

INSTALLATION, OPERATION AND MAINTENANCE GUIDE

GAS ANALYSER

MOUNTING POSITION

The gas analyser have to be mounted in vertical position on top of relay using the revolving nut pos 4 on gas release cock. If gas collecting device RG3 is provided at human height gas analyser have to be mounted on gas release cock of gas collecting device using the the same revolving nut. Gas relase cock should remain in closed position until gas test is executed.

OPERATION

Once the gas analyse has been mounted, fill until the mark test probe 1 and 2 with proper reagent contained in bottles marked 1 & 2.

Open gas release cock and leave gas flow inside test probe 1 & 2 untill the Bucholz relay (or the gas collecting device) is full of oil again.

After the sample of the gases has been drawn, the cock should be closed again don't permit oil pass inside test probes.

Now check the precipitate inside the test tube of the gas analyser.

If gas is due only to oil decomposition, in the test tube 1 a white precipitate is formed which, exposed to the light, slowly turns brown.

Should, however, in the test tube "2" a black precipitate be formed, this means that the gases contain decomposition products of solid insulation, such as cotton, paper, wood and the like.

In such a case, a coil deficiency has taken place.

In the case the Buchholz relay operation is caused by air (first installation into work, total oil refilling, defect in the cooling system) there isn't any formation of precipitate inside the tubes.

MAINTENANCE

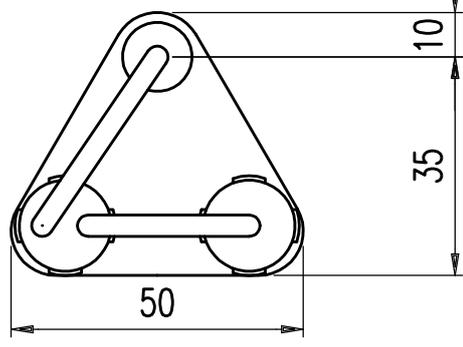
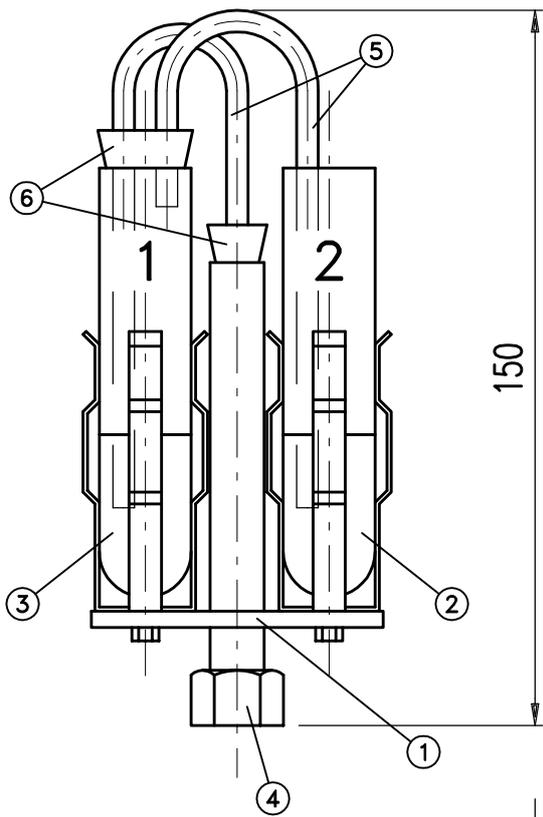
After the test is performed remove the gas analyser from relay (or gas collecting device) by unscrewing revolving nut pos 4 clean the test probes 1 & 2 and house the analyser in its container.

Reagent cannot be used again; if you need perform a new test a fresh charge of reagent have to be used inside test probes

Reagent have to be housed inside container and should not be directly exposed to sun rays or excessive temperatures.

Mounting sketch

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6	Rubber plugs
5	Glass tubes
4	Revolving nut 1/4" BSP
3	Test probe 1
2	Test probe 2
1	Support
Pos.	Description

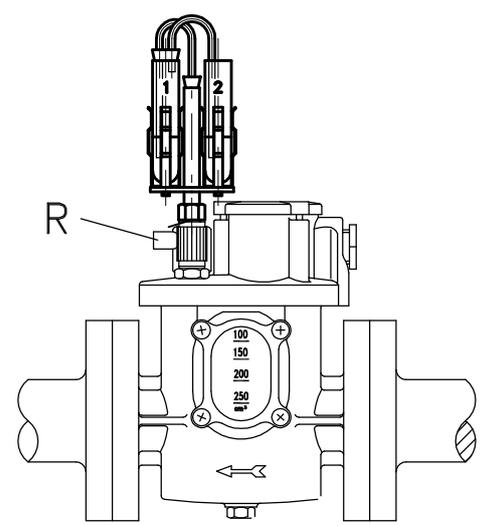


Fig. A: directly on relay

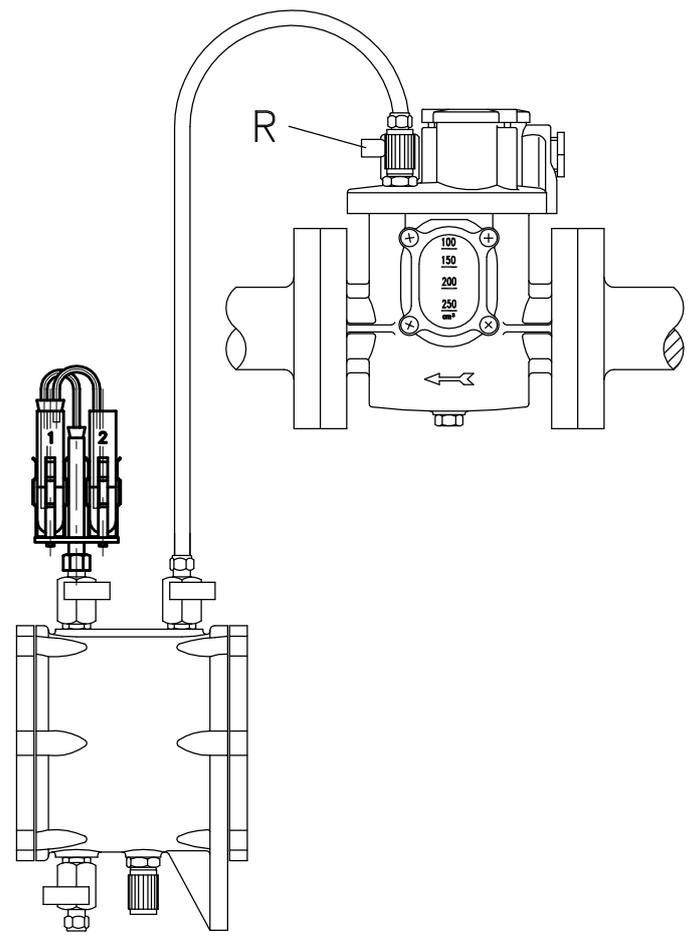


Fig. B: With RG3 apparatus