

AGENDA



- 1. Transformer Safety Device
- 2. Application
- 3. What Do You Expect from a Pressure Relief Device?
- 4. Benefits
- 5. Reference





I Burst plate, integrated in tap-changer cover



I Pressure Relief Device for OLTC and Transformers





APPLICATION



APPLICATION

- I Protection of power transformers and onload tap-changers (OLTC) against overpressure (tank rupture)
- I Overpressure is result of internal arcing due to faults
- I PRDs should only release at defined pressure, release oil or gas quickly and seal tightly afterwards



Secure protection of your power transformer

MESSKO SOLUTION

- Cover with inlaying micro-switches
- I Protection of springs and gaskets against external influences
- Defined stroke (4mm) up to forced activation of switching contacts
- Aluminum signal pin with notch to prevent from backslide
- KTL coated springs according to DIN 2095
- Additional inlaying gasket
- I Opening within milliseconds; re-closure time within 70ms

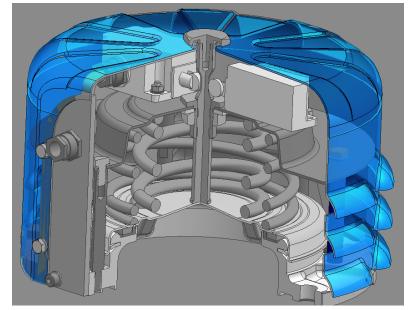


I Protection of the main parts against environmental influences

MESSKO SOLUTION:

I Protective Cover



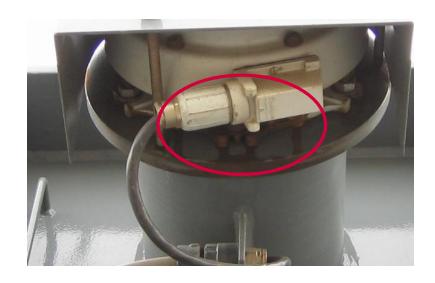


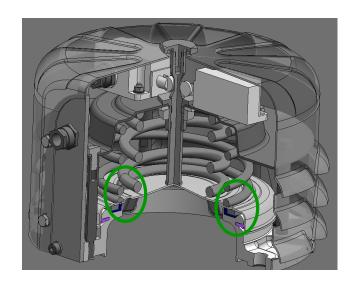


No leakage problems

MESSKO SOLUTION

I Special inlaying gasket design







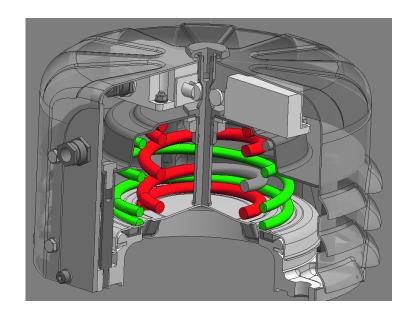
- Prevent erroneous releases and fatigue failure; Open within 2ms
- I No corrosion of the springs

MESSKO SOLUTION

Precision KTL* coated springs acc.DIN 2095

* KTL – plastic-coated customer-specific part painting







- Clear signaling
- No false tripping
- Sea-water and corrosion resistant materials
- Min. IP65 / NEMA 4X protection



MESSKO SOLUTION

- I Self-locking signal pin
- I Terminal box







- Standard protection cover with defined oil flow
- Additional protective cover with flange connections
- Protection against injuries with hot oil
- Sufficient openings for escaping oil



Different flanges

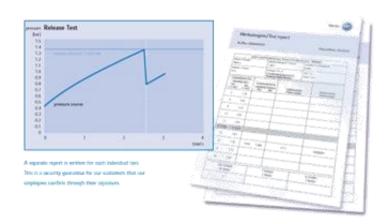




BENEFITS



- I Quick and secure release of the overpressure within milliseconds at a defined pressure
- I Directed oil/gas flow into a compartment





- I Secure function even after decades
- No leakages after pressure relief
- Individual test report

REFERENCE



ESKOM – UBEJANE MOBILE TRANSFORMER – SOUTH AFRICA





MESSKO® MPREC® PRESSURE RELIEF DEVICE





MESSKO® DOWNLOAD CENTER



Get the latest software, firmware and operating instructions for your MESSKO® products from



www.reinhausen.com/messko-downloadcenter

THE POWER BEHIND POWER.



www.reinhausen.com