Guidelines on how to apply standard EN 13094:2015 in order to comply with RID

The European standard EN 13094 specifies requirements for the design and construction of metallic gravity-discharge tanks intended for the carriage of substances having a vapour pressure not exceeding 110 kPa (absolute pressure) for which a tank code with letter “G” is given in Chapter 3.2 of RID.

In order to comply with the requirements of RID, the following amendments to EN 13094:2015 shall be made.

1. Amendment of 3.1, Terms and definitions

   Delete the definition of maximum working pressure in 3.1.4.

2. Amendment of 6.4, Dynamic conditions

   In the first paragraph of 6.4.2, replace “Pv” with “Pt”, where Pt = static pressure (gauge pressure) in Megapascals (MPa).

3. Amendment of 6.5, Pressure conditions

   3.1 Amendment of 6.5.1

   Delete “c) 1.3 times the maximum working pressure”.

   3.2 Amendment of 6.5.2

   Replace “1.3 × (Pt + Ps)” with “max (0.2; 1.3 × Pt_water; 1.3 × Pt)”.


4.1 Amendment of A.5.2.2.1, Table A.2, Pressures

   Replace N° 2 “Maximum working pressure b, Pms” with “Opening pressure of the breather device, Ps”.

   Delete “bPms is the maximum of Pvd, Ps, Pd and Pr”.

4.2 Amendment of A.5.2.2.2, Table A.3, Calculation pressure in service conditions

   In 4, 5, 6 and 7, replace “Pms” with “Ps”.
4.3 Amendment of 5.6.2.1.2, Tensile stress due to pressure during transport

*In a) Force, replace* \( P_{ms} \) *with* \( P_{ts} \).