

Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

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Item 2 of the provisional agenda

Tanks

Rupture pressure of bursting discs in 6.8.2.2.10

Transmitted by the Government of France

1. In March 2017 the Working Group on Tanks proposed to modify the second paragraph of 6.8.2.2.10 to read (new wording in *italic* script, deleted wording ~~stricken~~ through):

“The bursting disc shall rupture at a nominal pressure [between 0.9 to 1.0 times the test pressure], except for tanks intended for the carriage of compressed, liquefied or dissolved gases where the arrangement of the bursting disc and safety valve shall be such as to satisfy the competent authority. A pressure gauge or other suitable indicator shall be provided in the space between the bursting disc and the safety valve, to enable detection of any rupture, perforation or leakage of the disc which may disrupt the action of the safety valve.”

2. It was decided to keep the new value in square brackets for later confirmation.

3. To clarify this new requirement on the set pressure of the bursting disc and avoid misunderstanding we propose to describe it as follows.

Proposal

4. **6.8.2.2.10** Amend the first sentence of the second sub-paragraph to read as follows:

“Except for tanks intended for the carriage of compressed, liquefied or dissolved gases where the arrangement of the bursting disc and safety valve shall be such as to satisfy the competent authority, burst pressures of the bursting disc shall satisfy the following requirements:

- the minimum burst pressure at 20 °C, tolerances included, shall be greater than 0.9 times the test pressure,
- the maximum burst pressure at 20 °C, tolerances included, shall be less than the test pressure, and
- the burst pressure at the maximum service temperature shall be higher than the maximum working pressure.

5. Consequential amendment

In **1.6.3.49** and **1.6.4.51**, replace « nominal pressure of the bursting disc » by « burst pressure of the bursting disc ».

6.8.2.2.10 Modifier la première phrase du deuxième paragraphe pour lire comme suit

« Sauf pour les citernes destinées au transport des gaz comprimés, liquéfiés ou dissous pour lesquelles la disposition du disque de rupture et de la soupape de sécurité doit satisfaire l'autorité compétente, les pressions d'éclatement des disques de rupture doivent respecter les règles suivantes:

- la pression minimale d'éclatement à 20°C, tolérances incluses, doit être supérieure à 0.9 fois la pression d'épreuve,

- la pression maximale d'éclatement à 20°C, tolérances incluses, doit être inférieure à la pression d'épreuve, et

- la pression d'éclatement à la température maximale de service doit être supérieure à la pression maximale de service. »

Amendement de conséquence :

Aux **1.6.3.49** et **1.6.4.51**, remplacer « pression nominale du disque de rupture » par « pression d'éclatement du disque de rupture ».
