



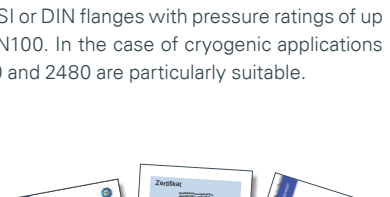


VALVES USED IN THERMAL EXPANSION APPLICATIONS

The ideal way to protect plants, also in the case of thermal expansion

In cases where over-pressure occurs due to thermal expansion it is necessary to protect the plant to avoid damage. By means of the installation of a safety valve, the excess medium resulting from thermal expansion is relieved. This may either be in liquid or gaseous form. Also in such a case, Goetze is your partner for safety and offers you the series 451/851 and 2400/2480 safety valves in well-proven Goetze quality. Often thermal expansion occurs in oil- and gas-applications in the case of cascaded installations. These are shut-off by means of shut-off valves and the medium is directed through a number of sections into the storage tank. In order to always guarantee the required pressure-relief, safety valves are installed. However special technical specifications must be taken into account:

In the case of oil- and gas-applications the series 451/851, with slip on ANSI or DIN flanges with pressure ratings of up to Cl. 600 or PN100. In the case of cryogenic applications the series 2400 and 2480 are particularly suitable.



Thermal Expansion

We understand the term „thermal expansion“ to mean the physical process which occurs when a medium at a lower temperature is heated-up to a higher temperature. In this case the medium expands and the results can be devastating. In the case of liquid media this can cause the piping or the welding joints to burst. In the case of gaseous media the rise in pressure can even lead to explosions.



SERIES 451/851

Materials

Temperatures
from -60 °C to +400 °C

Pressures
from 0,5 bar to 70 bar

Threaded connections
from ½“ to 2“

SERIES 2400/2480

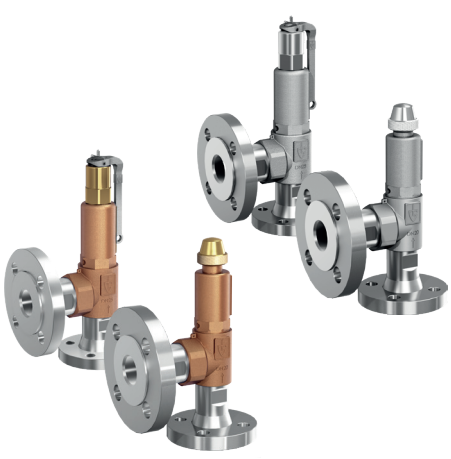
Materials

Temperatures
from -200 °C to +200 °C

Pressures
from 0,2 bar to 70 bar

Threaded connections
from ¼“ to 2“





SERIES 451FL/851FL

Materials

Temperatures
from -60 °C to +400 °C

Pressures
from 0,5 bar to 70 bar

Flange connections
from DN15 to DN50



Additional protection due to optimal flow geometry and insect protection screen

The safety valves from the 2480 series are available optionally with an insect protection screen. The amply proportioned pipe bend avoids a restriction of the nominal flow diameter. In combination with an appropriately designed insect protection screen, this combination guarantees a safe blow-off without any compromising on protection against soiling. Due to numerous specific approvals and an oil- and grease-free finish this safety valve is suitable for the most demanding applications.

EXPERT TECHNICAL ADVICE

Do you have any questions or would you like to receive technical advice?
Then please contact us directly – our team of experts will be happy to assist you!

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