




Editorial

Dear Readers,

In this September issue of the Newsletter I am reporting on the construction of new water pipelines in Belgium and Germany, one as a culvert pipeline and the other as a gravity pipeline. In addition there is a presentation of a new house connection system from Switzerland. Finally I report on the installation of ductile iron pipes for snow-making equipment in Slovenia. Have an enjoyable and stimulating read

Sincerely yours


 Raimund Moisa


HDD culvert for Grobbendonk in Belgium

In the municipality of Grobbendonk in Belgian Flanders a new 387 m long DN 600, PN 16 water pipeline has been installed as a culvert using the trenchless horizontal directional drilling technique (HDD). K 9 ductile iron pipes with cement mortar coating and BLS® restrained push-in joints were used.

◆ To enable the DN 600 ductile iron pipes to be pulled in without problem the bore hole was opened to 1,200 mm. The culvert pipeline was preassembled and laid on rollers. For each restrained push-in joint the assembly time was approximately 12 minutes. Assembly work was started on 21 April 2015. Before the pipes were pulled in, the pipeline had to be tested for pressure tightness. A 100 t drilling rig was made available for pulling in the pipes by the Verbraecken Infra company from Temse, Belgium. The pipeline was pulled through on 30 April 2015 within about seven hours. The maximum pulling force applied was 42 t. Those involved in the project expressed their satisfaction with the ductile iron pipe system.

Ulmer Alb water supply association lays a new DN 300 gravity pipeline

◆ The Ulmer Alb water supply association based in Dornstadt is one of the oldest in the region and reliably supplies around 44,000 people with drinking water. The association's network of pipelines is some 145 km long with a delivery volume of an average 7,000 m³/d. In 2014 the installation of a new penstock running from the high-level tank at Luizhausen to Himmelsweiler became necessary. As it has in the past, the association placed its trust in

ductile cast iron as the material of choice, with the tried and tested zinc-aluminium external pipe protection to EN 545. This zinc-aluminium alloy with 85 % zinc and 15 % aluminium, applied at an area-related rate of 400 g/m² and an epoxy resin finishing layer is an optimum method of protecting the outside of the pipes, which is an absolute requirement for the secure operation of a drinking water supply to Himmelsweiler for many dec-

ades to come. The planning was carried out by the engineering office Wassermüller Ulm GmbH and pipe installation was the responsibility of Schick Georg Rohrleitungsbau e. K. from Uttenweiler. Altogether approximately 3,000 m of ductile iron pipes of nominal size DN 300, PN 16 with TYTON® push-in joints were successfully installed to deadline.





House connections with "CLICK"

◆ With the new CLICK house connection, vonRoll hydro has developed a range of house connections which are simple to install, time-saving and secure and which can be assembled in the modular system without tools.

vonRoll CLICK is a bayonet type connection consisting of a completely corrosion-protected bayonet socket with a bayonet spigot end and a patented anti-twist protection device. A double O-ring, which has proved its value

Guaranteed snow on the ski-jump in Planica

◆ The ski-jump at Letalnica bratov Gorišek in Planica, Slovenia is the second largest in the world. Since its reconstruction in 2013 jumps of up to 250 m are possible. The clients are so convinced of the tech-

nical advantages and long working life of ductile iron pipe systems that they are constructing the new snow-making installation for the ski-jump with this system. The water pipeline for the snow-making equipment has a length of 300 m with nominal sizes of DN 80 to DN 125. Pressures are up to 40 bar.

The greatest difficulty for the construction firm carrying out the work was the extreme steepness of the slope constructed (as much as 60°) with a height difference of 150 m. For this reason a special hoisting system was set up for transporting the pipes. On the steep slope the fact that the installation of the ductile iron pipes with Tiroler VRS®-T push-in joints could be done quickly and without complications was particularly important. Because the push-in joints have an angular deflection the pipeline could be perfectly adjusted to the contours of the terrain without using extra fittings. And VRS®-T

over many years of use in the fittings industry, effectively seals the system.

When the tapping bridge is mounted on the pipe and tapping has been completed either with or without mains pressure, the other components can be fitted without any tools. When it comes to dismantling, the anti-twist protection is withdrawn slightly at the "PULL" marking while the fitting or valve is simultaneously turned in an anticlockwise direction as far as the stop. The fitting or valve can then be removed from the bayonet socket.

Dates for your diary

09–10 September 2015

IKT Practice Days 2015,
Gelsenkirchen

17–19 September 2015

30th BWK Federal Congress,
Jena

21–22 September 2015

DWA Annual Conference,
Berlin

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restrained push-in joints also meant that installation above ground was possible.

To date 28 world records have been set at the Letalnica bratov Gorišek ski-jumping location in Planica. The snow-making system with the ductile iron pipe system provides guaranteed snow and therefore even more guaranteed sporting highlights.

