



Editorial

Dear readers,

In this July/August 2014 issue of the Newsletter I would like to tell you about some applications of ductile iron pipe systems. One contribution reports on a new modular bottom section for hydrants and other reports look at a new installation, a relocation and a renovation all involving ductile iron pipe systems. Plus there is a contribution which reports on the use of ductile iron pipe systems for the snow-making equipment in Sochi.

Have an enjoyable and stimulating read

Sincerely yours,



Raimund Moisa



Saving time thanks to a new philosophy for the installation of hydrant bottom sections

The first installations of the new VARIO 2.0 modular hydrant bottom sections have been met with a great deal of acceptance and enthusiasm. This is not merely due to the modular construction and the simple height adjustment mechanism but it is above all also due to the simplifications offered with the new polymer concrete base.

◆ This polymer concrete base, available as an option, opens up the possibility of positioning the VARIO 2.0 hydrant bottom section in the street and preparing it for installation. The height can be adjusted easily and quickly by just one person with the new bayonet connection between the outer casing and the telescopic pipe. The bottom section is positioned and aligned directly in the trench with the polymer concrete base. It is no longer necessary to support it on concrete slabs or wooden wedges. With the new VARIO 2.0 hydrant bottom section vonRoll hydro is embarking on a new philosophy for installation. All preliminary assembly can be done next to the trench and the work in the trench itself is limited to a minimum. This approach saves both time and costs.

New elevated tank and cast iron pipes for the Bogenbachtal group

◆ The Bogenbachtal group water supply association in the Lower Bavarian district of Straubing-Bogen is constructing the new "Hinterbuchberg" elevated tank with a capacity of 1,700 m³ in order to maintain and secure the supply of drinking water to the entire area on the Eastern edge of the market community of Mitterfels. The "Hinterbuchberg" tank will provide

the association member communities of Hunderdorf and Mitterfels with the whole of their water requirements and the other communities will receive some of their supply from here. The new elevated tank is around 480 m above sea level. The drinking water will be distributed through ductile iron pipes into the local networks. Approximately 1,200 m of ductile iron pipes

in nominal sizes from DN 80 to DN 300, cement mortar coated with BRS® restrained push-in joints, have been installed. Those in charge decided to use the robust cement mortar coating because of the difficult installation conditions (rocky hillside terrain).

Relocation on the first DN 700 long-distance water pipeline



◆ In 1911 a long-distance pipeline from Hungen-Inheiden to Frankfurt was put into operation to supply the

city of Frankfurt with drinking water. Although the old DN 700 grey cast iron pipeline is still in operation in its original condition over long stretches, at a few points it has to give way to road construction projects. This is the case in Wöllstadt, a community in the region of Hesse called Wetterau, where the B 3a is being extended as a ring road. In future the new road will be built over the pipeline and it has to make room for a bridge structure. The new section of pipeline

is around 260 m long. The operator, Oberhessische Versorgungsbetriebe AG, decided to continue to use cast iron as the basic material. They opted for DN 700, K 9 ductile cast iron pipes with cement mortar coating and the proven BLS® push-in joints. At the tie-in points, however, large thrust blocks were necessary to take up the forces from the non-restrained grey cast iron pipes with packed socket joints. It was connected up as planned in March 2014.

Renovation of the DN 700 main water pipeline in Hattersheim

◆ Over a length of around 1,350 m, the construction company UMWELTECHNIK und WASSERBAU GmbH from Frankfurt am Main, on behalf of NRM Netzdienste Rhein-Main GmbH, Frankfurt am Main, pulled DN 400 ductile

iron pipes with cement mortar coating and BLS® push-in joints into the old DN 700 cast iron pipeline using the relining technique. Six sections were used – the longest of which was 490 m with an empty pipe weight of about 50 t – for the crossing beneath the residential and industrial area of Hattersheim. Construction time was around

three months. For economic reasons, because of the shorter construction time and the consistently good results they have had so far, once again NRM decided on pipeline relining with ductile iron pipes. No major traffic or construction problems arose during the installation of the DN 400 ductile iron pipes.

Dates for your diary

18/20 September 2014

BWK Federal Congress 2014, Freiburg

29/30 September 2014

DWA Annual Conference 2014, Baden-Baden

29/30 September 2014

wat 2014, Karlsruhe

03. Dezember 2014

POLLUTEC 2014, Lyon
10 am, EADIPS®/FGR® presentation
“Ductile cast iron creates value”

Imprint

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Lots of Tyrolean knowhow for the 2014 Winter Olympics in Sochi

◆ The products of 30 Tyrolean companies were represented in Sochi. Tyrolean products and knowhow were used for conserving snow in Sochi, transporting VIP guests via a unique 90 m long special conveyor system and installing piping systems for snow-making equipment. Even before the Games, approximately 13,000 truck-loads of snow were stored on huge fields in the Olympic region of Sochi in order to be prepared for any sudden lack of snow. These stocks of snow were covered with foil. The several hundreds of thousands of

cubic metres of snow had to be conserved for a whole year and they managed to save up to 80 % of the initial volume. For the snow-making equipment, Tiroler Rohre GmbH from Hall supplied 36 km of ductile iron pipes in nominal sizes DN 80 to DN 300 with VRS®-T restrained push-in joints for operating pressures of up to PN 100. The Russian army helped with transporting the pipes from the valley up the mountain with the biggest helicopter in the world.

