



Editorial

Dear Readers,

Firstly I wish you health, success and happiness for 2016.

In this January 2016 issue of the Newsletter I am reporting on the installation of new drinking water pipelines to secure the supply of drinking water in Germany, Switzerland and the Czech Republic and also on a feeder pipeline for a hydro-power plant to generate electricity in South Tyrol. Nominal sizes of DN 100 to DN 1000 were used here for pressures of up to PN 40.

Have an enjoyable and stimulating read.

Sincerely yours,

Raimund Moisa



Replacement of a feeder pipeline for the St. Valentin power station

◆ The power station system around Lake Reschen in South Tyrol with its branched tunnel and pipe system collects all the waters from the tributaries in the Upper Venosta Valley. Lake Reschen acts as an intermediate central reservoir and supplies the power station with developed water. Directly beneath Lake Reschen is the Haidersee, a lake at around 1,450 m above sea level. A pumping station here takes the water through the headrace tunnel to the power station. A fracture occurred in the prestressed concrete pressure pipe in this section of the line in 2012 in the area of St. Valentin. At this point the operator, Hydros GmbH, decided to replace the pipeline. Because of the high pressure requirements and the difficult terrain in some places the client opted for robust ductile iron pipes from the TRM company with tried and tested BLS® restrained push-in joints. These BLS® joints ensure rapid installation and are reliably tight for generations. 700 m of DN 1000 ductile iron pipes with cement mortar lining and external protective zinc coating with a blue epoxy finishing layer were laid. The pipeline works with an operating pressure of 8 bars. The construction time for the first section was two months and it was ready for operation by November 2015. Additional sections of the old concrete penstock pipeline are due for renewal in 2016.

Central Hesse pipeline from Gießen to Lich

◆ A particularly challenging project for securing the supply of water to the Frankfurt region was started in July 2015 with the installation of an approximately 12.5 km long drinking water supply pipeline. The construction project which is costing around 10 million euros will make drinking water from the Vogelsberg mountains available for the

Rhine-Main conurbation. The client, a consortium consisting of Oberhessische Versorgungsbetriebe AG (OVAG) from Friedberg and Zweckverband Mittelhessische Wasserwerke (ZMW) from Gießen, chose ductile iron pipes with cement mortar coating for the connection pipeline from Gießen to Lich. 7,600 m of ductile iron pipes in DN 500, C 30 and

2,500 m in DN600, C 30 with TYTON® push-in joints as well as 2,300 m in DN 500, K 9 and 500 m in DN 600, K 9 with BLS® restrained push-in joints are to be installed. The construction work should be finished by the end of 2016.





Development of Attisholz Süd – American biotechnology company moves into the Solothurn region

◆ Cellulose Attisholz AG, the first and only cellulose manufacturer in Switzerland founded in 1881, was closed in 2008. At its former location the establishment of a new branch of the American biotechnology company Biogen will add a new chapter to Solothurn's industrial history. New industrial premises for the production of pharmaceuticals are going to be built in three construction sections on the

| 1st section | | 2nd section | | 3rd section | |
|--------------|------------|--------------|------------|--------------|------------|
| Nominal size | Length [m] | Nominal size | Length [m] | Nominal size | Length [m] |
| DN 125 | 18 | DN 125 | 24 | DN 400 | 442 |
| DN 150 | 138 | DN 200 | 540 | – | – |
| DN 200 | 264 | DN 250 | 90 | – | – |

22 hectare site. For the development of the new industrial and extinguishing water supply to the premises the authorities at Luterbach decided in favour of K 9 vonRoll ECOPUR full protection pipes with integral polyurethane (PUR) lining

and coating to EN 545. The installation of the new supply and extinguishing water pipelines is also planned in three sections. All in all 1,416 m of ECOPUR full protection pipes with the trusted vonRoll HYDROTIGHT internal fric-

tion-locking thrust resistance system will be installed for the supply pipelines. The system will be completed with vonRoll ECOFIT fittings and vonRoll shut-off valves with integral epoxy coating to GSK code RAL-GZ 662.

Dates for your diary

13–15 January 2016

InfraTech 2016,
Essen

11–12 February 2016

30th Oldenburg Pipeline Forum,
Oldenburg

14–15 March 2016

Cast Iron Pipe Systems Congress 2016,
Vienna

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New drinking water pipeline for Sedlčany

◆ Particularly in the hot summer months the small Czech town of Sedlčany had been experiencing serious problems with its drinking water supply. Until then the town was supplied with purified raw water from the River Mastník. In periods of low water neither the required quality nor continuous availability were guaranteed. A solid investment in the drinking water network was urgently needed. Therefore, with the help of financing through an EU development fund, around 32 km of DN 100 and DN 250 ductile iron pipes were installed in 2015. The pipelines connect up to the drinking water network of the town of Benešov, which is supplied with sufficient drinking water from a purification plant on the River Zelvka. Based on hydraulic calcula-



tions and because of its geographical position, the pipeline was designed with a pressure of up to PN 40; a pumping station and four water towers were included in the project. Because parts of the pipeline route run through stony ground, ductile iron pipes with a cement mortar coating and BLS® joints were selected. Bridges were used for river crossings, where pre-insulated ductile iron pipes were applied.



Sustainably superior –
ductile iron pipe systems