



Editorial

Dear readers,

In this November/December 2012 issue, I shall be telling you about a variety of applications of ductile iron pipe systems. These applications feature ductile iron pipes, fittings and valves of different nominal sizes, pressure ratings and wall-thickness classes with various restrained push-in joints.

Ductile iron pipe systems meet sustainability requirements under environmental, economic and technical criteria.

Have an enjoyable and stimulating read,

Sincerely yours,

Raimund Moisa



Pipelines for transporting water in the “Sonnenberg” and “Reussport” autobahn tunnels in the town of Lucerne

This project covers firstly the laying of pipelines for transporting water through the new services ducts and secondly the upgrading of the tunnel systems to have pipelines to hydrants run via the vertical shafts.

◆ Around 2,200 m of DN 300 and DN 500 vonRollecopur ductile iron pipes have been laid in the services ducts as transporting pipelines and some 250 m of DN 125 pipes have been laid there as hydrant pipelines, both sets of pipes being of wall-thickness class K 9. vonRollecopur fully protected ductile iron pipes with a reinforced coating to EN 545 and have integral internal and external polyurethane coatings. This ensures that they have optimum corrosion protection. They have long-term resistance to the damp and corrosive climatic conditions in tunnels and to any kind of galvanic corrosion caused by stray currents, the formation of macro-cells, etc. and are therefore tailor-made for use as suspended “unburied” pipelines in tunnels and ducts. The pipes can be restrained with the tried and tested vonRollhydrotight thrust resistance system. To complete the system there are vonRollecocofit fittings with an integral epoxy coating to EN 14901 and RAL GZ 662.

Ductile iron pipes for a new water pipeline in Rosenheim

◆ Stadtwerke Rosenheim, the municipal supply utility of the town of Rosenheim in Upper Bavaria, has completed the second stage of the “Kaltwies development” laying operation. As well as a new water pipeline, the project also includes district heating pipelines. Laying began in July 2012 and operations were completed as early as autumn

2012. Stadtwerke Rosenheim preferred to have ductile iron pipes used for \geq DN 200 drinking water pipelines. On Happinger Straße, 400 m of the old DN 500 grey cast iron main supply pipeline laid in 1950 has been replaced by DN 300 ductile iron pipes of the “Duktus Zinc-Plus” type with BRS® restrained push-in joints. The pipes are lined

with cement mortar to EN 545 and have external protection in the form of a zinc-aluminium coating and a finishing layer. The operating pressure of the new pipeline is 6 bars.

New tram line to Magdeburg's Reform district



◆ In the town of Magdeburg in the German state of Saxony-Anhalt, more than 20 million Euros are being invested in a new north-south transport link. The new 3.7 km long tram line connects the Bördepark, one of the biggest shopping centres in the south

of Magdeburg, to the town's Reform district. For the laying of this new tram line, some existing supply pipelines have already had to be relaid, such as part of a DN 1000 drinking water pipeline of reinforced concrete. This 54 m long section has been replaced by

DN 1000 ductile iron pipes with restrained BLS® joints. In the area close to the rails, the ductile iron pipes have been installed in a protective casing tube. The cramped conditions in the pipeline trench made it more difficult for the fittings to be installed.

Some of the pipes were cut to length on site and the welded bead was re-applied with a guide for welding and manual welding equipment. The pipe supplier's technical support division assisted the site personnel with this. Finally, the replaced section was connected into the existing reinforced concrete pipeline.

Terminal 3 at Frankfurt am Main airport – Laying of new supply pipelines for drinking and non-drinking water

For operations at the new Terminal 3, 75 aircraft parking positions are being created (50 adjacent to buildings and another 25 out on the apron) and the associated taxiways built.



source: Fraport AG

Dates for your diary

07–08 February 2013

27. Oldenburger Rohrleitungsforum (27th Oldenburg Pipeline Symposium), Oldenburg

23–26 April 2013

WASSER BERLIN INTERNATIONAL 2013, Berlin

18–19 June 2013

10. Kanalbautage (10th Sewer Installation Day), Bad Soden

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◆ As part of the setting up of ramps 2 and 3, not only is the technical infrastructure (data and communication cables, fuel pipelines, electricity, drainage facilities, etc.) being installed, there are also 15 apron positions adjacent to buildings that are being supplied with fire-extinguishing water. Each apron position adjacent to a building is fitted with a DN 150 above-ground hydrant for supplying the water at a rate of 384 m³/h. A DN 300 ring main for fire-extinguishing and other non-drinking water and a parallel DN 150 ring main for drinking water have been laid around

each of the planned buildings. A total of around 3,000 m of ductile iron pipes with the tried and tested BRS® push-in joint (with a TYTON SIT PLUS® gasket) have been installed under the Fraport installation regulations (Fraport AG is the airport operator).

The plans already allow for any sections of the airport to be built in future, i.e. for the setting up of further ramps, and provision has been made for suitable connections and gate-valve-equipped intersections.

