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# Technical Bulletin

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## OIL SAMPLING PROCEDURE

The transformer requires no oil maintenance. Thus, oil sampling is recommended only after unusual high electrical or thermal stress.

For each oil sample, the total oil quantity of oil which has been sampled (quantity of flushing oil + quantity of sample oil) must be carefully noted. There is **0.5 liters maximum** (per transformer) of oil available for sampling at time of delivery. Do **not** drain more oil if not advised otherwise by RITZ.

Oil sampling should only be carried out at ambient temperatures  $> +5^{\circ}\text{C}$ .

**Note:** (1) The position of the oil level indicator will show a difference at lower and upper temperature limits depending on the amount of oil taken when compared to those transformers which have not had oil samples taken.

(2) The oil sampling kit can be purchased from Ritz Instrument Transformers upon request.

(3) If any problems are encountered, contact:

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name:	Rosin 	date:	12. 3. 1997
		revised:	01. 5. 1997
		revision:	2
		ident.-no.	TB0061.DOC

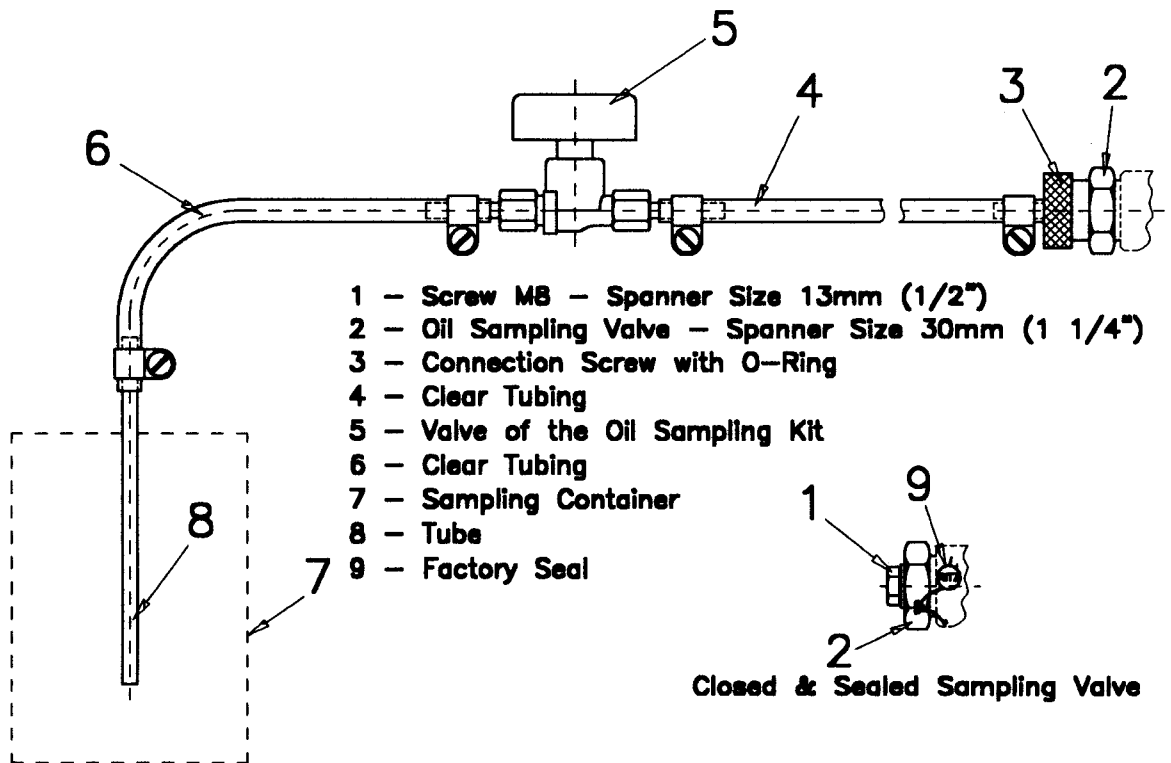
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# INSTRUMENT TRANSFORMERS

## TECHNICAL BULLETIN

### Oil Sampling Procedure

1. Unscrew and remove hexagonal bolt M8 (pos.1), spanner size 13mm from the oil sampling valve.



2. Screw in the connection screw (pos.3) and tighten hand-tight.

**CAUTION:** Steps 3 through 7 must be performed as specified. Failure to comply increases the chances of air bubbles entering the unit.

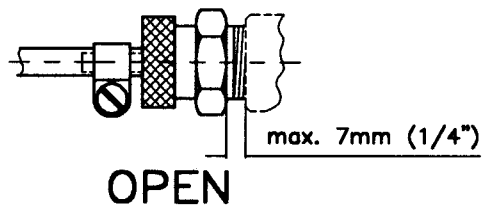
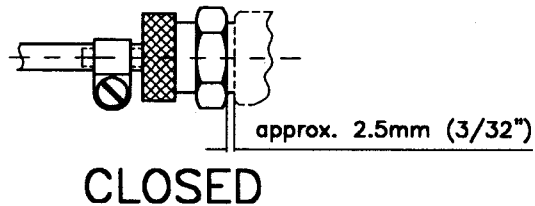
3. Adjust tap on oil sampling kit valve (pos.5) in open position (arrow must point in tube direction).
4. Slide oil collecting vessel (pos.7) over tube (pos.8).
5. Open sampling valve (pos.2) spanner size 30mm, by 2 to 3 turns, turning the oil sampling kit as well. (For first oil sampling, user must cut seal wire (pos.9) in order to open the sampling valve (pos. 2)).

# INSTRUMENT TRANSFORMERS

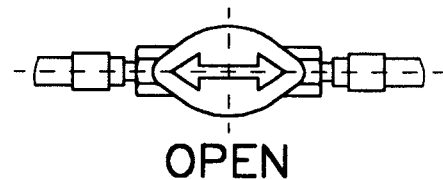
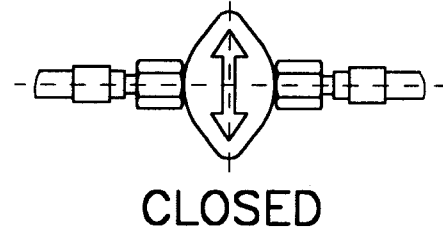
## TECHNICAL BULLETIN

- Let oil drain off until no more bubbles appear in tube (pos.4), thus rinsing the tube.
- Close tap (pos.5).

### Oil Sampling Valve



### Oil Sampling Kit Valve



- Slide oil sample glass over the tube (pos.8) and drain amount of oil required by opening the tap (pos.5).
- Upon completion of oil sampling, close tap (pos.5).
- Take record of total quantity of oil sample (rinsing and sampling).
- Close oil sampling valve (pos.2, spanner size 30mm) and tighten to 25 Nm (20 lb. •ft).
- Remove oil sampling kit.
- Screw in sealing screw (pos.1).
- Remove any spilled oil.
- After maximum 24 hours, check tightness on oil sampling valve.