

Application:

Pressure compensation device according to DIN EN 12514-2 for oil pipes according to DIN 4755 in which a thermal conditional volume expansion may occur.

Description:

Heating oil expands significantly during warming up.

If non-return check valves, such as foot valves, are installed on the tank side, heating oil will be trapped in the pipe after switching off the burner. Warming up of the heating oil to ambient temperature will lead to a pressure increase in this closed pipe section.

This pressure increase may lead to damage or malfunctions at the quick-isolating facilities, anti-siphon devices or other components and also to burner malfunctions.

The pressure compensation device “Olex” absorbs the expanding heating oil by pushing down a spring assisted piston. When the burner starts again, the piston pushes the heating oil back into the suction pipe.

The expansion is displayed by an emerging pin.

Item no.: 2107003

Technical data:

Connection: both ports female thread G $\frac{3}{8}$ for compression fittings 6, 8, 10 and 12 mm

Fluids: light heating oil on mineral oil basis, e.g. EL type of heating oil according to DIN 51603-1 or EL type of heating oil A Bio 20 according to DIN V 51603-6 (see “Heating oils”)

Material: Brass

Operating

temperature t_s : 0 °C up to 60 °C

Max. test pressure: 10 bar

Operating

pressure: For use in suction systems only

Working

pressure p_O approx. 0.3 up to approx. 1.7 bar

Working vol. V_{pO} 42 cm³

Max. compensable

pipe content: 730 cm³ with a temperature increase of 40 °C (e.g. from 0 °C to 40 °C)

For a pipe according to DIN EN 1057 this corresponds to:

Pipe dimension [mm]	Max. pipe length [m]	(incl. filter*)
Ø 6 x 1	58	(46)
Ø 8 x 1	27	(21.5)
Ø 10 x 1	15.5	(12.5)
Ø 12 x 1	10	(8)

*Heating oil filter “Oilpur” DN 10 with short filter cup (approx. 150 cm³)!

The content of other components has to be taken into account!

Tested according to EN 12514-2:

TÜV Rhineland, no.: S 470 2015 T1



Heating oils: Bio20

The pressure compensation device “Olex” can also be used for heating oils with “alternative additives” up to 20% (vegetable oils or FAME), e.g. EL type of heating oil A Bio 20 according to DIN V 51603-6.

Installation:

Installation has to be carried out by a specialist company with due consideration of the valid rules and regulations.

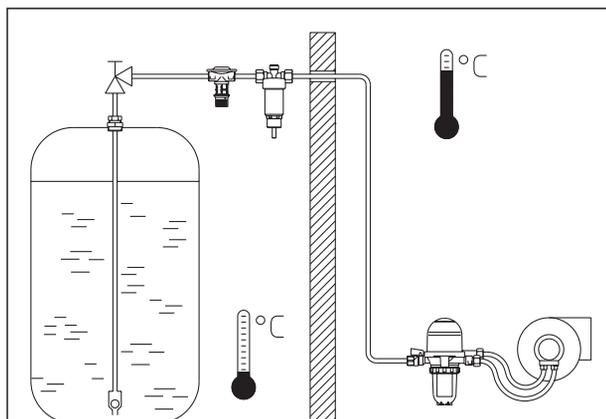
The installation position and flow direction of the pressure compensation device “Olex” are optional.

Please take care to leave enough space for the expansion indicator (pin).

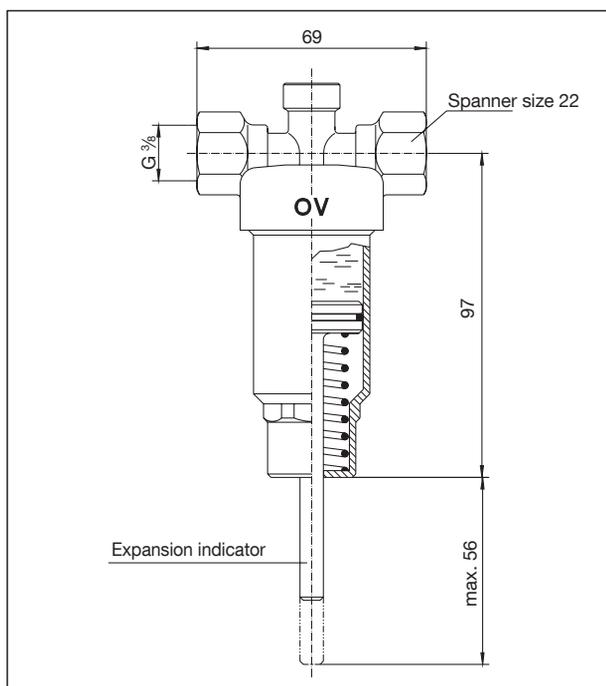
The pressure compensation device should not be installed more than 3.5 m below the max. tank filling level as otherwise only a part of the working volume will be available with a full tank. After installation check all points for leaks.



“Olex”



System illustration



Pressure compensation device

Accessories:

Compression fittings “Ofix-Oil”
for the connection of copper pipe:

Compression fittings G $\frac{3}{8}$

Connection set (2-fold)

6 mm

8 mm

10 mm

12 mm

Item no.:

2127050

2127051

2127052

2127053

Straight couplings “Ofix-Oil”, flat sealing;
steel with brass cutting ring

G $\frac{3}{8}$ x 6 mm

G $\frac{3}{8}$ x 8 mm

G $\frac{3}{8}$ x 10 mm

2083074

2083075

2083075

Brass reinforcing sleeves for copper pipes with a wall thickness
of 1 mm

6 mm

8 mm

10 mm

12 mm

2083951

2083952

1029651

1029652



Subject to technical modifications without notice.

Product range 9
ti 145-EN/10/MW
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