



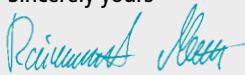
Editorial

Dear Readers,

In this April 2015 issue of the Newsletter I am reporting on the installation of pipelines in ductile cast iron for two flood protection projects. There are also reports on the partial renewal of a water transport pipeline and the construction of a fire-fighting pipeline for a new logistics centre. Versatile applications of ductile iron pipe systems!

Have an enjoyable and stimulating read

Sincerely yours



Raimund Moisa



Flood protection with ductile sewer pipes in Miltenberg am Main

◆ The old town of Miltenberg (the “Schwarz” quarter) lies directly on the left, outside bank of a 2 km long bend in the River Main. This location means that the town is at considerable risk of flooding. Therefore, since 1999, the construction of a flood protection system has been underway in a number of stages. The section currently in construction is about 1,900 m long. In the event of high water and heavy rain coinciding, the pumping station already completed should hold back the storm water on the town side of the flood defence wall. The pumping station is equipped with three powerful pumps which pump the water through a pipeline into the Main with an output of 250 l/s each. 60 m of DN 800 sewer pipes in ductile cast iron to EN 598 with TYTON® push-in joints and high-alumina cement lining has been installed. With the variations possible in the operating conditions – from a gravity pipeline to a wastewater pressure pipeline – the client decided in favour of robust ductile sewer pipes because of their high safety margin.

Relocation of a transport pipeline in Furth an der Triesting

◆ In the context of flood defence measures, in 2014 an old trans-regional transport pipeline in DN 425 grey cast iron pipes was relocated in the Lower Austrian district of Furth an der Triesting. Both the national road and the water transport pipeline were re-routed in the area of the flood-water defence at the “Kreuzbauer” dam. The old cast iron pipeline was covered over to a height of 6 m in the “Kreuzbauer” area for the erection

of the dam. For the new water transport pipeline to be installed, 780 m of DN 500, PN 16 ductile iron pipes with restrained BLS®/VRS®-T push-in joints were used. The ductile iron pipes are provided with a cement mortar coating and a cement mortar lining in the factory. Varying groundwater levels and a stream crossing were challenges which were easily met with the ductile iron pipes selected. Because of the simple and fast instal-

lation of pipes and fittings with BLS®/ VRS®-T push-in joints, the construction deadline could be kept short. And the excellent cooperation of the individual communities along the River Triesting in the Triestingtal and Südbahn district water supply association meant that the project could be brought to a successful conclusion.

Renewal of the water transport pipeline in the Neuwied district of Block



◆ The management of the Neuwied district waterworks made the decision to replace part of the existing DN 400 water transport pipeline with a new drinking water pipeline. The new section runs through the Neuwied district of Block (Krasnaerstraße) and also through the neighbouring

industrial zone (Breslauer Straße). In total 1,125 m of DN 400, K 9, PFA 25 bar (operating pressure) ductile iron pipes were installed with restrained BLS® push-in joints and cement mortar coating. The cement mortar coating to EN 15542 prevents aggressive media from attacking

the metal of the pipes and also withstands mechanical stresses during transport and installation. The soil excavated, with grain sizes of up to 63 mm (individual elements up to max. 100 mm) was able to be used for backfilling. This avoided the costly transport of excavation and bedding material.

The new pipeline crosses under Rostocker Straße in a DN 700 steel casing pipe. Construction work was started in Summer 2014 and was completed on schedule in October 2014.

Fire-fighting pipeline for a new Lidl logistics centre in Sévaz

◆ In the district of Sévaz on Lake Neuchâtel in Western Switzerland the major retailer Lidl is building its second large logistics and distribution centre in Switzerland. An important element of its infrastructure

is a roughly 2,000 m long fire extinguishing network, which was completed at the beginning of 2015.

For the construction of the new fire-fighting pipeline, which is designed as a ring main, approximately 1,500 m of vonRoll ECOPUR DN 200 and about 500 m of DN 80, PFA 16 bar ductile iron pipes in wall thickness class K 9 were installed. The ECOPUR pipes are protected externally with a highly resistant polyurethane coating to EN 15189, which is classified as a reinforced coating according to EN 545. In addition numerous vonRoll ECOFIT fittings and VS5000 full-protection gate valves with integral epoxy coating to EN 14901 and RAL - GZ 662 were used.

All elements in the pipeline are protected with the proven friction locking vonRoll HYDRO-TIGHT restrained thrust resistance system.



For access to the extinguishing water, every 90 m there are powerful surface hydrants of the vonRoll HYCLASSIC type in combination with the new VARIO 2.0 lower hydrant section. With this fire-fighting system, which is constantly filled with water under pressure, effective action can be taken quickly and at the right place to extinguish any fire immediately.

Dates for your diary

23–24 April 2015

figawa/rbv Annual Conference 2015, Stuttgart

09–10 June 2015

12th Sewer Construction Conference, Kassel

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