

AVR

interlink

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Editorial

Dear reader

A new and exciting year has begun, and we face many challenges.

Winter has been long and extremely cold. In our degree of latitude, the surface has been covered with snow from the middle of December to the beginning of March. However, it is amazing which influence a climate conference can have on the climate. Immediately after the COP15 in December, temperatures dropped to the lowest degrees Celsius that we have had for many years.

Many supply networks have had to call off maintenance of distribution systems in this freezing period. Hopefully, the level of activity will increase in the coming months when all the supply networks lagging behind have to catch up with everything that was left undone.

2010 is a special year for AVK. On the 4th June, our owner, Niels Aage Kjær, is going to celebrate his 40th anniversary with a reception and a company party. You can read more about this on the following page.

Spring has come for sure – the lapwing has arrived and the lark is singing. In Denmark these are sure signs of spring. Enjoy the magazine.

Michael Ramlau-Hansen



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Front page photo: SA Water: Repair of a main water pipeline in South Australia - provided by courtesy of SA Water.

Do you know anyone who would benefit from receiving interlink or do you need more copies? Please send an e-mail to: adl@avk.dk

Do you have an article you would like to share with the rest of the AVK world, i.e. installation of new products, installation in new places, repair of pipelines or an exhibition in your country - please send an e-mail to: jej@avk.dk

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Niels Aage Kjær's 40th anniversary



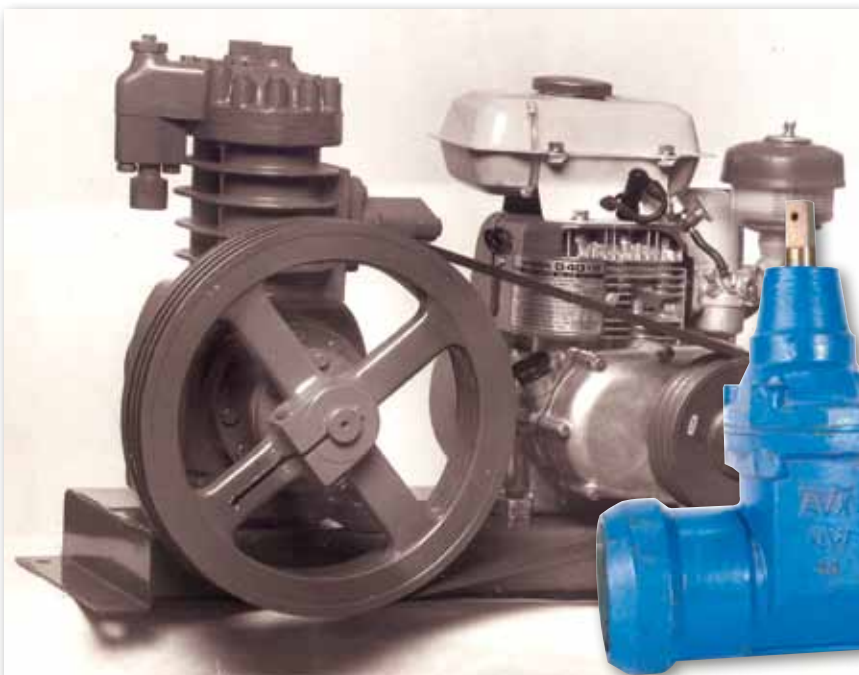
When Niels Aage Kjær took over his father's business, it was a modest company performing everyday plumbing and heating services along with a minor production of compressors for the refrigerator industry, which mainly supplied farmers in need of cooling their cows' milk.

But Niels Aage Kjær had other plans for the company and he started developing valves for the water supply. The first valve was a socket gate valve for PVC pipes which formed the basis of the AVK we know today and since then, business has expanded tremendously.

Developing a company with a small group of local workers and making it a worldwide group of companies with more than 2000 employees in only 40 years is quite a performance. Nevertheless, this is what Niels Aage Kjær did and today, AVK is represented in more than 50 countries and our products and services are supplied to more than 80 countries worldwide.

Due to organic growth as well as acquisition of companies with a product program complementing our existing one, AVK is now one of the leading manufacturers of valves for the water, gas and sewage industries as well as for fire protection worldwide. Our product database includes more than 80,000 item numbers.

On Friday 4th June 2010 from 12:00 – 16:00 we celebrate Niels Aage Kjær's 40th anniversary with a reception in the AVK Academy and Visitor Centre. Besides Niels Aage Kjær's friends, family and colleagues we also look forward to welcoming customers and business associates.



Repair of leaking pipes

– irrespective of type and dimensions

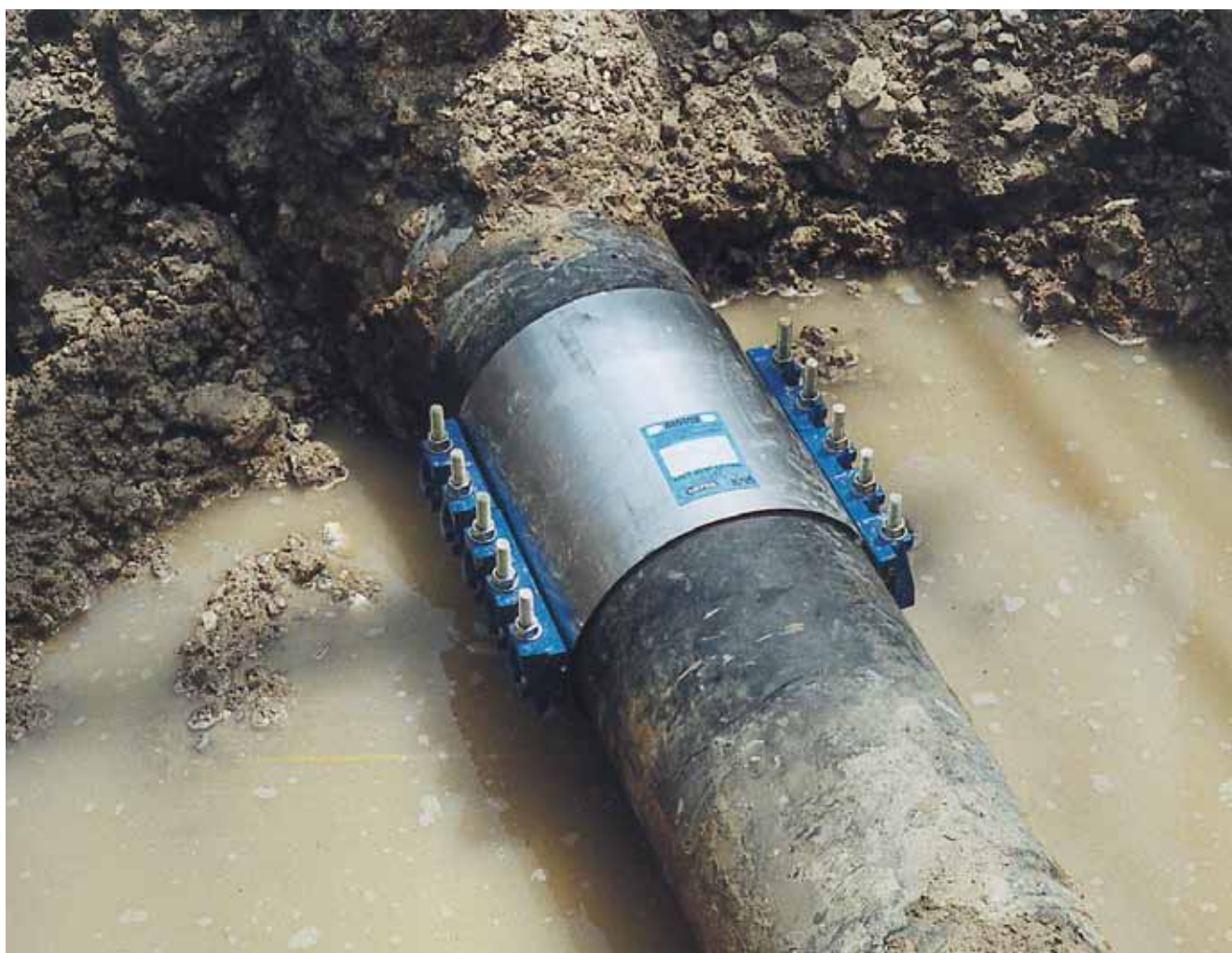
Finding a leakage is one thing – repairing it is quite another.

When a leakage has been located and the extent of the damage established, it normally has to be decided, whether the pipe needs changing, or whether it is possible to repair the damage. If the diameter of the pipe is large, or other circumstances make it difficult or maybe even impossible to replace the pipe, repairs have to be carried out on the spot. Having dug the pipe free, it is imperative that the repairs are made as quickly and simply as possible and without the use of special tools.

AVK offers a wide range of repair collars applicable to all types of underground piping owing to their tolerance margins. For DN 400 pipes and upwards we can offer repair collars for internal mounting.

The bursting of water pipes can usually be attributed to a settling or faulting of the surrounding soil, which the pipe has been unable to absorb. If a repair collar is used for such repairs,

the problem may well be transposed to another location on the pipe. For this type of damage, AVK recommends a Supa Collar™ solution, capable of absorbing a deflection of the pipe of up to $\pm 4^\circ$.





▲ AVK develops its own unique types of rubber with extra durability and the form stability necessary in resilient repair collars.



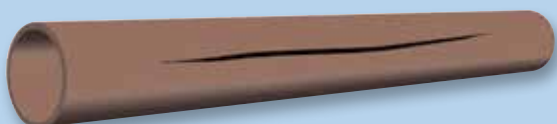
Cast iron pipes:

- Cracks typically appear circumferentially on the pipe.
- The cracks are most often caused by stress in the pipe.
- The pipe should be stress relieved before repair.
- With minor earth settlements, part of the pipe is cut out and replaced by a new piece of pipe and couplings.



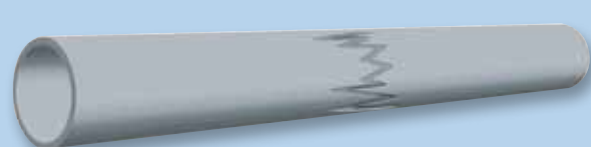
Asbestos cement pipes:

- The tolerance area of the repair clamp is important.
- Cracks typically appear circumferentially because of stress in the pipe.
- Often the crack zone is in the middle of the pipe, where the external diameter fluctuates the most.
- Stress relief is required.



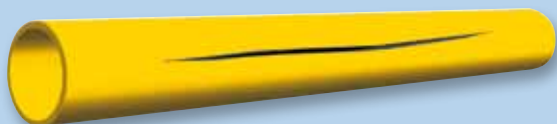
PVC-pipes:

- The pipe is typically deteriorated because of ozone and UV-radiation.
- Crack zone longitudinal and circumferential of the pipe.
- The pipe should be stress relieved before repair.



Ductile iron pipes:

- Direct pipe cracks, where the pipe cracks in two, only in rare instances.
- Most often leaks appear in connection with incorrect use of pipe fitting, resulting in galvanic corrosion.
- Longitudinal cracks are stopped by drilling the pipe in both ends of the crack.



PE-pipes:

- Cracks most often appear due to mechanical impact on the pipe.
- Repair of large PE cracks is done by cutting out the damaged piece and inserting a new piece by means of socket fusion welding.

Helping leakage prevention – a holistic approach

By AVK UK Ltd.

AVK UK Ltd. Whatever the cause, curing leakage comes at a high cost, and has put prevention and cure at the top of the agenda of the water industry.

AVK, the leading manufacturer of valves, hydrants, pipe fittings and other accessories for the water, sewage and gas industry, believes that in case of a leak, prevention through design and maintenance, and a fast efficient repair at least possible disruption, are the most effective solutions.

AVK offers products that are highly innovative and comply with the highest standards of safety and quality. The products come in most relevant standards such as BS, ISO, CE, DIN, AWWA, and as a part of their global philosophy of alignment with its customer's strategic drivers, AVK offers support, products and solutions to issues ranging from ensuring the

management and prevention of leakage, to initiatives concerning carbon reduction.

Prevention through design

AVK products, such as gate valves, hydrants and swing check valves, are facing testing in the UK that highly exceeds the products designed application in terms of life cycles and pressure tests, and all products are successfully tested beyond these criteria. All AVK valves are 100% tested prior to packaging and dispatch.

Other AVK initiatives, where prevention through design is apparent, include the following; Fitting AVK series 29 fire hydrants with auto-frost valves as a standard, Using elastomeric seals to prevent degradation across the life of a product, Preventing air-containment in water mains causing them to rupture by using the AVK series 701 - the most

innovative range of air valves, and last but not least supplying pressure reducing valves to the mains', all the while maintaining full service to the customer.

Prevention through maintenance

Maintenance warranties are extended on all AVK products and can be carried out quickly and cost-effectively due to the product design.

Efficient repair

In the odd case of failure, a full range of standard repair fittings as well as service offers, such as planned repair and emergency response, are available from AVK. In the future, AVK will continue to support our customers with solutions to address their strategic issues.

For more information, please visit our website www.avkuk.co.uk.



Picture from Trondheim - DN 700 ductile iron pipe main line chamber delivered by AVK
Sent in by Svenn Tage Austmo, area manager, AVK Norge AS

The wedge is the heart

By Michael Ramlau, marketing manager, AVK International A/S

New AVK rubber brochure

Quality is a topic which is often discussed. To an extent, quality is perceptual and may be understood differently by different people. Even though we might have different criteria for good quality, we all expect a certain level of quality in a product.

We strive to offer our customers more than they expect, but quality and price are connected and therefore it is not always an easy task. When customers compare our products to competitive products, they sometimes decide to buy a cheaper product. It can be difficult to convince customers that a cheap product is often also a low-quality product and as such with a shorter

life, and this probably ends up being just as expensive as a high-quality product in the long run.

Therefore, we decided to put emphasis on the importance of choosing a quality product and took resilient seated gate valves as our starting product.

**What if at birth,
you were able to choose your own heart?**

**Would you choose a cheap heart which
broke down - sending you in and out of
hospitals or would you choose a quality
heart that remained healthy and strong
throughout your entire life?**

In our new brochure we compare the AVK wedge with the human heart because the wedge is the heart of the gate valve. And we ask you directly: Would you choose a cheap and weak heart that sends you in and out of hospitals or would you prefer a quality heart that keeps you strong and healthy for a long time?



New flow lab and show lab

By Michael Ramlau-Hansen, Marketing Manager, AVK International A/S

A long cherished wish is finally coming true.

For a very long time, it has been a profound request from our development department to get a realistic test system for test of valves and hydrants; especially regarding flow and operational pressure. Such a test system – our new flow lab – is now being built.

We decided to make a show lab along with the flow lab in order to be able to show our customers, employees and others how to install and use our products in a realistic system.

At the moment, a large water reservoir and a pump chamber have been installed and all return pipes for the reservoir have been installed in the floor along with other drains. Now a huge installation work is left to be done to have our new flow lab and show lab ready for presentation at Niels Aage Kjær's 40th anniversary the 4th June 2010.



AVK hydrant series 84 sent in by Marco Ziegenhorn, AVK Mittelmann Armaturen GmbH

IC Valves China Co Ltd

By Trevor Sculthorpe-Pike, General Manager, IC Valves China Co Ltd

ICV bags its first major order.

ICV has landed an order for a prestigious Malaysian development company in Shanghai that will be using ICV products in its new 5 star hotel building.

Kerry City Properties Group is constructing a new ShangriLa Hotel in Pudong which will be one of the company's flagship properties. ICV will be supplying the general valves for this project and with that comes the recognition that ICV has 'arrived' in China.

ICV, a wholly-owned AVK company, is active across most of Asia supplying balancing and general valves to the HVAC and building services industry for both new and reconditioned buildings. China has been the focus of the push for this new business with SE Asia also offering significant opportunities. GM Trevor Sculthorpe-Pike adds; "Now the ICV team is really beginning to take shape and with hard work ICV will carve out a new and exciting business for the AVK group. We look forward to the time when ICV becomes as recognized in the building services market as AVK is within the water and gas markets".



The ICV "Deltamatic" automatic balancing valve



The logo on a bronze ball valveThe ICV "



ICV China staff (from left); **Ms Wang** - Accounts, **Trevor Sculthorpe-Pike** - GM, **Svien Bi** - Salesman, **Robert Xu** - Salesman, **Johnny Wang** - Marketing and Assistant to GM, **Yale He** Salesman.
Missing from picture is **Peter Jiang** - Technical and **Johnny Sng** in Singapore

AVK Mittelmann Armaturen goes green...

By Ilka Draeger, Marketing coordinator, AVK Mittelmann Armaturen GmbH

AVK Mittelmann Armaturen GmbH (AVKMA) gains sustainable energy from a new blast cleaning system.

Faster, better and sustainably efficient - these are the main benefits of the new blast cleaning system that has recently been installed at AVKMA.

A compressed air station (see picture) delivers up to 13.4 m³ of air per minute and consists of two 5000 litres tanks. Up to 72 % of the energy that is created

in this supply process is recovered (by full load of the compressor).

The recovered energy is used for hot water supply for i.e. an existing hot water and central heating system, indirectly for the staff lavatories and showers, cleaning of equipment, the electroplating shop, and all industrial cleaning processes. What is more, the hot exhaust air serves as a heating for the assembly hall! No extra costs –

no extra CO² emission (and no extra waste of fossil energy).

The blast cleaning machine itself was transformed from an existing whirl gate blast clean machine, which is another gain - recycling and keeping investment costs low (at approx. 200 k EUR). The machine has enough capacity to blast clean two hydrant bodies at the same time and four hydrant bodies per bail. A runtime of only two minutes per blast clean procedure is required.



Besides the "green" facts, the new blast clean system enhances surface quality, especially on the inside of the bodies. GSK guidelines are easily met, resulting all together in an enhanced product quality.



AVK knife gate valves and check valves installed for the sake of sustainable energy at Kohlfurth sewage treatment plant.

Have you ever asked yourself what happens to food when it is past its "best before date" on the shelves in your local supermarket? Giving it away to the poor and homeless is an option - of course preconditioned that the food is still well to avoid causing more damage than charity... Otherwise, food that has exceeded its "best before date" is just waste! The same applies to all the greases that are used in restaurants and snack bars – it all sums up to a whole lot of waste. And waste has to be dumped or burned somewhere; at least, that is what used to happen to it.

But there is much more to it – how about using it as a never-ending source of sustainable energy? It seems to be an increasing trend – especially within sewage treatment plants. Why there? The principle is not far away from what is made of sewage sludge, i.e. flammable sludge gas,

which has a long tradition in sewage treatment plants. Due to the flammable sludge gas treatment inside of the block heating station the plant's own generation of electricity can be raised significantly.

It is strived for to operate the complete sewage treatment plant by itself, making it independent from external electricity sources.

The Kohlfurth sewage treatment plant (Wuppertal) has also started with CO fermentation. The Kohlfurth plant was established in 1972 and was expanded by three times the capacity from 1998 to 2006. In October last year the construction of the CO fermentation plant for Wuppertal was commenced.

The plant's management made its demands very clear: absolutely no smell must leak from the pipe system and both the people working in the plant. Further, the main "material" transformed in this system is grease which can easily choke the pipe lines and valves.

These special circumstances imply highest demands to the plant and its equipment – thus especially to its valves! The valves have to operate smoothly in rough conditions and be even more than drop tight. No smell must leak from them either!

During an earlier visit to the Kohlfurth plant Jürgen Dylla and his industry team gave a presentation on AVK Mittelmann, the AVK group and our industry valves. The participants were soon convinced of the unique benefits of our knife gate valves, so the decision was clear at once.

All in all 32 AVK knife gate valves (with more than 50 % actuated by AUMA® gear) ranging from DN 100 up to DN 150 and 4 check valves are installed in the CO fermentation plant. At this moment the last tests are being conducted. All test runs were finished with success! The plant is expected to go online by the end of April.



AVK Overseas teams up with HD Supply Waterworks, Ltd.

By George Smith, Account Manager, Caribbean-HD Supply Waterworks Ltd.

Both AVK Overseas and HD Supply Waterworks, Ltd. have successfully managed their business pursuits in the Caribbean, and until recently they operated individually. Now our two companies have joined forces in a strategic cooperation and HD Supply Waterworks, Ltd. is the appointed exclusive AVK Master Distributor for the Caribbean.

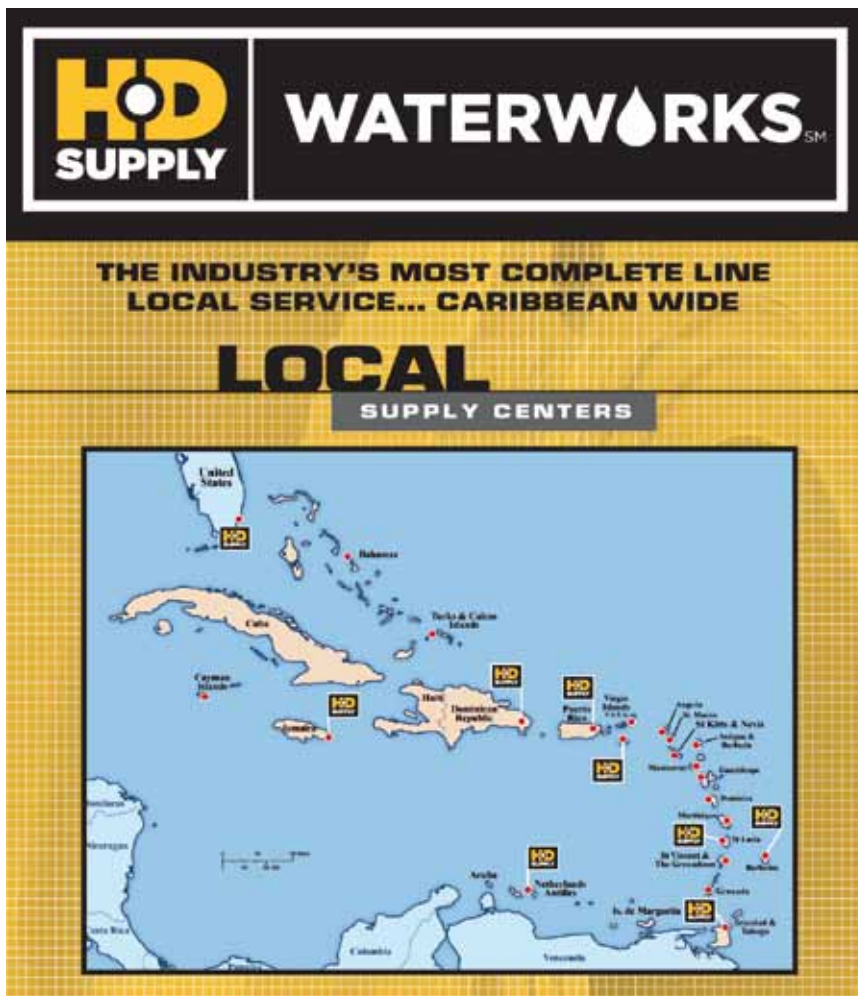
The concept is to process orders to the end-users on behalf of the local representative/distributor partner.

The plan is to build up a strategically located inventory of products that meet the various needs and expectations

of the diverse customer base in the Caribbean Basin.

The package is the AVK product lines: According to AWWA/ANSI, BS/DIN/ISO and EN/ISO standards packaged with the applicable pipe and other products associated with the construction, operation and maintenance of waterworks utility systems. The package includes equipment designed for water distribution, pressure management, flow measurement and control, wastewater collection and treatment. It also includes the HD Supply Waterworks, Ltd. customer advantage programs and our own rapid response program.

The benefit to AVK is an increased opportunity to provide more products. The benefit to HD Supply Waterworks, Ltd. is to market products which are made to a wide range of international standards, and thereby opening new opportunities to a wider geographical area. The benefit to the local representative/distributor partners is the additional support from the larger team and some relief from the costs associated with inventories and receivables. The benefit to the end-user is a more complete product package and a shorter lead time.



The advantage of the HD Supply Waterworks, Ltd. customer advantage programs (CAPs) includes a variety of offerings, including the most advanced material management capabilities in the industry.

The team consists of AVK research and development personnel, the AVK manufacturing groups and the sales and marketing companies, as well as the parallel personnel from the other manufacturing partners. It includes the HD Supply Waterworks Ltd. associates, our local representative/distributor partners and finally our logistics partner Kestrel Liner Agencies, LLC.

The goal is to provide service, products, equipment and inventory that meet and exceed the needs and expectations of the client base and to produce a reasonable return to all the stakeholders.

"High-tech" sales cooperation

By Ilka Draeger, Marketing coordinator, AVK Mittelmann Armaturen GmbH

We are happy to announce that AVK Mittelmann Armaturen GmbH, AVK Plastics BV and 3S Antriebe GmbH have officially signed their cooperation by 1st January 2010.

During the Wasser Berlin 2009, AVK Mittelmann first presented the "System Berliner Kappe®", which has been developed in close cooperation between the Berlin Wasserbetriebe and 3S Antriebe GmbH in order to improve maintenance of buried valves in water and energy supply. AVK Plastics BV has developed a special non-rotatable support tile for this system transferring the operation torques into the ground.

A mobile adaptor is connected to the non-rotatable support tile via a support part. The AIG1000 is then fixed to the adaptor avoiding any other rotation. This enables maintenance of even large valves conducted by only one person. The Berlin Wasserbetriebe has already equipped about 15 valves with the "System Berliner Kappe®" for tests. The outcome of these tests was positive. From the middle of this

year on, installations will take place by significant numbers. Other major supply companies in Germany are about to follow.

The battery operated valve maintenance device 3S AIG 1000 covers the complete chain of maintenance through its functionality. For inspections, the device can objectively collect all data about the valve's functionality. It measures the operating torques from all over the complete stem - from the initial breakaway moment to closing - and it saves all collected data. These data are transformed to electronic documentation via an interface. The valve's nominal conditions can therefore be backed-up in the system. During maintenance the actual conditions are related to the nominal conditions. Maintenance is carried out until the valve is restored to nominal conditions. Actions taken and their results are automatically documented. At the same time, the AIG 1000 detects the number of turns exactly up to the decimal point. A good indication for a drop-tight closing of the valve is

given at the point when a defined nominal number of turns is met during an inspection of the valve. The valve maintenance device has enough power to loosen even hard-steering valves – proving the successful maintenance afterwards.

All data are provided electronically and can for example be connected to the GI System.

Comparing the data of the actual conditions to the maintenance targets, the optimal maintenance cycles can be forecasted in order to ensure a precautionary and condition related maintenance, implying a decisive optimisation regarding all efforts.

The company 3S Antriebe GmbH won the 2007 competition for the best business plan of business founders in Berlin-Brandenburg, and in December 2009 it was awarded "Newcomer of the month" by the business magazine "Impulse". In January 2010, a press conference was held at their Berlin office with participation of Mr Brüderle, Federal Minister of Economic Affairs.



Reconstruction of supply network in the area of Karlovy Vary

By J. Vytlačil, Sales Manager, AVK VOD-KA a.s

Karlovy Vary is the largest spa city in the Czech Republic and famous in many parts of Europe for its many spas. This water pipeline supplies drinking water to many of the city's major hotels and spa facilities.

Our customer (The water utility of Karlovy Vary) decided to use AVK valves series 36 to reduce the flange connection and make the pipeline as one part welded from PE.

The customer used about 40 AVK valves in different sizes for this water pipeline and is convinced that due to this solution, it will be possible to provide a trouble-free service for at least 50 years.



AVK introduces new gate valve into Mexican market

By Kim Ludvigsen, Senior Vice President, AVK Overseas (Mexico - Central America - Caribbean)

Series 716: ductile iron gate valve:

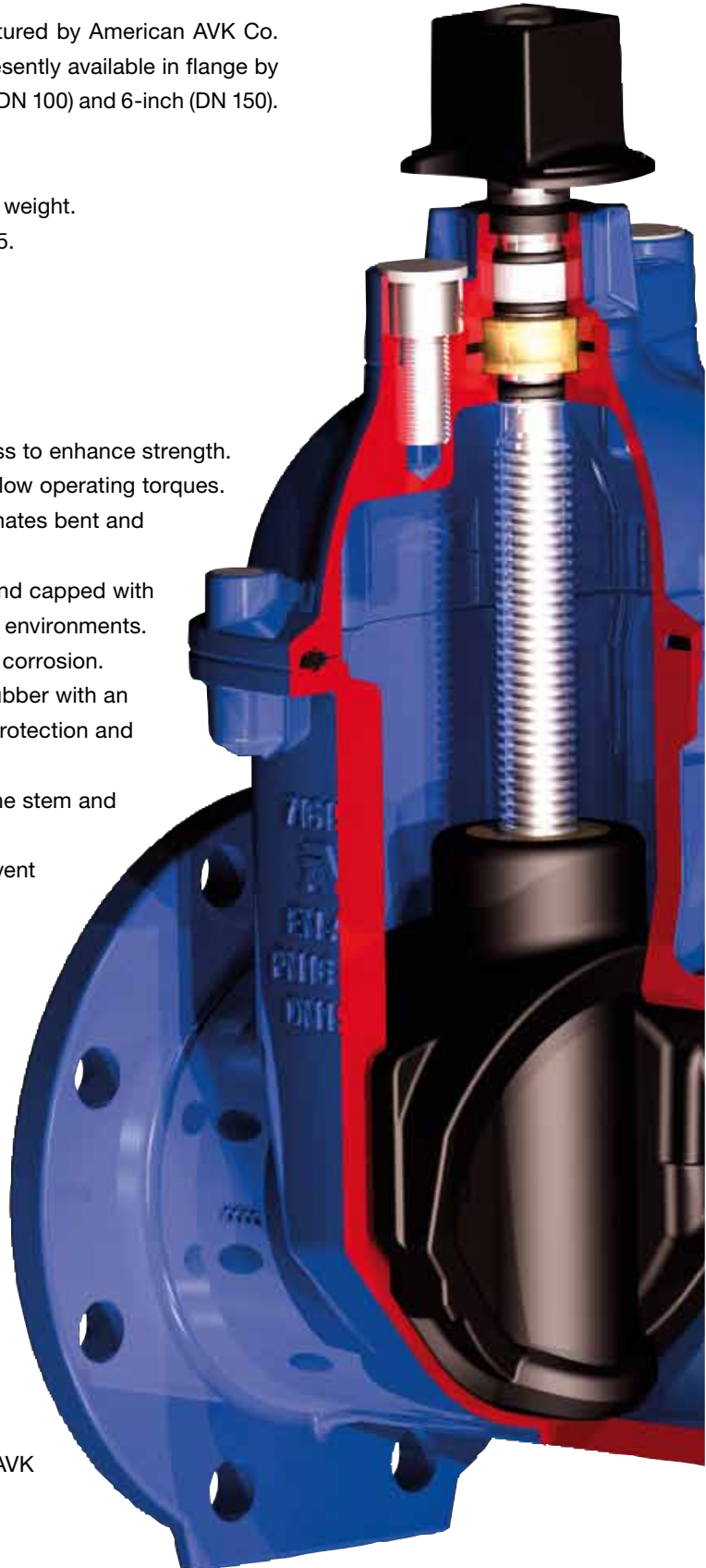
The series 716 is an all ductile iron valve manufactured by American AVK Co. and offered by AVK Overseas. The series 716 is presently available in flange by flange configurations in sizes 3-inch (DN 80), 4-inch (DN 100) and 6-inch (DN 150).

Features:

- All ductile iron construction for strength and light weight.
- Flanges are drilled to ANSI/ASME B16.1 Class 125.
- Laying lengths according to ANSI/ASME B16.10
- Pressure rated to 250 psi (PN 16).
- Internal coating certified to ANSI/NSF 61.
- Stainless steel stem.
- Lead free.
- Threads rolled in a separate cold pressing process to enhance strength.
- Rolled threads ensure smooth thread edges and low operating torques.
- Twice the yield strength required by AWWA eliminates bent and broken stems.
- Bonnet and gland flange bolts are countersunk and capped with hot melt to totally isolate the bolts from corrosive environments.
- O-ring bonnet gasket wraps each bolt to prevent corrosion.
- Ductile iron wedge fully encapsulated in EPDM rubber with an integral bronze stem nut for optimum corrosion protection and precision wedge tracking.
- Wiper ring - to prevent impurities from entering the stem and to protect the O-rings.
- Two O-ring stem seals to reduce friction and prevent wear and tear - replaceable under full pressure.
- Third O-ring stem seal protects upper stem from impurities entering from the water way.
- Coating to AWWA C550 - electrostatically applied fusion bonded epoxy coating inside and outside for excellent corrosion resistance.
- Designed and built to widely recognized international standards.
- 100 % testing - all valves tested to 250 PSI leak test / 500 PSI shell test as required by AWWA.

The series 716 gate valve is marketed in Mexico by URBAC, our exclusive AVK Master Distributor for Mexico.

For additional information access the American AVK website at www.americanavk.com.



Leading role in Scottish Water improvement scheme

By AVK UK Ltd.

AVK UK Ltd have secured an order connected with one of Scotland's biggest ever infrastructure improvement schemes with the majority of products supplied by Glenfield Valves.

Valves from the Kilmarnock-based company are amongst those selected for Scottish Water's new strategic programme of capital investment to build a new water treatment works at Glencorse in Midlothian, which will replace ageing mains and storage tanks providing water to Edinburgh and surrounding areas.

There have been two orders to date. The first, for the distribution system, was received and completed in late 2008 / early 2009, and the second, which is for the works itself, was won in mid-summer and is worth in excess of £1 m. The first order, from contractor

Carillion, was for large diameter valves for the diversion of existing mains to the Talla and Meggett reservoirs in the hills above the A702 trunk road. Included were ten 900 mm gate valves and a further two of 1100 mm size.

For the treatment works, Black & Veatch needed a wider range of types and sizes – air valves (200 mm), butterfly valves (300 mm – 1200 mm), gate valves (80 mm – 1600 mm) and non-return valves (200 mm – 700 mm) which AVK UK in partnership with Glenfield Valves were able to deliver. In addition, Black and Veatch will deliver a programme of new mains which will take 18 months to complete, as 15 km of new pipe goes into the ground.

As well as the demonstrable quality and proven product reliability, there were other special considerations

that helped win the orders, especially the capacity for rapid and reliable delivery when valves were required urgently. For this reason, Glenfield's closeness to the project (just 50 miles away, with good road and motorway links) told heavily in its favour, as Alan McNiven, key account manager for AVK UK, explained. *"Both customers have the reassurance of knowing that the Glenfield valves are coming directly from our factory here in the UK. In effect we can act as a local stock facility, so there is much less need to handle and store valves on site. In addition, our technical advice is always just a phone call away – and if our presence on site is necessary, we can be there in just an hour or so."*

When completed, Scottish Water's Glencorse WTW will replace two outmoded treatment works at Fairmilehead and Alnwickhill, providing up to 175 million litres of water a day to 21st century treatment standards in accordance with strict European guidelines on drinking water quality.

The project is the most significant part of the Edinburgh Drinking Water Project, a £130 m investment programme for Edinburgh that will cater for the drinking water needs of nearly half a million people and accommodate the impacts of the continued growth of the city.



Two of Glenfield's gate valves for Carillion ready for installation.

Water supply project in Serowi – Botswana

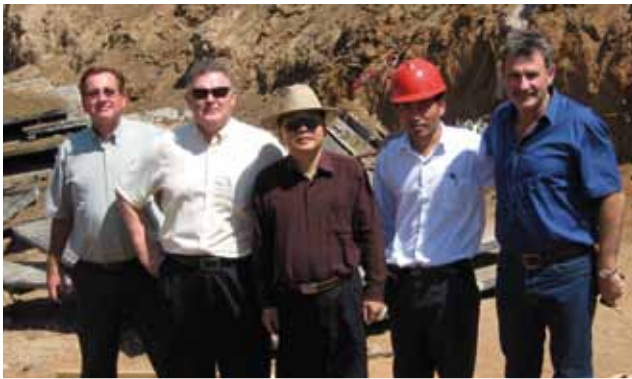
Patrick Jantjies, AVK Valves Southern Africa Pty. Ltd.

The AVK brand is well known for its water supply projects in Botswana and has a track record of more than 12 years in the southern parts of Africa. Thanks to the efforts of our local distributor, Technology Supply Company – Botswana (TSC-Botswana), we are able to supply a variety of isolating, non-return and control valves to this market.

Recently, Tjaart van der Walt, Managing Director of AVK Valves Southern Africa accompanied by Patrick Jantjies (AVK Valves S.A.) visited the Serowi Water Supply project in

Botswana to advise on the installation and commissioning of 59 x 600 mm, AVK series 54 gate valves. The 25 bar high-pressure gate valves supplied by AVK Valves (ANHUI) Co., Ltd were of excellent quality, and the delivery times exceeded the customers' expectation. Well done!!!

This project endorsed AVK's expertise, capabilities, quality, and delivery times. AVK Valves S.A. looks forward to supplying the new waterworks projects in Botswana in the near future.



Chris Ellis - TSC-Botswana, **Andrew Bald** - TSC-Botswana, **Johnson** - Project manager - China Ginsui, Site Engineer - China Ginsui and **Tjaart van der Walt** - AVK Valves Southern Africa (Pty) Ltd.





Rio Colorado – Tijuana Aqueduct (ARCT) project in Mexico

By Ing. Mario Luna, Technical Manager, URBACA

Living in a desert area with less than 50 mm of rain per year makes you value water as a precious asset. The aqueduct that will supply water to the northwest region of Mexico, including the cities of Tijuana and Tecate, is considered one of the best ever built in the country of Mexico.

The project design started in 2006 and the State of Baja California set the quality bar very high for all the components of the ARCT system. Piping, valves, pumps, fittings, coatings, etc. everything was carefully specified and selected. Only long time warranty products that meet or exceed AWWA standards were allowed. Also, summer temperatures above 52° C (125° F) in the middle of one of the hottest places in the world set a challenge for the ARCT long-term "free of problems" responsibility.

AVK obtained a contract to supply the large gate valves from AVK Glenfield from 24" (DN 600) to 72" (DN 1800) as well as all resilient seated gate valves and surge controlled air valves and now, after three years of construction and

more than 150 million dollars investment, the aqueduct is almost complete.

AVK is a well-known manufacturer of water distribution and transmission line products in Mexico and URBACA is the exclusive AVK Master Distributor for Mexico.



Sydney SewerFix – Australia

By AVK Australia Pty. Ltd.

Sydney Water is delivering SewerFix, a program that aims to protect public health and the environment by significantly reducing overflows and leaks from the sewerage system. Over the four year program, Sydney Water will have spent AU\$ 560 million fixing leaks and blockages in pipes, installing new pipes and valves as well as upgrading existing sewage pumping stations.

Sydney Water's wastewater system takes away 70 billion litres of wastewater every year from sinks, toilets, showers, washing machines and dishwashers. It also takes waste from industries and businesses.

Fats, debris, tree roots and other materials can block the wastewater system and prevent it from working properly. Blockages can cause a "Dry Weather Overflow", meaning

polluted water overflows into the environment. The sewerage system is designed to cope with three to four times the average dry weather flow. However, flows through the system have increased as a result of development and population growth. In addition rain water can enter the system during wet weather through cracks or faults in the pipes. When wet weather flow rates exceed the capacity of the sewers, overflows may occur.

One priority of the SewerFix Program is to reduce the number of dry weather overflows.

Australian made series 55 & 57 gate valves and series 41 swing check valves are being installed in the pipework development of this program.



A pit construction at Neutral Bay in the Sydney metropolitan area with the AVK valves being installed.

7th regional municipal company conference Bialowieza 2010

By Marek Brzozowski, Sales Manager, AVK Armadan Sp. z o.o.

Earlier this year, at the 7th edition of the regional waterworks conference, AVK Armadan SP. Z o. o. gave more than 200 people from 60 municipal companies the opportunity to experience, present and publicize the latest in technical solutions, technologies, facilities and services, as well as establishing new relationships.

Following the conference, AVK Armadan Sp. Z o. o has experienced a great marketing response, especially with regards to the presentation of the completion of the sewage system in Zyrardow - the biggest in Poland with more than 170km and one of the main topics at this year's conference.

The highly successful conference was completed with a leisurely celebration organized by Marek Brzozowski from AVK.



Applicable AVK valves and fittings

By Frantisek Sramek and Petr Kvicera, AVK VOD-KA a.s.

Even in the middle of a freezing winter, AVK valves and fittings are very easy to use.

The renovation of an old DN 400 cast iron pipe (GG) was carried out this winter in snowy weathers with subzero temperatures. Nevertheless, the old pipe was cut, and following it was connected to the distribution area via DN 100 valves with Supa adaptors.

Our customer, Technicke sluzby Strakonice was very satisfied with the work which was carried out in only 5 hours.

The decision-makers of the company, Mr Vondricka and Mr Kraml, who approved this work, chose AVK due to the long-life and easy operation of the valves.



Vandtek09 – Odense
Congress center 11th-14th
November 2009

By Jesper Flarup, Sales Department,
AVK International A/S

Vandtek09, arranged by DANVA, The Danish water and sewage association, welcomed more than 4,000 visitors, making it the largest exhibition ever held in Denmark, and a meeting point for more than 169 exhibitors. The exhibition was arranged at the request of the Danish water and drainage sector, and came at a perfect time, just before the UN climate conference COP15 in Copenhagen, and at a time when AVK's facing large challenges with regards to products, policies and legislation.

At the exhibition AVK presented our updated series 05 program and the launch of our new website www.avkventiler.dk, both of which were very well received. The AVK sales team would like to thank everyone involved in making the exhibition a success.



New website
– AVK Netherland B.V.

By Justin van Dongen, Marketing
Cordinator, AVK Nederland B.V.

When a study made by AVK Netherland B.V, on the use of its internet site, surprisingly showed that the site was mainly used for obtaining product information, and that, when asked, 40 % of people didn't know of or used

the internet site at all, we decided it was time to act! After a year of development, the new internet site was finally presented on February 19th 2010.

In addition to AVK organizational information, the site also contains news concerning the vast product assortment of AVK, product developments and general AVK activities. With a new search function and a function called FAQ (frequently asked questions), holding questions and answers from the field, the site will be the go-to place for information about AVK Netherland B.V and the market in which it performs.

Are you not able to find what you're looking for? Fill in the liaison form and you'll receive a response within one working day. Visit us at www.avknederland.nl.



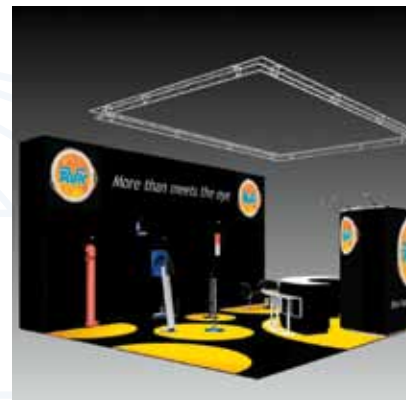
Visit us at Interschutz 2010 in
Leipzig

From the 5th - 10th June 2010 AVK will be attending an International fire protection exhibition - INTERSCHUTZ 2010 - in Leipzig, Germany.

With more than 120,000 visitors and 1,100 exhibitors, INTERSCHUTZ is the leading international trade fair for civil security. No other fair can compare with the comprehensive range of displays and events dealing with prevention, rescue, defense and services, or with the exceptionally high calibre of visitors - over 90 % are industry professionals.

We will be showing our fire protection solutions and - systems, and promoting our fire protection segment.

If you want a ticket for this event please contact adl@avk.dk - Find AVK in Hall 5 stand C46.



Vodokanal college PU89

By Volyntsev Maxim Vladimirovich,
Engineering manager,
Santeh-Servis Co. Ltd.

SANKT-PETERBURG VODOKANAL's Information & Educational Center - **Vodokanal college PU89** decided to present AVK hydrant for Vodokanal and within the bounds of presentation they have made demonstrative replacement of russian hydrant by AVK hydrant.

Actual installation will be in the spring since the training ground, where hydrant will be installed, is disconnected from water supply now.



ANEAS Convention 2009 in Leon Mexico

By Ing. Mario Luna,
Technical Manager, URBACA

Celebrating 200 years of Mexico's independence, the XXIII National Waterworks Convention of Mexico was hosted by the City of Leon Guanajuato, the origin of the Mexican independence revolution.

From 2nd to 6th November, the convention known as ANEAS (National Association of Water and Sanitation Utilities) was held at Poliforum Leon. AVK participated as part of URBACA's pavilion.

AVK and URBACA have participated in ANEAS conventions since 1991, and this time was no different. This year we participated with an impressive showcase of products and services along with "Talleres" or technical workshops, where customers have an opportunity to receive training on the use of AVK products.



Mexico-Glenfield/Wouter Witzel Seminar

By Felipe Fernandez, Engineer,
URBACA

A sales and technical seminar was held in August 2009 in the Tijuana headquarter facilities of URBACA.

The training was attended by the regional, commercial and technical

staff of URBACA and its sister company Futura Industrial.

It was a very interesting seminar where topics such as design, production and sales strategies for both AVK's companies were discussed, and a plan to introduce these companies in México was presented.

To date, Glenfield and WW EuroValve products have already used for several important projects in Mexico.



ENVIROTECH - WATERTEC '09, in Athens, 22 – 25 October 2009

By Helen Vaiou, Communications
Coordinator, General Commercial &
Industrial S.A.

On 22th-25th October 2009, the Exhibition on ENVIRONMENT – WATER TECHNOLOGIES was held in Athens, Greece. ENVIROTECH - WATERTEC addresses everyone involved in environment, water and green building issues at a state, social, investing, business, educational, studying, political and cultural level, and the exhibition is mentioned as "The meeting point for the experts".

Within South-East Europe, GENERAL COMMERCIAL & INDUSTRIAL S.A. (G.C.I.) has one of the largest stocks of products for the supply of industrial equipment as well as products associated within water networks. The company was founded in 1966 in Aspropyrgos (Attica-Greece) where it still retains its headquarters, while also

administrating its subsidiary GENERAL COMMERCIAL of NORTHERN GREECE S.A. in Thessaloniki to take care of the company's customers in North Greece as well as in Balkan countries, and a representative office in Bucharest, Romania. Among others, G.C.I. specializes in equipment for water supply – irrigation - sewerage networks such as resilient seated gate valves, butterfly & knife gate valves, various kinds of check valves, control valves, air valves, pipe fittings, manhole covers and gratings, drainage channels in polymer concrete, etc. products that were exceptionally projected during WATERTEC '09.

G.C.I. is the exclusive distributor of AVK International A/S in Greece, selling AVK products to its wide customer network that incorporates industries, construction companies, public sector, commerce, shipping etc. The AVK brand was prominently displayed at the G.C.I. stand, as almost the entire AVK product range occupied central and imposing stands.

The variety of specialized and high standard equipment, in conjunction with the expertise and excellent service that G.C.I.'s team of engineers provides, attracted plenty of visitors at the company's impressive stand. The visitors covered almost every sector dealing with environment and water.

This key event fulfilled G.C.I. goals as it gave the company the opportunity for interesting meetings and deals for the promotion and expansion of sales and business transactions.



Mexico - Danish Water Days 2010 in Mexico City

By Nayelli Magallon, General Manager, UR Mexico

The Danish Embassy in Mexico City in conjunction with the Trade Council of Denmark, and the National Water Commission of Mexico invited Danish companies to explore their opportunities in the Mexican market for water treatment technologies. As part of this initiative they organized the event called: "Water Seminar Mexico-Denmark. Opportunities to invest in Hydraulic Infrastructure". This took place 4th March 2010 in Mexico city.

It had participation from different sectors from both Mexican and Danish society: government, research entities, and private companies. We were honored to have the presence in this event and of welcoming the Royal Highnesses Prince Joachim and Princess Marie of Denmark. His Royal Highness Prince Joachim gave a speech in which he enhanced the old tradition of cooperation between our two countries and a great opportunity this was to jointly promote projects for the efficient usage of water.

AVK has had presence in Mexico for more than 20 years, and during this time we have worked together with Mexican water utilities and private companies to provide products and services that will assure efficiency in the water sector.

Due to low water use efficiencies, in addition to Mexico's incessant population growth and low water availability, the water in our rivers and lakes has become insufficient in certain zones, the sources of groundwater supply overexploited and the natural quality of water has deteriorated. This has brought on growing competition for water, which has translated into conflicts in different areas of Mexico and is beginning to

negatively affect social well-being and economic development.

One of the most important objectives for this administration according to Jose Luis Luege Tamargo, General Director of the National Water Commission is: *To increase access to and quality of drinking water, sewerage and sanitation services.* The objective for 2012 is to treat 60 % of the wastewater. In 2006 the percentage treated was only 36 %. As a part of this objective, Mexico has also started construction and operation of aqueducts to help bring water to needed areas, remember that two thirds of the land in Mexico is arid or semi arid. Finally, but not less important, has been the program to give maintenance and upgrade dams with the latest technology that will allow an efficient usage of the water, 40 % of the dams are obsolete due to the lack of maintenance over the years.

All of these projects and programs have been approached by the Mexican government inviting the private sector to invest and operate for a period of time their investment.

AVK has been actively involved in Mexico in projects which objective has been to increase the efficiency in the

water supply. For 5 years AVK valves have been selected to be installed in Mexico City, as part of the program called: Sectorization, to stop the leaks by controlling the pressure in the network. Also, and most recently AVK has been part of the construction of the Aqueduct in Rio Colorado, Tijuana supplying 72" valves, among others of different sizes.

Now that Mexico is facing these challenges in a proactive and project management way. AVK has been recognized as a company who has the technology and service to help Mexico achieve its goal.

The Prince and Princess visited the booths of the Danish companies, and Kim Ludvigsen, AVK Overseas (Mexico - Central America - Caribbean) showed our products and solutions for the water market, talking also about our experience working in Mexico.

AVK has the presence, product, technology and service to work with the Mexican Government in this new horizon for major projects, and this Danish-Mexican seminar is an example of cooperation between these two countries.



From the left Kim Ludvigsen, AVK Overseas, his Royal Highness Prince Joachim and Princess Marie of Denmark.

CWWA Conference 2009 in St. Thomas Caribbean

By George Smith, Account Manager, Caribbean-HD Supply-Waterworks Ltd.

AVK Overseas and the exclusive AVK Master Distributor for the Caribbean HD Supply – Waterworks, Ltd. exhibited together at the Annual CWWA Conference & Exhibition on St Thomas – located in the United States Virgin Islands during October of 2009.

In what is one of the biggest events of the water business sector in the region, The Caribbean Water & Wastewater Association brings together many of the Caribbean's various department managers and employees, private sector consultants and development bank representatives to present informative papers on recent and current projects. They rely on not only their successes, but also the difficulties encountered and the lessons learned.

In addition to the many presentations offered in the tandem conference hall venue, the exhibition area provides the opportunity to display and promote the latest products.

It provides us the opportunity to demonstrate how we structure our efforts - to meet the needs and expectations of the end users – our customers.

We have created a team - built on the existing network of AVK Caribbean local representatives/distributors. We added a broad-based package of other associated waterworks materials. We included our customer advantage programs to make the offering more beneficial to the client. To complete the team, we added a logistics partner – Kestrel Liner Agencies, LLC.

Our Caribbean team is ready to go!



George Smith and Anita Christian, HD Supply Waterworks, Ltd. Kim Ludvigsen, AVK Overseas



Installation photos from all over the world



An AVK Victoria hydrant in a square in Trondheim Kommune, Norway - sent in by Sverre Tage Austmo, AVK Norge AS



Karamay Petroleum Sewage Plant of Xinjiang Autonomous Region, west of China - sent in by Earnest Hu, AVK Valves (Shanghai) Co., Ltd.



Project in Slovakia, series 06/30 gate valves, series 04 extension spindels and series 35 hydrant - sent in by Libor Tóth, Slovakia



A Glenfield & Kennedy Self Closing Valve kept at the (MOSI) Manchester Museum of Science and Industry.

This valve was installed around 1885 to control the flow of water along the Thirlmere-Manchester water channel. It had a bitumen coating to protect the valve body buried below the ground. Sent in by Royce Paul, AVK Middle East F Z E, Dubai, UAE



AVK gas valves in a gas works, sent in by Reinhold Rudnik, AVK Mittelmann Armaturen GmbH



Karamay Petroleum Sewage Plant of Xinjiang Autonomous Region, west of China sent in by Earnest Hu, AVK Valves (Shanghai) Co., Ltd.

Competition



We are happy to announce that the winners of interlink no. 34 are:

- Dina Friberg, Citec Engineering Oy Ab
- Cody Bemis, Australia Pacific
- Lilei, AVK Anhui

Gifts are on their way.

The correct answer is:
An AVK support bush

New competition:

Which product does this selected enlargement show?

Send an e-mail with the correct answer and write down which gift you want to receive - if you win.

E-mail to: adl@avk.dk



Stelton Check-inn bag



Blue vacuum jug from Stelton.



Corkscrew from Stelton.

