

INSTALLATION, OPERATION AND MAINTENANCE GUIDE

AIR BREATHERS TV75-TV76

STORAGE AND SHELF LIFE

Handle with care. Max storage period before putting the instrument into service is 5 years (temperature -20 +40 °C – air humidity 75%) as long as the instrument is kept in its envelope and in a clean place.
However, before use, visual check that no damages happened to any parts and the condition of silica gel (if gel is partially or fully saturated please proceed with the replacement or regeneration of the same).

UNPACKING

Unpack breather from its box and pull it out from the plastic bag. Make a correct disposal of packaging according local regulations.

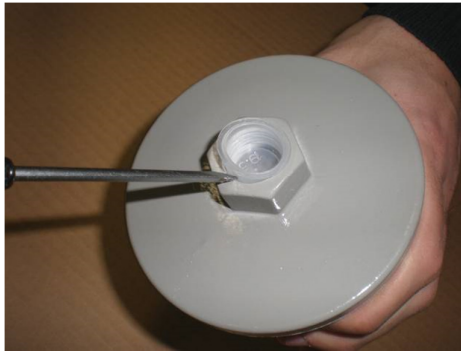
SETTING TO WORK



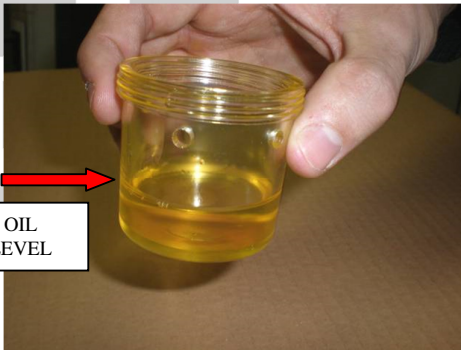
Unscrew the bottom cap



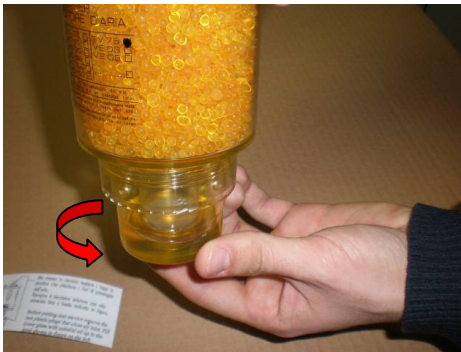
Take instructions sheet out of and read it carefully



Take out the plugs helping yourselves with a screwdriver



Fill the bottom cup with mineral oil up to the notch marked on cup



Screw in bottom cup – breather is now ready to be mounted

MOUNTING POSITION

The breather is mounted on the end of the connecting pipe coming from conservator.

REPLACEMENT OF SATURATED SILICA GEL - FILLING UP OPERATION

When silica gel is saturated it can be regenerated or disposed; in case of disposal please operate according local regulations for waste management.

Refer also to up to date version of silica gel MSDS available from our technical stuff and silica gel manufacturer.



Fill up the breather container up to around the level shown in red above (underneath threading)

SILICAGEL REGENERATION

The silicagel that absorbed humidity can be regenerated by drying it into a oven at a temperature between 130 to 140 °C until every bean changes its colour to original orange colouration.

MAINTENANCE

During transformer maintenance is a good practice to check condition of breather.

First of all clean outside surfaces and perform the following visual tests:

- Integrity of breather,
Breather should not have visible external damages gel container must be free of damages/cracks as,
- Saturation of silica gel,
Check colour of silica gel: if colour has changed from orange to white you have to change the silica gel, to do so read the paragraph above dedicated to this operation,
- Level of oil inside oil bottom cup,
Check level of oil inside the cup,
Oil level should reach approx the notch on bottom cap and in case the level is found lower than this point please refill the cup (see paragraph below).



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REFILLING OF OIL INSIDE BOTTOM OIL CAP

If there is not enough oil inside oil bottom cup operate as follows:

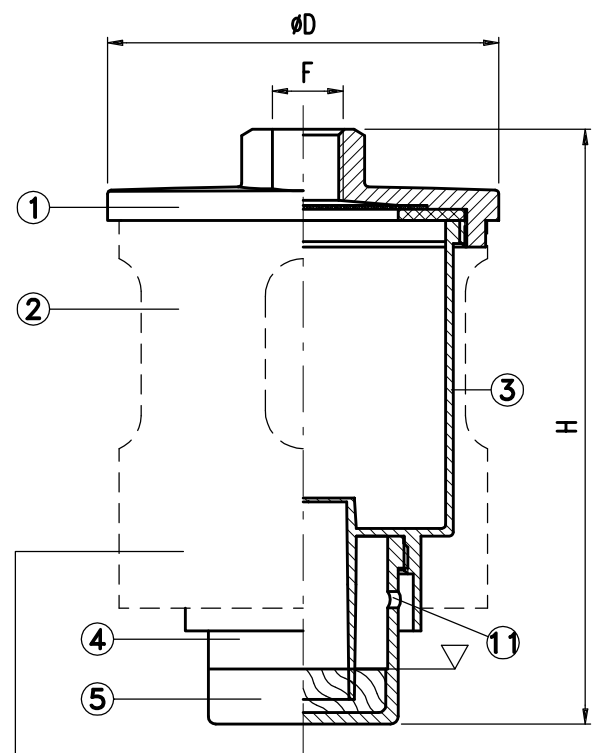
- Unscrew the bottom cup,
- Fill up the oil cup with mineral oil until the notch marked on the cap,
- Reassemble the oil cup on breather.

DISPOSAL:

Disposal of all parts shall be made according to local environmental and waste management rules.



Fig. A1
 - Tipo TV
 - Type TV

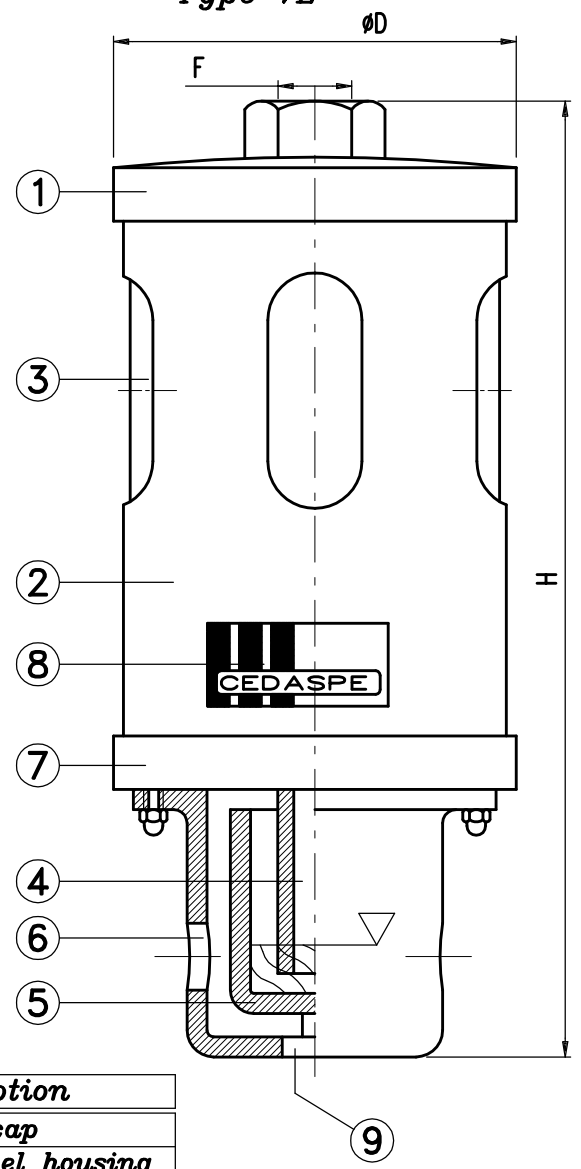


PROTEZIONE SOLO SU TV76NE
 S/S HOUSING AVALALBE ONLY ON TV76NE

▽ Livello olio
 Oil level

Fig. A1
 - Tipo VE
 - Type VE

5.40



Pos	Descrizione
1	Coperchio
2	Protezione acciaio inox
3	Contenitore trasparente di sali
4	Pescante
5	Coppa olio (trasparente)
6	Spia olio e presa d'aria
7	Coperchio inferiore
8	Targhetta d'identificazione
9	Scarico condensa
11	Presa d'aria

Pos	Description
1	Top cap
2	Stainless steel housing
3	Gel container (transparent)
4	Fishig out cylider
5	Oil cup (transparent)
6	Oil window and air intake
7	Bottom cap
8	Data plate
9	Drain hole
11	Air intake

Dim. in mm; Scala 1:2;

Tipo Type	Olio nel trasf. Transf. oil kg	Silicagel		H mm	D mm	F	NOTE:
		Q. ty Kg	Vol. dm ³				
TV75NE	700	0.25	0.35	155	105	1/2"GF	Pos. 2 Fig. A1 w/out stainless steel housing
TV76NE							Pos. 2 Fig. A1 with stainless steel housing
VE05	1500	0.50	0.65	250	140	1"G	Pos. 2 Fig. A2 with stainless steel housing
VE10	3500	1.00	1.35	245			Pos. 2 Fig. A2 with stainless steel housing



Titolo
**Dehydrating breathers for
 distribution transformers**

Data **27/09/11**
 Scala **1:2**
 Dis.
 Visto

Dis. Nr
3535