



Editorial

Dear readers,

In this July and August 2013 issue of the Newsletter I am reporting on a new UNESCO World Heritage Site with 300 year old cast iron pipes.

There is also a report on the replacement of a high pressure water supply pipeline, the relocation of a drinking water transport line and the construction of a new fire-extinguishing water pipeline – ductile iron pipe systems for every occasion!

Have an enjoyable and stimulating read,

Sincerely yours,



Raimund Moisa



300 year old cast iron pipes in UNESCO World Heritage Site!

On Sunday 23 June 2013 the media reported that Bergpark Wilhelmshöhe, a mountain park in Kassel, with its statue of Hercules and water features was proclaimed a World Heritage Site by the UNESCO jury. This recognition includes the Riesenschloss (an octagonal building constructed in 1701) with the 8 m high statue of Hercules (completed in 1717) and the cascades.

◆ After an enquiry by the Museum of Kassel to the board of Frontinus, Prof. Dr. Harald Roscher examined the iron pipes still in operation in the Octagon. His findings: "The cast iron pipes found in the Octagon almost certainly originate from the time when the building came into being. These are socket pipes approximately 2 m long which are approximately 300 years old." As we were to learn from the German National Committee of the International Council on Monuments and Sites (ICOMOS), which provides expert advice on the work of the World Heritage Committee, the authenticity of the technique is an essential criterion for a positive recommendation.

Replacement of the Eislingen–Hohenstaufen high pressure line

◆ Since 2012 the Eislingen association of water supply groups has been replacing the high pressure pipeline between the Eislingen pumping station and Hohenstaufen. Commissioned in 1910, this DN 90 steel pressure line with a delivery pressure of 42 bars was increasingly presenting problems and so, over the coming years, it is to be replaced over a length of 5,000 m in 100 m to 1,500 m

long sections. A new 1,800 m long section has already been put into operation in 2012. DN 100 ductile iron pipes, wall thickness class K 9, with BLS® restrained push-in joints and cement mortar coating are being used for the replacement. The new pipeline is designed for nominal pressure rating PN 64. In this section the down pipe from the elevated reservoir to Eislingen has also been incorporated in

the pipe trench, parallel to the new pressure pipeline over a length of 700 m. The high internal and external loading capacity of ductile iron pipes with their safe and proven external cement mortar coating protection together with the flexible push-in joints have convinced the client.

Relocation of the DN 350 drinking water transport pipeline in the zone affected by the RBS railway line in Biberist



◆ The Swiss regional transport company RBS operates three narrow-gauge direct-current railway lines in the cantons of Bern and Solothurn. The municipality of Biberist is opening up a new development area in the direct vicinity of the RBS railway station. This was the trigger for

the relocation of an existing DN 350 ductile iron drinking water transport pipeline from the 1970s.

In order to avoid any hazard to the new 400 m long transport pipeline caused by stray currents in the zone affected by the RBS direct-current railway, demanding requirements have been set for the pipe material. The ductile iron pipes and their restrained push-in joints must be designed to be electrically insulating.

The full protection vonRoll-ecopur DN 350 iron pipes, class C 40, K 9 to EN 545 with organic internal and external polyurethane coating meet the requirements perfectly. The

integral polyurethane coating to EN 15655 and EN 15189 and the vonRoll *hydrotight* restrained push-in joints have an electrically insulating effect and protect the ductile iron pipe from any electrochemical effects in the area of the railway track.

In the course of the relocation, there was also to be a crossing beneath the rails. This was done over a length of 18 m by means of DN 600 steel pipe jacking. The DN 350 vonRoll-ecopur pipes were fed through using sliding skids.

Ductile iron pipe systems indispensable for fire protection in tunnels

Relief for a congested urban area – the Merano northwest bypass

◆ For a number of decades ductile iron pipes have proved to be reliable for fire-extinguishing water pipelines.

When selecting materials, clients usually opt for ductile iron pipes because of the high safety margins and the loading capacity of the restrained joint technique at high internal pressure loadings and possible pressure surges. Ductile iron pipe systems are asked for again and again whenever there is a need for functionally reliable fire-extinguishing water pipelines which must themselves withstand fire.

With the largely underground Merano northwest bypass, the South Tyrol state government has embarked on the project of the century, which will considerably relieve the inner-city traffic situation and therefore also has an environmental relevance.

The green light was given for this ambitious venture a good two years ago. Part of the bypass runs through the Küchelberg tunnel which has been driven through the rock of the mountain of the same



name. Here there are 2,200 m of DN 200 ductile iron pipes with PUR coating in a service gallery under the roadway, which also houses all other infrastructures. The work is in full swing; a major part of the fire-extinguishing water pipeline has already been completed under the leadership of the Atzwanger AG company from Bolzano.

Dates for your diary

19–21 September 2013

BWK Conference,
Stralsund

23–24 September 2013

DWA Conference 2013,
Berlin

30 September–01 October 2013

wat 2013,
Nürnberg

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