



FILTRATION OF ON-LOAD TAP CHANGER OIL

Continuous cleaning of oil in tap changers result in:

- longer lifetime of tap changer components
- longer lifetime of oil
- increased reliability

resulting in savings on your maintenance budget.





WHY OFF-LINE FILTRATION

Every time switching is performed oil molecules break down and dirt and resin is produced. The higher load on the tap changer the worse the problem. The consequences are:

- dirt sticking to contact areas
- dirt rapidly wearing down gear components
- dirt acting as catalyst for further breakdown of oil

Both dirt and condensation moisture reduce the insulation capability of the oil. Hereby the safety margin for flashovers is seriously reduced and surface tension of the oil is destroyed.



Tap changer oil without and with continuous use of CJC™ Fine Filter



INSTALLATION

As the CJC™ Fine Filter is operating completely independent of the tap changer the installation is very simple.

ABB tap changers are already prepared for the installation with a drain valve and a return point on top of the tank, covered by a flange.

If no connections are prepared, simply take the oil from the drain pipe and return to the top of the tank below oil surface. Fixed piping is preferred, but flexible hoses can also be used.

The motor on the filter is available for all voltages and average consumption is:

@ 50 Hz	@60 Hz
1 x 110 V : 0,18 kW, 3,0 A	1 x 120 V : 0,18 kW, 2,5 A
1 x 230 V : 0,18 kW, 1,3 A	1 x 240 V : 0,18 kW, 1,30 A
3 x 220 - 240 V: 0,18 kW, 1,40 A	3 x 440 - 480 V: 0,18 kW, 0,80 A
3 x 380 - 420 V: 0,18 kW, 0,80 A	





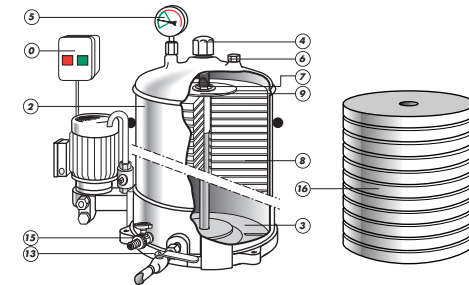
MAINTENANCE

The CJC™ Fine Filter is almost maintenance free. Operating continuously on clean oil the pump and motor requires no maintenance.

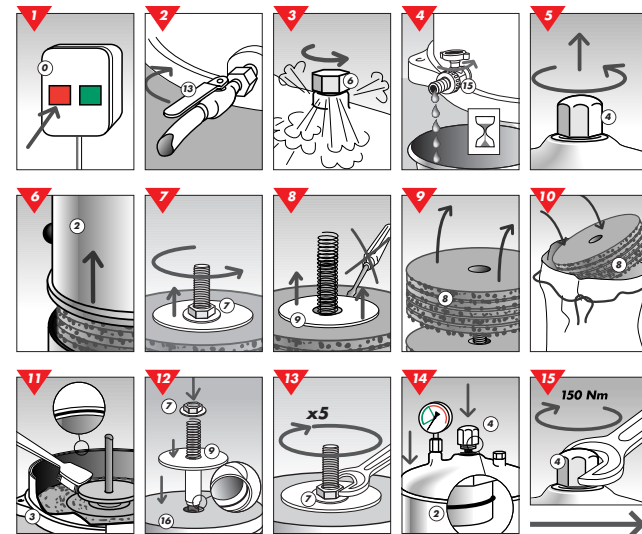
Elements are typically changed once a year at the annual inspection or when pressure switch and/or pressure gauge is indicating element change.

For absolute security the pump is provided with a relief valve opening when pressure exceeds 2.8 bar.

Element change is very simple and requires only between 15 and 30 minutes. ►



D FILTER REPLACEMENT



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