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INLAND TRANSPORT COMMITTEE

Working Party on the Construction of Vehicles

Meeting of Experts on Pollution and Energy (GRPE)

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PROPOSAL FOR AMENDMENTS TO REGULATION No.110  
(Specific components CNG)

Transmitted by the Expert from the Italian delegation

Note: The text reproduced below was prepared by Italian Delegation in order to amend the text of Regulation No. 110.

**A. PROPOSAL**

**Annex 3 - Appendix A**

Paragraph A.24 , (Pressure relief device requirements), amend to read :

- .....
- (a) One specimen shall be held at a controlled temperature of not less than 95°C and a pressure .....(instead of 100°C)

**Annex 3 – Appendix A,**

Add a new paragraph. A.28 to read:

“A.28     Manual valve device requirements

One specimen shall be submitted to a fatigue test at a pressure cycling rate not to exceed 4 cycles per minute as follows:

- (i)       held at 20 °C while pressured for 2000 cycles between 2 MPa and 26 MPa;

**Annex 3 – Appendix D, amend to read:**

- .....
- (d) serial and part number

**Annex 4A,**

Add a new paragraph 6 to read:

“6         Manual Valve

6.1       The manual valve device in Class 0 shall be designed to withstand a pressure of 1.5 times the working pressure.

6.2       The manual valve device in Class 0 shall be designed to operate at a temperature from –40°C to 85 °C.

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**B. JUSTIFICATION**

**Re: Annex 3, Appendix A, A24**

The maximum ambient temperature at normal conditions, without fire, is normally considered 90°C in automotive designing for the components on board. Moreover, since PRDs are designed to operate at the temperature of 110 +/- 10 °C, they could melt at 100 °C.

**Re: Annex 4A, A28**

See justification to the previous amendment

**Re: Annex 3 Appendix D**

This editorial amendment is required for consistency reason with Annex 3 – 11. Marking Par. 11.1 .....  
(iv) Cylinder identification (applicable part number and a serial number unique for every cylinder.)

**Re: Annex 4A, paragraph 6**

In the original text there was a lack of prescriptions and the experience revealed the need to provide for them.

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