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AMENDMENT 1
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Safety devices for protection against excessive pressure —

Part 1: Safety valves

AMENDMENT 1

Dispositifs de sécurité pour protection contre les pressions excessives —

Partie 1: Soupapes de sûreté

AMENDEMENT 1

Reference number
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Amendment 1 to ISO 4126-1:2013 was prepared by Technical Committee ISO/TC 185, *Safety devices for protection against excessive pressure*.

Safety devices for protection against excessive pressure —

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Clause 7.2.1 General Requirements

Delete the text and substitute:

7.2.1 General Requirements

The set pressures at which the operating characteristics are determined shall be the minimum and maximum set pressures for which the spring is designed. Valves for air or other gas service shall be tested using air or any other gas of known characteristics or superheated steam with a minimum of 10 °C of superheat. Valves for steam service shall be tested on steam, air or other gas of known characteristics. Valves for liquid service shall be tested on water or other liquids of known characteristics.

The allowable tolerances or limits as applicable on the operating characteristics are as follows:

a) set pressure: ±3 % of set pressure or ±0,1 bar, whichever is the greater;

b) lift at overpressure: not less than the values stated by the manufacturer;

c) overpressure: the value stated by the manufacturer but not exceeding 10 % of set pressure or 0,1 bar, whichever is greater;

d) blowdown: not greater than the value stated by the manufacturer, but within the following limits:

— compressible fluids: minimum: 2,0 % [not applicable to safety valves with proportional opening characteristics according to f)], maximum: 15 % or 0,3 bar, whichever is greater;

— incompressible fluids: minimum: 2,5 % [not applicable to safety valves with proportional opening characteristics according to f)], maximum: 20 % or 0,6 bar, whichever is greater;

e) overpressure and blowdown of restricted lift valves shall have the same tolerances or limits as the unrestricted lift valves;

f) overpressure and blowdown of valves with proportional opening characteristics shall be verified and be stable for various lifts between the minimum and maximum stated by the manufacturer. A curve shall be established for valve lift versus overpressure.

ICS 13.240

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