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AMENDMENT 1
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**Road vehicles — Liquefied petroleum
gas (LPG) fuel systems components —**

**Part 6:
Pressure relief valves (PRV)**

AMENDMENT 1

*Véhicules routiers — Équipements pour véhicules utilisant le gaz de
pétrole liquéfié (GPL) comme combustible —*

Partie 6: Vannes de contrôle de la surpression

AMENDEMENT 1



Reference number
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Road vehicles — Liquefied petroleum gas (LPG) fuel systems components —

Part 6: Pressure relief valves (PRV)

AMENDMENT 1

Clause 3, add the following term entry.

3.2

flow capacity

measured relieving capacity of a pressure relief valves (PRV) measured at the flow-rating pressure, expressed in m³/min of air at a temperature of 15,6 °C and at a pressure of 100 kPa

Clause 4, add the following item.

d) the flow capacity.

Clause 5, first list item.

Replace the text with the following:

— mounting location (shall communicate with the vapour phase portion of the tank); and

6.1

Replace Table 1 with the following:

Table 1 — Applicable tests

Test	Applicable	Test procedure as required by ISO 20766-2	Specific test requirements of this document
Hydrostatic strength	X	X	X (see 6.2)
Leakage	X	X	X (see 6.3)
Excess torque resistance	X	X	
Bending moment	X	X	
Continued operation	X		X (see 6.4)
Corrosion resistance	X	X	
Operational test	X		X (see 6.5)
Vibration resistance	X	X	
Brass material compatibility	X	X	
Oxygen ageing	X	X	

Table 1 (continued)

Test	Applicable	Test procedure as required by ISO 20766-2	Specific test requirements of this document
Non-metallic material immersion	X	X	
Ozone ageing	X	X	
Resistance to dry-heat	X	X	
Temperature cycle test	X	X	
Flow capacity test	X		X (see 6.6)

6.5.2, c)

Replace the text with the following:

c) Repeat a) and b) at $-40\text{ }^{\circ}\text{C}$ or $-20\text{ }^{\circ}\text{C}$ and $85\text{ }^{\circ}\text{C}$ or $120\text{ }^{\circ}\text{C}$ (if required by the operating conditions). At each test temperature, the following criteria shall be met:

6.6

Add a new subclause.

6.6 Flow capacity test

A flow capacity test on each sample is to be conducted at a flow-rating pressure of 120 % of the maximum set pressure. The measured standard flow capacity should be at least $17,7\text{ m}^3/\text{min}$ when the pressure relief valve is considered a pressure relief device. In other cases, the minimum flow capacity shall be at least $Q \geq 10,66 \times A^{0,82}$,

where

Q is the flow of air in standard m^3/min (100 kPa absolute at $15\text{ }^{\circ}\text{C}$);

A is the exterior surface of the container in m^2 .

During flow capacity tests on each sample, there shall be no evidence of chattering or other abnormal operating conditions.

The flow capacity of each sample of a safety valve shall fall within a range of 10 % of the highest observed capacity.

6.7

Add a new clause.

6.7 Creep test

A non-metallic part containing liquid LPG shall comply with the leakage tests mentioned in 6.3 after having been submitted to a hydraulic pressure of 2,25 times the maximum operating pressure at a temperature of $120\text{ }^{\circ}\text{C}$ during a minimum of 96 h. Water or any other suitable hydraulic fluid may be used as a test medium.