



APPLICATION

Moisture holders are used to take the moisture out of the air that enters the expansion vessel when the transformer is operating. This way it hinders water condensation in the expansion vessel and operation safety of the transformer is increased.

CONSTRUCTION

Moisture holders NAK 0.15 kg

The top flange is casted aluminum and electrostatic powder painted.
Container cylinder and oil bowl is made of polycarbonate.

For Transformers with Conservator

Für Transformatoren mit Konservator

Moisture holders 0.5-1 kg Form A, B, C (DIN 42567)

The top and the bottom sections are casted aluminum and electrostatic powder painted.

The shafts are made of nickel plated steel and the sieves are made of zinc sheet.

Container cylinder is glass or polycarbonate depending on the customers' request.

Oil bowl is of polycarbonate and the bowl holder is made of CrNi material.

Moisture holders Types NAK 1.2 to 4.8 kg (DIN 42562)

All the flanges are GG-14 casting and coated with a special wet paint having high resistance to corrosion. The upper connection flange (Item-5) and its pipe are made of St 37 material.

Container cylinder and oil bowl is made of glass. The oil bowl dome can be Ms 63 brass or aluminum depending on the request.

The sieves are made of zinc sheet.

The butterfly nuts are forged CrNi material.

Moisture holders Form D

The top and the bottom sections are casted aluminum and coated with electrostatic powder paint.

The shafts are made of nickel plated steel and the sieves are made of zinc sheet.

Container cylinder is glass or polycarbonate depending on the customers' request. Container is protected with an external shield. This shield is made of CrNi and can be in the form of wire mesh or perforated steel sheet, depending on the request.

Oil bowl is of glass and the bowl holder is made of CrNi material.

In all moisture holders, rubber gaskets of hardness 65-70 shore are used.

OPERATION PRINCIPLE

When the transformer gets air in, an air flow from and to the oil bowl occurs. The oil layer in the bowl prevents the dryer material from continuous contact with the damp external air and cleans the air flowing in. If the operation temperature of the transformer decreases, the volume of the isolation oil gets smaller. During this lessening, an amount of air equal to the lessening amount is absorbed into the oil bowl through air holes. This air then transfers to the expansion vessel and contacts with the oil layer. During this transfer, air contacts with the dryer material and leaves its moisture there. With the heating of the oil in the transformer tank, the air inside flows out from the opposite direction of the moisture holder.

CAPACITIES

In the selection of the size of the moisture holders, various factors such as oil volume in the transformer, required life of the silica gel charge, operating cycle of the transformer, temperature and moisture content of the ambient air should be taken into consideration by the transformer designer. For average operating conditions, the models and recommended transformer oil capacities are given in the following table.

Type/Form	Code No.	Silicagel Capacity (kg)	Transformer Oil Capacity (Max.) (kg)
NAK 0.5 kg (DIN 42 567)	Form A	311A	0.5
	Form B	311B	
	Form C	311C	
NAK 1.0 kg (DIN 42 567)	Form A	321A	1.0
	Form B	321B	
	Form C	321C	
NAK 0.15 kg	301B	0.15	600
NAK 1.2 kg (DIN 42562)	341	1.2	4500
NAK 2.4 kg (DIN 42562)	351	2.4	9000
NAK 3.6 kg (DIN 42562)	361	3.6	13500
NAK 4.8 kg (DIN 42562)	371	4.8	18000
FORM D	341D	0.72	2600
	351D	5.0	18000
	361D	10.0	36000
	371D	25.2	90000
	381D	43.2	155000

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