 16.5 MPa and capable of withstanding the test pressure of the cylinder. Cylinder shut off valves shall be fitted with a handwheel to facilitate ease of opening and closing of the valve and shall be fitted with a pressure relief device, which remains in contact with the gas contained in the cylinder whether the handwheel is in the open or closed position, comprising of a burst disc backed by fusible alloy. The fusible alloy is to have a nominal yield temperature of 100° centigrade and the burst disc shall yield at a pressure of not less than 24.75 MPa and not more than the test pressure of the cylinder. Cylinder valves shall be provided with an outlet thread of ¼ in. NPT (female) and a stem thread compatible with the cylinder neck thread.
5. That they shall not be charged with CNG to a greater pressure than 16.5 MPa at 15° centigrade.
6. 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.

Dated at Wellington this 7th day of September 1983.

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)

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SCHEDULE

MOT Reference	Description
AF C 09 009	CNG Low Pressure sensor indicators manufactured by Philpott Electronics of Te Awamutu and bearing the model designation "PE-7"

Dated at Wellington this 22nd day of September 1983.

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

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