



Editorial

Dear Readers,

In this June 2015 issue of the Newsletter I am reporting on the construction of a new local drinking water network in a district of Slovenia, the laying of a new drinking water transport pipeline in the Swiss Canton of Freiburg and also one in Germany. A further report looks at the extension of a pipeline which transports water from the Rhine to infiltration wells. Securing the supply of drinking water stood at the forefront of all these projects. And ductile iron pipe systems are the number one choice for this.

Have an enjoyable and stimulating read
Sincerely yours



Raimund Moisa



Drinking water supply for the community of Škofja Loka in Slovenia

◆ The existing water network for the district of Škofja Loka in Slovenia needed to be modernised and replaced. The construction project covered an 18,907 m long water supply network and it was financed by the European Union, the Ministry for Agriculture and the Environment of the Republic of Slovenia and the municipality of Škofja Loka. It will be implemented in several construction phases in the period from August 2013 to September 2015. The old DN 350 asbestos cement pipeline which delivered 80–90 L/s was replaced with 9,592 m of DN 400 ductile iron pipes, with 6,742 m of this using the TYTON® non-restrained push-in joint and 2,850 m using the VRS®-T restrained push-in joint. In addition around 750 different DN 400 valves were installed. This meant that the flow capacity was increased to 90–120 L/s. The other parts of the Škofja Loka project included the laying of new water pipelines with ductile iron pipes over a total length of 9,315 m in nominal sizes from DN 100 to DN 350 (7,465 m in the TYTON® version and 1,850 m in the VRS®-T version) as well as the installation of approximately 2,000 valves. The technical support offered by the pipe and fitting supplier, TRM, was very much appreciated by the companies involved in the construction work.

Security of supply with a new drinking water transport pipeline in Greyerzerland

◆ In the South of the Canton of Freiburg the regional water supply company Gruyère Energie SA (GESA) provides a total of 31 communities with drinking water. For their water supply, Gruyère Energie SA relies on vonRoll ECOPUR ductile iron pipes with integral polyurethane (PUR) coating (PUR internal and external coating to EN 15655 and EN 15189) and ECOFIT fit-

tings with epoxy coating, which have proved their worth over many years. In the tourist region of “Greyerzerland”, to the East of the small town of Bulle, a new 2,100 m long DN 400 drinking water transport pipeline was constructed in spring 2015 with vonRoll ECOPUR ductile iron pipes running from an existing pumping station in the local recreation area of Bouleyres

to the existing regional main supply pipeline in the Chéseau area. A major part of the route of the pipeline runs through cultivated land and rough woodland terrain. For this reason HYDROTIGHT restrained push-in joints were used.

Extension of the infiltration of purified Rhine water in the Hesse Ried district

◆ A total of 15 infiltration wells have been constructed at 5 locations in the plain district of Hesse Ried. Additional infiltration is provided by the Farrenwies ditch.

In order to carry the Rhine water purified in the Biebesheim waterworks to the 5 infiltration locations and the Farrenwies infiltration ditch of the "Lorscher Wald" infiltration facility, the existing long-distance pipeline is being extended southwards. For this a new DN 800 water pipeline, roughly 5.3 km long,



is being constructed. It includes a waterway crossing with a lateral drainage ditch ("Weschnitz" culvert) and a railway crossing and it also crosses a main road (pipe-jacking), industrial land belonging to third parties and the "Farrenwies" ditch. The DN 800 pipeline also includes drainage and ventilation shafts, among other things.

5,064 m of DN 800, C 25 ductile iron pipes to EN 545 with TYTON® non-restrained push-in joints and 168 m DN 800



and 48 m DN 600, K 9 pipes with BLS® restrained push-in joints were laid. All ductile iron pipes are provided with a 400 g/m² zinc aluminium coating and an epoxy finishing layer in the factory. Blast-furnace cement mortar is used as the lining. The allowable operating pressure PFA is 25 bar.

DN 500 drinking water pipeline from Mainz-Amöneburg to the Schierstein waterworks

◆ Hessenwasser GmbH & Co. KG of Groß-Gerau is constructing a DN 500 drinking water connection pipeline between Mainz-Amöneburg and the Schierstein waterworks in Wiesbaden-Schierstein which includes an existing DN 500 pipeline belonging to ESWE Versorgungs AG of Wiesbaden. The DN 500, PN 10 drinking water pipeline will be connected to the existing Stadtwerke Mainz AG DN 500 drinking water pipeline in Mainz-Amöneburg. It supplies parts of the city of Wiesbaden with drinking water from the Petersaue waterworks. The construction of a transfer chamber is planned.

After the transfer chamber, the route of the pipeline runs to the Kaiserbrücke, mainly along the L 3482 highway in the Wiesbaden-Schierstein direction. In Äppelallee it will connect up to an existing DN 500 ESWE pipeline, which

will be reclassified as a drinking water connection pipeline. In Wiesbaden-Schierstein the DN 500 ESWE pipeline will be linked via a short connection back to the existing DN 500 Hesse Water pipeline.

Construction was started in February 2015. Currently an approximately 3.4 km long section of pipeline is being laid. 2,952 m of DN 500, K 10 ductile iron pipes with BRS® friction-locking push-in joints and cement mortar coating are being used, as well as 402 m DN 500, K 10 ductile iron pipes with BLS® restrained push-in joints and cement mortar coating. In the area of the railway and KKS systems BLS® pipes with plastic locks and cement mortar coating will be installed. Construction is expected to be finished by April 2016 at the latest.

Dates for your diary

21 July 2015

7th EADIPS®/FGR® Information Day, Frankfurt am Main

17–19 September 2015

30th BWK Federal Congress, Jena

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