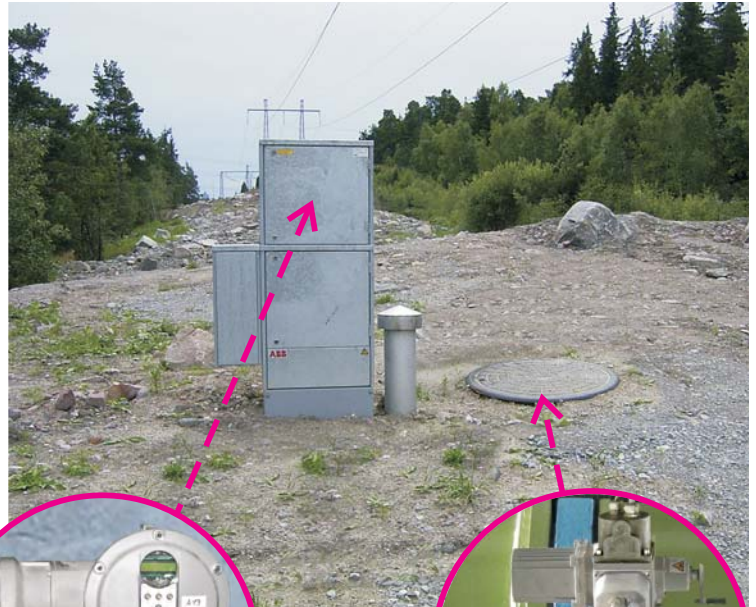


'In-Earth' Actuator for underground conduction systems

suitable for long-distance heating and cooling as well as for any subterranean conduction systems



The Situation

Many subterranean conduction systems are laid in shafts and tunnels which have to be accessible to maintenance personnel. The construction of such tunnels and shafts is a costly matter. Moreover, the cost of extending, maintaining and keeping such underground 'chambers' free from water, earth and also generally clean consumes time and money.



The Challenge

The challenge has been to develop a financially economical system, such as that of using simple concrete rings instead of constructing complex concrete shafts and tunnels which can be labour and cost intensive.

Furthermore, there is no need to maintain or clean these shafts and it is of no consequence whether they fill with sand or earth, or not.



The Solution

SIPOS 5 'In-Earth' actuators are mounted directly on to the valve in standard tunnels and shafts. The electronics unit, however, is installed in a separate cabinet located above the ground so that it remains accessible at any time.

SIPOS 5 actuators require minimum maintenance and might require servicing only every 8 years or so. Another advantage of the SIPOS actuator is the fact that it has been placed in the IP68 Protection Class and is also highly resistant to corrosion. In this way, the installation of SIPOS 5 actuators underground keeps the service and maintenance costs significantly lower than in the conventional tunnel and shaft systems.