



Editorial

Dear readers,

I wish you health, wealth and happiness for the year 2015.

When it comes to replacing water supply pipelines, ductile iron pipe systems are the most appropriate – both technically and for reasons of hygiene. I am reporting on projects in three different countries in which water pipelines had to be partially replaced or relocated. And their use in electrical transformer stations could mean a new area of application for ductile sewer pipes.

Have an enjoyable and stimulating read,
Sincerely yours,



Raimund Moisa



Ductile sewer pipes have a role in transformer stations

◆ Alongside the giant wind turbines which are a visible sign of the turnaround in energy policy, transformer stations are also coming more and more into focus. Their oil-cooled transformers stand in the open air in large concrete troughs which run off into separators. The pipeline and shaft systems installed for this purpose meet the very highest safety standards. Apart from any leakages, in case of damage boiling hot oil needs to be drained off. This essentially demands a diffusion-tight and non-flammable material which does not lose its properties even at high temperatures. The sealing system must be oil-resistant and the fail-safe pipes must withstand high traffic loads. For pipelines which must necessarily drain down even with the slightest slope, the 6 m long ductile iron pipe is ideal.

All these facts add up to a reason for the client “50 Hz” to use ductile sewer pipes with polymer concrete shafts. For additional security positive locking BLS® push-in joints are used. Despite tight conditions for installing the crossing pipelines, the ductile iron pipes and ductile manhole connectors were simply, quickly and securely assembled using locks and clamping rings.

Irrigation system in Bozen/South Tyrol

◆ The winegrowing area of “Guntschna – St. Georgen – Sand” in the district of Bozen got its first irrigation system way back in the year 1959. For what was then a cooperative area of 85 hectares, the main supply pipeline consisted of DN 125 steel pipes. The irrigation water came from the machine house of the St. Anton power station. In 1981 the area

to be irrigated was extended by a further 62 ha. At this stage of expansion (DN 200 steel pipes) the entire irrigation area of 147 ha was able to be supplied with water. Because of the increased water consumption and because of the poor condition of the pipeline, work was started in Autumn 2013 on replacing 1,500 m of the steel pipeline. To do

this, the nominal size had to be increased from DN 200 to DN 250. Also the new 1,500 m long DN 250 ductile iron pipeline with restrained VRS®-T push-in joints was again connected in front of the turbine of the St. Anton power station at a pressure of 63 bar.

Development of the Schweighof park in Kriens

◆ Right on the banks of Lake Lucerne in the district of Kriens, on the site of a former market garden, a new residential and commercial quarter is emerging. From 2015 around 500 to 600 rented homes and service and commercial facilities should start to be built in stages on the “Schweighof” area. By the time this is completed in 2020 around 500 million Swiss francs will have been invested for the “Schweighofpark” building project.

To begin with a drinking water transport pipeline running right across the terrain had to be relocated and replaced. Once again with this project, Kriens water supply relied on the extremely durable vonRoll ECOPUR full-protection

pipes in ductile cast iron with reinforced coating to EN 545 which have proved their worth in their drinking water supply network for years. The ECOPUR push-in pipes have an integral non-porous internal and external polyurethane coating (PUR) and can also be used in highly aggressive soils. With this electrically insulating coating system they are also resistant to galvanic corrosion caused by stray currents. The new DN 400 transport pipeline is more than 600 m long and vonRoll ECOFIT fittings with integral epoxy coating to EN 14901 and RAL - GZ 662 were also used in its construction. The entire pipeline was securely laid with the vonRoll HYDROTIGHT thrust resistant system.



Client and pipeline constructor were very happy with the fast and secure assembly of the HYDROTIGHT push-in joints and the proven full-protection pipes.

Dates for your diary

16 January 2015

Richter+Frenzel TBU Tiefbautag 2015, Nürnberg

19–20 February 2015

29th Oldenburg Pipeline Forum, Oldenburg

24–27 March 2015

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Partial replacement of the water transport pipeline in Neuwied-Oberbieber

◆ The existing DN 400 drinking water transport pipeline running through the Oberbieber area of the town of Neuwied was experiencing an increasing number of supply interruptions. To ensure the long-term secure supply to the adjacent municipalities, the Neuwied district waterworks decided to replace a 900 m long section of this pipeline in Wiesenstraße with a new ductile iron pipeline of nominal size DN 400, wall thickness class K 9, PN 25, with restrained BLS® push-in joints and cement mortar coating. The BLS® push-in joint has proved itself over decades. It is simple, fast and safe to assemble, allows for high allowable operating pressures and tractive forces and is usable universally. The new pipeline route runs for the main part



through a built-up urban area. Manual operation pits plus numerous crossings of the route were part of the work on this construction project. The replacement began in August 2014 and was completed to deadline in October 2014.

