



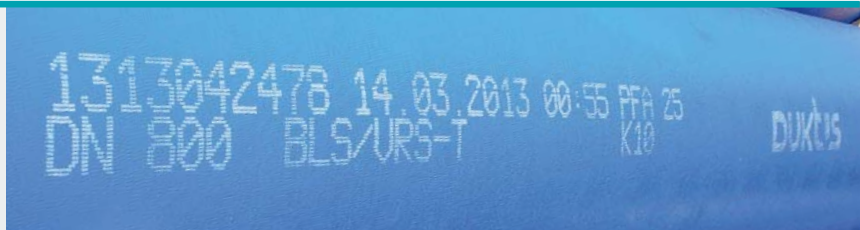
### Editorial

Dear readers,

In this March 2013 issue of the Newsletter, I would like to tell you about the marking of ductile iron pipes under EADIPS®/FGR® standard 75, which supplements EN 545. You can also read my reports on projects involving ductile iron pipes where pipelines have been replaced to ensure security of supply; some of these pipelines are of restrained pipes. A final report is concerned with the drainage of a special bridge for railway tracks.

Have an enjoyable and stimulating read,  
Sincerely yours,

Raimund Moisa



## Marking of ductile iron pipes with restrained push-in joints under EADIPS®/FGR® 75

Since 01.01.2013, the European manufacturers of ductile iron pipes with restrained push-in joints, who are organised under the EADIPS®/FGR® have been marking their products according to the requirements laid down in the EADIPS®/FGR® 75 Association standard.

◆ Ductile iron pipes with restrained flexible push-in joints are now given a factory marking showing the allowable operating pressure (PFA). The EADIPS®/FGR® 75 Association standard supplements the marking rules laid down in EN 545 by requiring the performance of a restrained flexible push-in joint to be specified by stating its allowable operating pressure (PFA). For the same allowable operating pressure (PFA), restrained flexible push-in joints need the pipes to be of a greater wall thickness than non-restrained pipes. The supplementary marking of the PFA tells the user of ductile iron pipes with restrained flexible push-in joints how high a load these pipes can be subjected to.

## Burgdorf's water supply utility – replacement of a drinking water transporting pipeline on the cycle path route

◆ Between Hasle near Burgdorf and Lützelflüh, the canton of Berne is expanding its cycle network. The supply utility Vennersmühle Wasserversorgung (VWV) has decided to replace the existing drinking water transporting pipeline on the new cycle path route. From autumn 2012 to summer 2013, 1,680 m of vonRollecopur DN 400, K 9,

ductile iron pipes are being installed in the first section of the installation work; another 1,550 m will follow from summer 2013 onwards in the second section of the work. The vonRollecopur fully protected pipes are fitted with the external vonRollhydrotight thrust resistance system. The new transporting pipeline follows the trench of the cycle



path. The ductile iron pipes and the vonRollhydrotight push-in joint system mean simple, time-saving and safe installation.



## From the springs down into the valley – Dorf Tirol in South Tyrol is replacing drinking water pipelines



◆ Five drinking water springs supply the village of Dorf Tirol, a favourite tourist resort, in South Tyrol and also parts of the town of Meran. The total yield of water from the springs is some 36 litres a second and a pipeline more than 100 years old was unable to cope with

it. The preparatory work for the route began in July 2012 at an altitude of 1,700 m near the Bockerhütte mountain hut. The consulting engineers Baubüro Ingenieurgemeinschaft of Bozen decided that only restrained ductile iron pipes would be used for this very difficult project.

The spring water is very soft so all the ductile iron pipes were supplied with a lining of high-alumina cement – a plus point as far as a long operating life is concerned. In areas where the excavated material was re-used to backfill the trench, ductile iron pipes with a cement mortar coating were installed, which is an advantage particularly in

rocky terrain. A helicopter was sometimes needed as a means of transport to get the installation equipment, pipes and accessories to the site. Bridges to take the pipeline were constructed in many areas where it crossed gulleys or streams. Its total length from the springs to the Tiroler Kreuz reservoir is 9,000 m. Ductile iron pipes of the DN 150 and DN 200 nominal sizes were supplied. To ensure that Dorf Tirol always had security of supply, a number of bypass pipelines were laid during the work. The scheduled installation time of 21 weeks was met in spite of all the difficulties.

## Drainage of a retained cut on the island of Rügen

◆ The construction of the feeder road to the island of Rügen and the crossing of the Strelasund by the new Rügen bridge was part of the

biggest traffic project of the past few years in Mecklenburg-Vorpommern. Following this, construction has now continued with the 20.5 km long island section of the B 96n federal highway. As well as numerous bridges and a noise barrier, a retained cut is being constructed between the villages of Altefähr and Samtens and the railway tracks are being run over this.

The cut is drained by two strings of DN 400 ductile iron sewer pipes with TYTON® push-in joints to EN 598. These main drainage pipelines cross the road and are situated within the steel reinforcement and the soil and before the concrete was poured they had to be secured against floating up in the wet concrete. The easy assembly of the push-in joints and the flexible connections were helpful in this process. The ductile iron pipes were not sensitive to the vibrations generated by the needles



of the concrete vibrators. The completion of the new B 96n on the island will concentrate the volume of traffic on Rügen (an average of 22,000 vehicles a day), and will make things easier for the lorry traffic from the port of Mukran and reduce the tailbacks in the holiday season significantly.

### Dates for your diary

**23–26 April 2013**

WASSER BERLIN INTERNATIONAL 2013, Berlin

**24 April 2013**

8<sup>th</sup> International Pipeline Symposium 2013, held as part of WASSER BERLIN INTERNATIONAL 2013, Berlin

**18–19 June 2013**

10. Kanalbautage (10<sup>th</sup> Sewer Installation Day), Bad Soden

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