



## SIMONSLAND, BORÅS

### FACTS

HVAC and sanitation consultants:  
Andersson & Hultmark, Gothenburg

HVAC contractors: Kungälv's Rör

Property owner, administrator/developer:  
Kanico

Contractor: Byggfast

Supplied products:

Shuntopac Dynamic shunt units, 66 pcs

NoXygen degasser, 1 pc

MAG 76, magnetite filter, 1 pc

MAG 250, magnetite filter, 1 pc

# Developing an entire urban district requires a great deal of knowledge

***When Kanico created a new district in the town of Borås, they chose TTM to supply shunt units for the HVAC systems. The area is called Simonsland and contains 60,000 m<sup>2</sup> of buildings. The first stage of 37,000 m<sup>2</sup> is complete and construction is now continuing with more commercial premises and housing.***

The HVAC installation initially caused many problems. Actuators and valves refused to work and had to be fixed under warranty, but TTM took responsibility throughout (and a little more besides), and remedied, replaced and improved problematic components.

“TTM were consistently responsive and solution-oriented, and they deserve a great deal of credit for that,” says Anders Larsson, Kanico’s service manager.

The selected shunt units were Shuntopac Dynamic, with pressure independent control valves. An ingenious solution that controls flow and temperature more carefully and effectively, but where precise, dynamic valves require clean system fluids. Contaminated fluids with particles from waste products, dirt from pipe installation or magnetite from corrosion attacks have a devastating effect on the small apertures in dynamic valves.

As well as rectifying actuators and valve inserts, TTM got to the heart of the problem and installed a NoXygen degasser with magnetite filter. Modern valves, highly efficient pumps and heat exchangers are sensitive to waste products, corrosion particles and gases that lead to functional disruptions and lower energy efficiency and cause corrosion in systems and system components.

After three months, Anders Larsson, together with Anders Meyer from TTM emptied the filter and they could confirm that the system fluid had been very dirty.

Following filtration and degassing, the Shuntopac Dynamic shunt units began working as planned and controlling the system quickly and precisely. The dynamic shunt units now enabled the right flow and temperature.

“Now I’m going to do a test,” says Larsson, explaining that he intends to run the MAG filter with a new filter cartridge for 10 days and then check it to see if the system fluid is clean and clear, or if it is still generating magnetite.

“We’ve had a really good collaboration with TTM in this project and in the future I’m always going to Nox the water – in other words to both degas and filter new systems. It really is necessary to get the system fluid clean and to make the system components work,” says Larsson.

## PRODUCT FACTS

### Shuntopac prefabricated shunt units

- Dynamic pressure-independent control valves
- The primary side is factory adjusted, giving major time savings
- Pressure class PN10 with pipe package of fully welded pressure vessel pipe
- Thermal cold/heat barrier to prevent double circulation
- Fire and corrosion-proof housing in metal
- Insulation in mineral wool for heat and AF/Armaflex AF-2 (12.5–16 mm) for cold
- All external valves equipped with measuring points for differential pressure measurement
- Wall bracket for suspension, or legs with foot plates for larger models
- CE marking according to manufacturer’s declaration 2B in the Machinery Directive
- Shuntopac shunt units are environmentally approved



*Shuntopac Dynamic shunt unit.*