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Process Valve Networking Monitoring and Control



Application of the Pressure Equipment Directive (97/23/EC)

K44 'Checktite' swing-check valve.

The Pressure Equipment Directive (PED) defines the statutory requirements for qualifying valves dependent on a number of valve and application parameters i.e. valve size, applied pressure and media.

The quality assurance modules to be applied range from 'sound engineering practice' through to independent verification of design and manufacture by a Notified Body.

The Directive currently applies to valves above DN25 (1") and pressures above 0,5 bar g (7p.s.i).

Liquids and gases are categorised into Group 1 and 2.

Group 1 comprises liquids and gases defined as:

- explosive
- extremely flammable
- highly flammable
- flammable (where the maximum allowable temperature is above flash point)
- very toxic
- oxidising (causing corrosion to the pressure vessel)

Group 2 comprises all other liquids or gases not covered by group 1.

The Directive states that 'sound engineering practice' (SEP) can be applied to valves in the range DN32 to DN50 for the following:

Gases

- Group 2 up to 20 barg

Liquids

- Group 1 up to 40 barg
- Group 2 to current K44 limits.

(Please refer to the pressure temperature graph which can be found on K Controls web site.

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CE marking is not permitted on SEP certified products.

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Approved