

Date of Issue: June 21, 2007

Affected Publication: API Standard 521, *Pressure-relieving and Depressuring Systems*, Fifth Edition, January, 2007

ERRATA

This erratum corrects editorial errors in the fifth edition of API 521.

Title page; replace the ISO 23251 title with the following:

ISO 23251, (Identical), Petroleum, petrochemical, and natural gas industries—
Pressure-relieving and depressuring systems

Page 38, Figure 1; replace key item “Y” below Figure 1 with the following:

Y plate temperature, averaged over 2,3 m² (24 ft²), expressed in degrees Celsius
(degrees Fahrenheit)

Page 42, Section 5.15.2.2.2; replace the definitions for A, A', p1 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;

p₁ is the upstream relieving absolute pressure, expressed in psi;

Page 42, Section 5.15.2.2.2; replace the definitions for T_w and T₁ below Equation (9) with the following:

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

T₁ is the gas absolute temperature, at the upstream relieving pressure, determined from Equation (11), expressed in °R.

Page 42; delete footnote 2) at bottom of page

Page 42, Section 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-s².

Page 43, Section 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, Section 7.3.1.3.4; in definition of G_{Ci} replace "perf" with "per".

Page 110, Section 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, Section 7.3.2.1.2; Equations 38 and 39 should read as follows:

In SI units:

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

In USC units:

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

The remainder of the section is unchanged.

Page 136, Section 7.3.4.3.3; replace first sentence with the following:

The noise level at 30 m (100 ft) from the point of discharge to the atmosphere can be calculated in USC units as follows:

Page, 145; replace key item "Z2" and "Z3" below Figure A.1 with the following:

Z2 relative molecular mass

Z3 latent heat of vaporization, expressed in kilojoules per kilogram