INTERNATIONAL STANDARD ISO 23251:2006(E)
TECHNICAL CORRIGENDUM 1

Published 2007-08-15

Petroleum, petrochemical and natural gas industries — Pressure-relieving and depressuring systems

TECHNICAL CORRIGENDUM 1

Industries du pétrole, de la pétrochimie et du gaz naturel — Systèmes de dépressurisation et de protection contre les surpressions

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 23251:2006 was prepared by Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*, Subcommittee SC 6, *Processing equipment and systems.*

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Page 38, Figure 1:

Replace Key item "Y" with the following:

Y   plate temperature, averaged over 2,3 m^2 (24 ft^2), expressed in degrees Celsius (degrees Fahrenheit)

Page 42, 5.15.2.2.2:

Replace the definitions for A, A', p_1 below Equation (8) with the following:

A is the effective discharge area of the valve, expressed in square inches;

A' is the exposed surface area of the vessel, expressed in square feet;

p_1 is the upstream relieving absolute pressure, expressed in psi;

ICS 75.180.20   **Ref. No. ISO 23251:2006/Cor.1:2007(E)**

Published in Switzerland

Page 42, 5.15.2.2.2:

Replace the definitions for T_w and T_1 below Equation (9) with the following:

T_w is the recommended maximum wall temperature of vessel material, expressed in °R;

T_1 is the gas absolute temperature, at the upstream relieving pressure, determined from Equation (11), expressed in °R.

Page 42:

Delete footnote 2) at the bottom of page.

Page 42, 5.15.2.2.2:

Replace the definition for g below Equation (10) with the following:

g is the gravitational constant, expressed in ft-lb/lbf-s^2.

Page 43, 5.15.2.2.2:

Replace the definitions for p_n and T_n below Equation (11) with the following:

p_n is the normal operating gas absolute pressure, expressed in psi;

T_n is the normal operating gas absolute temperature, expressed in °R.

Page 106, 7.3.1.3.4:

Replace "perf" with "per" in the definition of G_{Ci}.

Page 110, 7.3.1.3.4:

Replace list item e) with the following:

e)   Calculate G, in kilograms per second per square metre (pounds per second per square foot);

Page 117, 7.3.2.1.2:

Replace Equations (38) and (39) with the following:

In SI units:

$$C(Re)^2 = \frac{0{,}13 \times 10^8 \, \rho_v D^3 (\rho_l - \rho_v)}{\mu^2} \tag{38}$$

In USC units:

$$C(Re)^2 = \frac{0{,}95 \times 10^8 \, \rho_v D^3 (\rho_l - \rho_v)}{\mu^2} \tag{39}$$

Page 136, 7.3.4.3.3:

Replace first sentence with the following:

The noise level at 100 ft from the point of discharge to the atmosphere can be calculated in USC units as follows:

Page 145, Figure A.1:

Replace Key items "Z2" and "Z3" with the following:

Z2   relative molecular mass
Z3   latent heat of vaporization, expressed in kilojoules per kilogram