Wey en vogue, research contribution and black gold

That’s the Wey.
Editorial

SISTAG AG NEWS
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Dear Customers and Partners,

Celebrating belongs to the past

And this, in fact, in the true sense of the word. First of all I would like to look back on our anniversary of «SISTAG 50 Years» which was held last September. I would like to thank you very much for the huge interest in our company. I hope that you as a partner, representative, customer, supplier or friend of the house could learn more about us and enjoy our hospitality. The whole SISTAG-team is proud of what has been achieved and of the numerous signs of appreciation received during the anniversary. You will find pictures of the event within this edition of «Wey News».

After such an anniversary it is clear that everyone is full of energy and motivation to approach the next 50 years and to concentrate on the business. So at the end of last year we set an optimistic budget for 2015 together with our partners all around the world. However- «easy come, easy go»! After the decision by the Swiss National Bank to abolish the EURO minimum rate in mid-January, celebrating definitely belonged to the past and the budget was a waste.

The valves industry does not belong to the high-priced industry at all and as a Swiss company with an export share of two thirds we are used to strong foreign competition. However this decision by the Swiss National Bank was not just a shock – it has also thrown us back severely overnight.

As you know and trust us, we are looking for solutions and will act according to our Corporate Identity: reliable, sustainable and focused on quality. We have not fallen for dumping prices, nevertheless we had to adopt immediate measures to prevent a drop in sa-
les. Everyone at SISTAG is highly sensitized. We work hard internally to implement gradual measures for achieving further efficiency increase in order to be a good partner for the future and offer new solutions.

We are happy to present two uncommon applications with Wey products in this edition of «Wey News»: a test facility for debris at the ETH Zürich and the coal-fired power plant at the municipal utility Erlangen where our valves provide safety.

We are not retreating into our shells and we are happy to welcome you shortly at our stand at the Achema in Frankfurt or to any other fair (fair overview in this magazine). Let us present you the Wey product range there. By the way: our Wey valves in cast- and ductile iron quality are in future coming in our corporate colours, in black with red 4-post topworks! We hope that this quality- and recognition sign will delight you.

Celebrating belongs to the past – we do know our challenges.

Are you looking for solutions? You know: That’s the Wey.

Kind regards,

Hans-Jörg Sidler
ETH Zurich with major R&D investment
Wey for the new hydrology research center

The new research institute for hydraulic engineering, hydrology and glaciology (VAW) has been constructed on the campus Hönggerberg at the ETH Zürich, Switzerland. Due to that new construction, the VAW now has an advanced experimental hall for hydraulic engineering which is primarily used for basic research and science. The big, two-storied hall of 1,540 m² is the core element. The experimental hall has a basement for the water used for the feed and back flow pipe of the model operations. To transport the water from the installation floor to the experimental hall, the hall floor has been made of mobile concrete slabs which allow a customizable usage of the experimental site. At the northern transverse side of the experimental hall are several infrastructure facilities for the water circulation (pumps, pumping pits and elevated tanks for clear and return flow water circulation).
In that part, a large number of Wey knife gate valves VN are used. Located in the northern part are working areas, technical benches and a limited number of office desks for scientists and engineers.

The experimental hall contains two large, separated water circulation systems which provide water for the model operations. It is differentiated between clear water- and a return flow water circulation. The total water flow of clear water is 1.300 l/s, with return flow water it is 300 l/s. As in a natural riverbed, the debris consists of diverse composition, each river engineering model requires its own debris mixture of gravel and sand fractions. Concrete gravel and mortar sand are used as raw material and contain all particle sizes between 0–21 mm. The raw material is stored in six large silos.

**KEY FIGURES**

- Hall space: 1.540 m²
- Useable height: 7 m
- Max. pressure: 20 m Water column (2bar)
- Wey products: VNA & VNC in stainless steel, DN 80–500

**Applications:**
- clear and return flow water circulation
- pump chamber
- water

Authors: Dipl.-Ing. Adriano Lais and Prof. Dr. Robert Boes.
Wey knife gate valves guarantee absolute leak tightness in both flow directions. They are suitable for various media streams and have therefore been used worldwide for more than 50 years in many different sectors, for example in coal-fired power stations in India, Italy, England, Ireland, Poland, Romania, Serbia, Thailand, Mexico, Austria and Germany. Since 1983, the Wey model MF has been in use in the periphery of the coal boiler (coal mill, storage container, conveying pipe) at the thermal power station of the Erlanger Stadtwerke. Erlangen is located approximately 20 km north of Nürnberg, Germany.
The coal boiler serves to generate district heating and electricity for the city of Erlangen. It is located in the town centre and has a thermal capacity of 88.5 MW. In a highly efficient process, the steam generation during the heating period between October and May amounts up to 100 tons per hour, with a maximum pressure of 77.5 bar and a hot steam temperature of 520°C. Although coal is still of great importance, nowadays a large part of the district heating is generated by modern combined-cycle gas turbine plants based on natural gas.

The heat- and electricity generating process normally proceeds as follows: in two mills the raw coal is pre-dried by hot air and ground to coal dust with grain diameters in micro range. The coal mills each have a grinding capacity of 6 tons of coals per hour. The transport of the coal dust from the coal mills to the coal vessel is made through conveyor lines on two different levels, each coal mill feeds one level. In four corner distillers, the coal dust-air mixture is blown into the combustion chamber of the vessel and burnt there. One coal mill can transport up to 60% of the vessel load. A centrifugal force classifier ensures that the coal dust of too large grain diameters does not reach the coal vessel and is transported back into the coal mill.

Wey valves are at the intersection between the coal mills and the coal vessel. In case of a failure or disruption in one of the mills, the valves shut off to stop the coal dust transport to
the coal vessel. This prevents a reignition of the combustion chamber to the mill, which in the worst case can cause a devastating explosion. The reliable closure of the valves also allows an undisturbed performance, besides maintenance or repair work.

Wey knife gate valves have been well established for more than one generation at the Erlanger coal-fired power station, due to the fact that they can be perfectly adjusted technically to their duty and environment. Thanks to the information exchange with our client, we can achieve high service life. In case of a failure or planned revision, the valves shut reliably. Andreas Bäuerle, technical manager at the coal-fired power station says: «We have very good experiences using these valves. They guarantee reliability and they are almost maintenance-free».
Our latest model, the Wey knife gate valve VM has already been adapted to our vibrant black-red appearance. Now the time has come for our MF to appear according to our new Corporate Identity.

From July 1\textsuperscript{st}, 2015 the Wey knife gate valve MF comes in this new look and is going to be recognised as a Wey product in the future, in line with the VN and the VM. As a matter of course, our planning team will make every effort to avoid mixed deliveries. It can, however, not be fully ruled out that in one delivery both colour variations can be found. Nevertheless, where you can see a Wey sign, you will find Wey inside, absolutely colour-independent. 

\textbf{That's the Wey.}
SISTAG in Frankfurt
Achema 2015, June 15 – June 19

In June, SISTAG is participating at the Achema in Frankfurt, one of the most important fairs for the process industry. We are delighted to present a small part of our wide and varied product range, such as our elegant option Cutter-Pack Weyotine or the Vacuum-Pack. We also present the less known speciality valves, for example the fast-closing isolation valve SpeedWey HSI, the Double Block & Bleed or high precision regulation valves. Our well-known products MG and MH are also on display.

Come and visit us to find out more or share news about the industry or your area in a friendly atmosphere.

MEETING POINT
Monday – Thursday 9 am – 6 pm, Friday 9 am – 4 pm, in hall 8.0, at the stand D64.
Our team is looking forward to welcoming you.
Anniversary «SISTAG 50 Years»
A look back

OPEN DOORS DAY
CUSTOMER- AND ANNIVERSARY EVENT
2015 trade show plans
Where to visit us

**16 to 19 June 2015**
Bern / Switzerland
You can find us in hall 3.2, stand D18.
Swiss Exhibition for civil services and public administration.

**15 to 19 June 2015**
Frankfurt am Main / Germany
You can find us in hall 8.0, stand D64.
Leading show for the process industry.

**26 to 30 Sept. 2015**
Chicago / USA
You can find us at stand 3088.
Trade fair for water, sewage, refuse and raw materials management.