

# AVR interlink

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## Editorial

As I have mentioned from time to time, AVK is in a rapid development; and has been so for many years. During the past 40 years, AVK has grown significantly from a small Danish business to an international group of companies. AVK has become a strong name with good and long-lasting products.

Still, time has come to step up our business to remain competitive in a world full of challenges. This edition of Interlink is full of good stories about AVK products having made a difference. These stories are so important for us to tell because they are the essence of what AVK is able to offer. At AVK we focus on the end-users by offering them products of high functionality and long service life.

And now we have set ourselves new ambitious goals. We want to deliver more than just products. We want to deliver solutions. We want to give our customers a service not only meeting their expectations but surpassing them. We want to make it easy to do business with AVK.

So in future, our customers may expect more from AVK.

I wish all our readers a Merry Christmas and a Happy New Year.

Michael Ramlau-Hansen



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### Front page picture

Her Royal Highness the Queen of Denmark visits AVK



# Water Industry Alliance – Chairman's award 2012



The Water Industry Alliance was formed in 1998 and consists of a cluster of almost 180 water-related industries in South Australia representing over \$500 million of exports from the state each year. Members include international water companies, utilities, national- and well-established local companies. The association has strong links to both state and federal government agencies and aims to promote and expand the export of water related products and services from South Australia (SA).

**AVK is a founding member of the Water Industry Alliance.**

The Chairman's award is presented each year to a person deemed to have made a major contribution to the water industry either through actions

or the implementation of water-related programs of the highest significance to the community at large.

Karsten Pedersen was honoured to receive the 2012 Chairman's award at a ceremony held at the Adelaide Exhibition Centre on 28 June.

In presentation of the award the Chairman noted that:

*"Having set up in SA during 1997 as part of the economic development initiatives and on the strength of a very modest SA water contract, AVK have built a substantial regional business based at their state of the art SA manufacturing and distribution centre, and is now a significant business contributing to the South Australian water community and economy.*

*Karsten brings a global quality to the SA water industry with European and American experience, and has developed an example of "best in class" in terms of the AVK operation here in Adelaide."*

Although this award is directly in recognition of Karsten's efforts in building the South Australian business, AVK Group chairman Niels Kjær was also acknowledged for his continued support to the water industry in SA.

Unfortunately, Karsten Pedersen was in Europe at the time of the award presentations, so the award was accepted on his behalf by Kevin Jamie.

# Her Royal Highness the Queen of Denmark visits AVK

The Danish royal couple visited Skanderborg municipality on 2 September 2012 and on this occasion, AVK was asked to host the royal reception and the official lunch for 65 people.

Many people had lined up outside AVK to catch a glimpse of the royal couple who were prominently received with musical accompaniment, cheers from the flag-waving crowd, and an official welcome from city councilors, the Kjær family, and the AVK board members.



Niels Aage Kjær's seven-year-old granddaughter Mathilde handed HRH the Queen of Denmark a bouquet of flowers upon her arrival at AVK.





The visit at AVK also included a tour of AVK's art collection which contains some of HRH the prince consort's sculptural works.

# AVK Maghreb

By Guillaume Vion, Head of AVK Representative Office in Casablanca

In 2010 AVK France S.A.S. decided to set up a representative office in Casablanca to cover Morocco, Algeria and Tunisia. With this office, AVK can support its customers in the Maghreb region with a closer approach and promote the AVK name and quality.

## Life in Morocco

Morocco – officially the Kingdom of Morocco - is located in North Africa. It is part of the Maghreb region along with Tunisia, Algeria, Mauritania and Libya. These countries share cultural, historical and linguistic ties. Morocco has a population of approx. 35 million and an area of 710,850 km<sup>2</sup>. Most Moroccans speak either Moroccan Arabic or Berber as a mother tongue, but in the major cities most of the population also speak French.

Ethnically, Morocco is a diverse country with a rich culture and different civilizations. Over the years, many different people have found their way to Morocco. People have come from the east (Phoenicians, Carthaginians, Jews and Arabs), from the south (Sub-Saharan Africans) and from the north (Romans, Vandals, Andalusian people (including Moors and Jews)). All these civilizations have had an impact on the social structure of Morocco. They all have different beliefs, from paganism, Judaism and Christianity to Islam, and they all live in peace with their diversities.

Family is the most important element of Moroccan life and it plays an important role in all social relations. The individual is always subordinate to the family. The Moroccans' most cherished possession is their honour and dignity which is reflected not only in themselves but in all members of their family. Even though most of the population is poor, people here

are very generous. They will do their utmost to help you as much as possible. It is very common to be invited for tea. Even though you do not know a person very well, you take the time to greet each other and talk about family and other general topics. Once a relationship has developed, it is common to kiss on both cheeks.

Morocco is a country with contrasts. Although the standard of living has increased, there are still very poor people living in Morocco. There is a world of difference between the rich and the poor people which among others appear when you see a poor man in downtown Casablanca riding his donkey while a luxurious car is driving by.

Driving your car in Casablanca is quite an experience. Thanks to the improvement of living standards more and more people acquire a car. However, the infrastructure has not been developed as the number of

cars has increased. Therefore, traffic is chaotic and you get caught in traffic jams very easily even on short distances.

On one hand, Morocco is closely related to France with their common history and the French language, but on the other hand, Morocco is very different from the French culture. Before I moved to Casablanca, I visited the country on several occasions on business trips and vacations. Therefore, I was a bit familiar with the country. Still, I had yet to face the Moroccan administration. To set up an AVK office in Casablanca, I had to handle a lot of administrative paperwork and here I really got to understand the meaning of the saying "patience is a virtue". And when I had to get my resident card, I was standing in line for two hours only then to be informed that I should go to the French consulate and then come back with a signature – a signature which was not even required at first!







### Meeting the customer

The concept of time does not exist in Africa as in Europe. Here, time is not something you run out of. Here, time is lived by the expression: “Humans invented watches but God created time”.

In Europe we might say that we “run out of time”, but people in Africa have a different attitude to time – also at business meetings. People are often late for meetings, and they also have an “open door” policy during meetings which means that you may experience frequent interruptions. Some may also enter a meeting and start a discussion, and it is considered impolite to try and bring the conversation back to the original topic until the person has left the meeting room. When you tender for a project, decisions are made at a different pace as in Europe and you are unable to rush the process as this would be considered an insult.

In Morocco it is much more important who you know than what you know, and thus it is very useful to network with a number of contacts who can help you find your way through the intricate Moroccan bureaucracy.

### The AVK office

We set up the AVK representative office in Casablanca two years ago and we have struggled to brand the AVK name. Now, we have become known for our quality and reliability within the water segment. Our main obstacle is competing with “exotic” materials of very low quality at a very low price. But we keep making an effort at seminars and meetings to promote our quality and the warranty we provide on our products. Even though things are changing little by little, prices remain a very important factor in this region. Still, we now see requirements for certificates etc. in tenders.

The local waterworks have also discovered AVK and what is behind our name: a brand synonym with quality and reliability. It is a big challenge for AVK to be an actor in this region, but the rapid development of the Algerian economy and a growing urban population require new and improved facilities for drinking water and sewage systems. Important projects in the region are already scheduled for the coming years, and AVK wants to take part.

# Non-slam check valve succeeds by keeping it simple

By Stuart Montgomery, AVK UK Market Sector Manager, wastewater treatment, e-mail: [stmo@avkuk.co.uk](mailto:stmo@avkuk.co.uk)

Water hammer is a common problem in supply systems whenever the steady state condition of the flow is interrupted by sudden changes such as pump stoppage or start-up. If it is not carefully controlled, the phenomenon can cause costly damage to pump equipment and pipe work, significantly increasing on-going maintenance and replacement costs – something that today's hard-pressed water industry is keen to avoid more than ever before.

Preventing water hammer depends crucially on closing the valves in the vicinity of the pump as rapidly as possible after the forward motion of the flow ceases; and added to that is the need to ensure that the valve door does not just slam onto the seat. These twin demands of fast reaction and controlled closure constitute a delicate

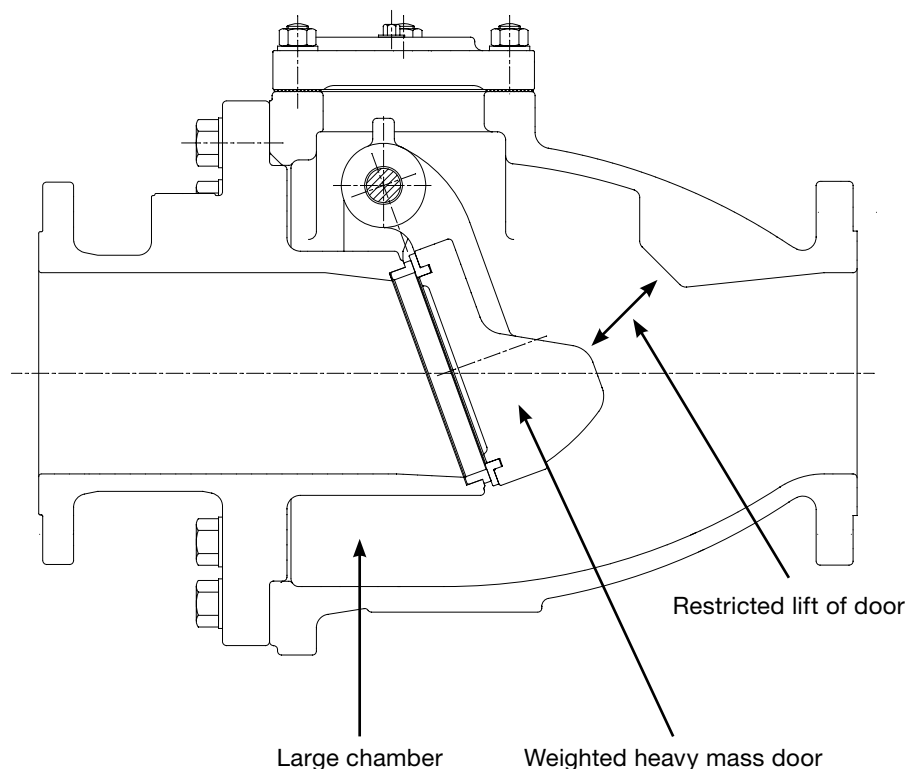
balancing act that is a challenge for any valve design engineer.

In cases where the water flow decelerates at a low to moderate speed, such as single pump or gravity systems with low to moderate branch velocities, slamming can very often be prevented by installing a conventional swing check valve with an external lever and weight. However, in circumstances of potentially rapid flow reversal - especially where multi-pump sets deliver into a common main – a more sophisticated approach is called for.

Determined to find a solution that really worked, Glenfield Valves put theory and trial-and-error aside and studied what really happens in the pipeline when water hammer occurs. In its hydraulics laboratory (at the time the biggest independent facility

of its kind in Europe), Glenfield Valves built an elaborate piping system in which severe forward and return flow phenomena could be reproduced in check valves under actual flow conditions.

Analysis of the experimental data generated in this manner clearly showed the requirements that must be met to achieve non-slam closure and from these, the company evolved its series 641 recoil non-slam check valve, which has been shown in service to reduce water hammer pressures caused by check valve slamming by up to 97 percent. This holds good with branch velocities up to 3 m/sec, and in conditions of less severity this may be increased to 5 m/sec, compared to the 2-2.5 m/sec limitation on standard swing check valves.





Today, AVK has similar hydraulic testing facilities where products are tested to ensure that they are fit for the application required.

Unlike other products that endeavour to prevent slamming, the series 641 does not accelerate closure by resorting to springs, levers, dashpots, or other extraneous equipment, all of which needs maintenance and contributes to the likelihood of failure. Everything necessary for non-slam operation has been included in the simple and elegant design of the recoil valve itself, from the shape of the body to the design of the door.

Surprisingly, the valve – available today as the 641/11 and 641/21 in sizes from DN100 to DN1600 - is by no means new. Glenfield's design was developed

more than 70 years ago, and there are many examples that were installed soon after which are still giving reliable service today; in fact, some have exceeded their minimum design life of 25 years three times over. Compare that with some (usually cheaper) present-day products purporting to do the same job that are failing well within the expected 25 years.

Sometimes, it seems, yesterday's solutions are the still the best option today- and it's worth paying more for them too.

**For example....**

Anglian Water's Household Water Treatment Works near Norwich is one of the many locations where recoil check valves made to Glenfield's unique design have given exceptionally long, trouble-free service – and have

now been succeeded by present-day AVK equivalents.

When the valves on the surface pumps at the works' Thorpe pumping station were designated for replacement, they were identified as being of Glenfield manufacture and are thought to have been the originals supplied when the station was built 50 years ago.

The order – from Anglian Water and the @One Alliance delivery team – also included flanged specials and fittings manufactured by AVK Syddal, demonstrating AVK UK's ability as a framework supplier to find a 'one stop shop' solution.



# Open House: New production line at AVK Nederland BV

*By Hendrik Kwakkel, General Manager, AVK Nederland BV*

Open House at the new production line at AVK Nederland BV, location Schorweg 1 – Vaassen

On 8 March 2012 AVK Nederland BV opened their doors for customers, suppliers, family and friends from our industrial area to have a look at Rewag's completely changed

manufacturing hall. A lot of visitors came that day. It was good to see that all our guests (300 people) were interested in our working method concerning manufacturing and assembling of stainless steel repair clamps.

The production line is completely

automated with a welding robot, coil cutter line, TIG and MIG welding machinery, laser engrave machine, internal transport system etc.

Right now AVK Nederland is fully prepared for the future. We can offer our customer better prices and faster deliveries. Please challenge us.





# AVK participates in Water Africa 2012

By Stein Schierenbeck, Area Sales Manager, AVK International A/S

Africa as a continent and a market enjoys a lot of focus and attention from AVK. The continent hosts around 13 % of the world's population, but it only contributes with some 5 % of the world GDP. Some African countries though see increases in their GDP of approx. 7-8 %, which is far better than what most of the world can claim these days. Africa is rich on natural resources, so it is regarded a continent with untapped potentials because there are huge needs for infrastructural development, under which water supply, water distribution and last but not least water and wastewater treatment are included.

To continue our promotion of AVK in Africa, we recently participated in WATER AFRICA.

WATER AFRICA is aimed at water supply, irrigation and treatment markets in Africa, and the exhibition is held every second year in Ghana and Nigeria by turns. This year, it was held in Abuja in Nigeria from 23 - 25 May 2012.

Nigeria has the largest economy on the African continent and the biggest population (in 2012 approx 162m).

Nigeria is a member of ECOWACS which is a trade union in the central and western sector of Africa hosting a number of countries with good economic development.

AVK's history in Nigeria dates back to some Glenfield supplies in the 1980s.

From 2008 AVK International A/S has traded actively in Nigeria, and we now have a handful of local companies representing us on various markets. AVK products find their way to the markets through a number of international contractors, and by direct purchasing from local companies or local waterworks.

The exhibition was held in the modern Abuja International Conference Centre. There were approx. 70 exhibitors of which 25 % were Chinese companies. The remaining exhibitors came from Europe, Middle East and a few from USA. On the valve side, there was only one of our international competitors present, along with a new and unknown Chinese valve manufacturer. AVK participated together with our local representative, Frank Whyte (FRAWB Nigeria Ltd), who services not only the capital city and the government

water bodies, but also the central and northern regions of Nigeria (Nigeria is a large country with 36 states, and it takes more than two hours to go by air from one end of the country to the other).

Our stand was conveniently located on a corner close to the entry of the exhibition, which meant that almost all visitors to the show came passing by our stand.

AVK is already well introduced to and known by the federal and state water bodies as well by all the major contractors in the region. And thus our participation served as a confirmation of our presence in the market. The federal water authority (Federal Minister of Water Resources – FMWR) along with some state water authorities sponsored the exhibition, and many of their representatives came to visit us at our stand. The Minister of Water Resources and her secretary visited the exhibition, and they also paid a visit to our stand where they took their time to hear about AVK's activities in Nigeria.

All in all, I would say that this participation was well worth the time and money, and it undoubtedly cemented AVK's position as a major player in the water business in Nigeria.



*The Minister of Water Resources  
Mrs. R. Ochepe with her Permanent  
Secretary, Mr Amb. G. Igal.*

# Mousehold

By Stuart Montgomery, AVK UK Market Sector Manager, wastewater treatment, e-mail: stmo@avkuk.co.uk

AVK UK recently secured an order from Anglian Water and the @One Alliance delivery team for the above site located near Norwich. The order, although for a small number of recoil valves actually included flanged specials and fittings manufactured by AVK Syddal in Hyde. AVK UK is a framework supplier to Anglian Water and this contract clearly demonstrated the abilities of AVK UK to find a solution and deliver a 'one stop shop'.

## The Project

Anglian Water is investing over £300 million maintaining its water treatment works, water towers and pumping stations. The work can vary from relatively minor work such as replacing a pump that has reached the end of its life, to a major refurbishment of a treatment work.

In addition to this, the population in the Anglian water region, despite the recent downturn in the housing market, is growing fast and this increases the quantity of the water that has to be treated and supplied.

The contract was for the replacement of valves and fittings to replace existing kit on the surface pumps at

Thorpe PS. The original valves had come to the end of their asset life and were causing operational issues. (see image of the original 1960's Glenfield Valves).

The valves were identified as being of Glenfield manufacture and were thought to have been the original valves supplied around 1960's at the time of original build project. The Glenfield name synonymous with traditional British valve manufacturing heritage has direct lineage to AVK UK today. Glenfield valves, Kilmarnock, Scotland was established in 1852 and still going strong was acquired by AVK UK in 2001.

The Recoil Check Valve was developed in Glenfield's own hydraulics laboratory (at the time of being built, was the largest independent lab in Europe) from experimental data. An elaborate piping system was installed in which severe forward and return flow phenomena could be reproduced in check valves under actual flow conditions. Analysis of the test data provided a clear guide to the determination of the essential requirements for non-slam closure for the development of the Recoil Check Valve.

The Glenfield Recoil check valve does not need springs, levers, dashpots, or other extraneous equipment to prevent slam. Every device necessary for non-slam operation has been included in the design of the valve, from the shape of the valve body to the design of the door. This means that there is no need for any unnecessary, high maintenance equipment to provide effective non-slam closure. The simple and elegant design of the valve itself is all that is required to prevent slamming.

## The Specification – Recoil valves

Many of AVK UK current designed valves have pedigrees that can be traced directly back to the original designs by Glenfield, no less demonstrated by the AVK S641/11 recoil non slam valve.

Many have sought to imitate the success of this product, but few have been able to capture the inherent designs that allow this product to offer fully non slam capabilities time after time. One aspect that allowed the original recoil valve to be still fully operational after more than 50 years service was the attention to detail in design. This is also true of the AVK UK S641/11 valves with a proven



The original 1960's Glenfield Valves





performance and unlike other 'non slam type valves' has no requirement for mechanical fixation between valve door and valve shaft. This is achieved by means of close tolerance machining avoids any potential fixing failures. This allows longevity of service and reliability. Operation within the set design capabilities will deliver a design life of 25 years minimum.

#### **The Fittings**

AVK UK was able to utilise the many centres of excellence and manufacturing facilities within the AVK world wide group in order to manufacture the products for this contract. Not least was the recently established AVK Syddal organisation in Hyde near Manchester UK, where a full range of standard and dedicated fittings up to 2200MM diameter are manufactured and sold.

AVK UK subsequently was able to deliver the valves as well as the change flanges and flanged specials to suit the existing dimensions. All parts were supplied with WRAS approved coatings and components for use with potable water.

AVK UK was able to deliver a technically bespoke solution, being involved at the early stages of this project presented an opportunity to demonstrate our capabilities in delivering a 'one stop shop' solution. AVK UK acknowledges that without Anglian Water's willingness to involve AVK UK, the solution delivered may not have followed this design. AVK UK manufactures and distributes a broad range of products and services for the water and wastewater treatment segments.

Article and photographs published with the kind permission of Anglian Water and the @ one Alliance teams.

# PE 100 ball valves for new recreation park

By Ilka Keilen, Marketing Coordinator, AVK Mittelmann Armaturen GmbH

A new recreation park is being built directly at the shores of the idyllic lake Bostal in the Saarland province in Germany. The project started in August 2011, and the installation of the service lines was initiated this March.

AVK Mittelmann Armaturen supplies 20 PE100 ball valves for the gas service lines in total. The main gas service line is a DA110, SDR 11, PE pipe line. The DA 110 ball valves are used to restrict the different zones. The DA63

ball valves are installed in the service supply lines.

The official opening of the park is scheduled for spring 2013.



Projektgesellschaft Bostalsee mbH

## New tapping saddle from JCH

By Ib Thygesen, Sales Manager, JCH

JCH has supplied high quality ball valves for water supply plants since 1970. The main part is used as either service valves or tapping valves.

Based on input from our customers and in cooperation with AVK International A/S, JCH has now developed a new series of tapping saddles with a matching ball valve preassembled and tested at JCH's production facilities.

This new series has a material composition of high quality and a solid construction. The tapping saddle ensures a high quality level combined with a reduced on-site installation time. A periodic operation is not required to uphold the functionality of the tapping saddle. The ball valve construction from JCH is unique for drilling and tapping even under pressure and the risk of damage during installation is kept to a minimum.

Ball valves from JCH are delivered with the well-known AVK bonnet and thus, the AVK extension spindles and street covers are applicable.

Product program:

Series 343-098 for PVC and PE pipe systems

Series 343-099 for ductile and steel pipe systems

For more information: [www.jchansen.dk](http://www.jchansen.dk)



Series 343-098 for PVC and PE pipe systems



Series 343-099 for ductile and steel pipe systems



# AVK Mittelmann Armaturen delivers one-stop valve packages for new football stadium

*By Ilka Keilen, Marketing Coordinator, AVK Mittelmann Armaturen GmbH*

The new football stadium for Rot-Weiß-Essen, which is situated quite close to the Wülfrath factory, was officially inaugurated in August 2012. The official opening celebrated the completion of construction phase 5 (a series of 8 construction phases in total).

The AVK Mittelmann Armaturen above ground hydrants with drop-down cover in the club's red and white colours come across impressively when you enter the stadium. Next, you see the AVK plastic surface boxes, covering each one of them an EKB/EKB F5 flanged gate valve with series 04 extension spindles and AVK plastic support tiles. Of course, each hydrant is also equipped with the AVK Flexdrain drainage package.

This has been a good example of selling valve systems at one stop. The customer is an engineering company in charge of planning the HVAC equipment, and they clearly

benefitted from this one-stop-shopping. In particular, the efforts for technical support have been significantly reduced. The positive experience with support, service and order processing at AVK Mittelmann Armaturen made the new customer place yet another order for a DN 150 pressure reducing valve for the football stadium. This valve was required in order to reduce the higher incoming pressure from the main line to the lower pressured PE 100 service line. All hydrants and valves passed the obligatory tests in the first run.

Regular football matches have been resumed at the new stadium following the official opening. When the new stadium is complete, it will hold up to 20,650 people, including standing room for approx. 9,000 spectators.



# Bryan Donkin Valves Ltd wins the Derbyshire Best Business Environment Award 2012

On Friday 28 September Derbyshire's best businesses were celebrated at an awards ceremony at the Roundhouse in Derby. The evening saw some of Derbyshire's most innovative and successful companies pick up awards in a number of categories. Despite a high calibre of entries from range of companies and the impressive standard of two other shortlisted finalists, it was Bryan Donkin Valves Ltd who picked up the Environment Award sponsored and judged by Toyota Manufacturing (UK) Ltd.

Upon acceptance of the award Fran Brody, Managing Director revealed *"I am delighted to be accepting this award on behalf of Bryan Donkin Valves Ltd. Winning this award is a fantastic achievement and testament to the hard work employees have put into our carbon reducing projects. Since 2006 BDVL has been working to reduce emissions and this task has been set about with fantastic enthusiasm by all employees through a number of projects - from energy awareness and efficient technologies on the factory floor to the innovative design projects which save hundreds of tonnes of carbon dioxide emissions each year. BDVL looks forward to the challenge of reducing carbon emissions in future years with a number of exciting projects already planned"*.

The application submitted by Bryan Donkin Valves Ltd detailed the environmental credentials of the efficient new-build factory at Staveley, the impressive work to monitor scope 1, 2 and 3 carbon emissions since 2007, innovative product redesign

to lower life cycle carbon emissions, and an impressive reduction of waste to landfill. In addition, Bryan Donkin Valves Ltd is able to demonstrate environmental communications to employees and stakeholders through a number of mediums including the website ([www.avkuk.co.uk/avkenvironment](http://www.avkuk.co.uk/avkenvironment)).

Additionally, Bryan Donkin Valves has reduced electricity usage for four consecutive years. The dedicated, continual environmental improvement strategy actively involves all employees and is openly shared with suppliers and customers. Both Bryan Donkin Valves and AVK UK are certified to the CLEEAR standard (a Carbon Trust equivalent standard) for carbon emission reductions.

Speaking after the event, Matthew Jowsey, Carbon and Environmental co-ordinator disclosed *"Winning this award is a credit to everyone within the company. The application showed fantastic work in all areas of the AVK Vision4 approach; this is a focus on quality, reliability, innovation and a commitment to reduce environmental impact. Playing an important role in our application for this award was the innovation shown by the technical team to review the design of products. Through altering product designs and reviewing the materials used we have been able to reduce life cycle emissions significantly. In addition, the superior quality of AVK valves leads to reduced leakage for customers and therefore saves cost, minimises disruption and reduces energy usage and therefore lessens the impact upon the environment."*

Bryan Donkin Valves Ltd continues to use the Carbon Disclosure Project to benchmark against other environmentally aware companies and use the results to identify areas in which improvements could be made or opportunities may arise as the ongoing transition to becoming a low carbon manufacturing company continues.



# A Glenfield hydrant in captivity

Sent in by Dr. Anand Sethi, Nordic Investment Bank, Dagshai, India.

During the past few years, I have been deeply involved in resurrecting some of the old historical places and monuments in the small cantonment Dagshai, which is a small Indian military station in the Himalayas. With assistance from the local brigade of the Indian Army, we have cleaned out an old dilapidated jail and have since converted it into a jail museum. This is a truly historical jail which has

links to the Irish Mutiny and the Indian independence movement (Mahatma Gandhi actually stayed in the jail along with the incarcerated Irish soldiers).

While cleaning up the premises in the front courtyard, I found what clearly must be an old fire hydrant from Glenfield, Kilmarnock. There is no date on the hydrant but since the jail was set up in 1850, the hydrant must

date back to the second half of the 19th century.

We have scraped and cleaned the hydrant and put a first coat of anti rust, and it is now more or less operational as you may see from the photo with the top cap taken off.



# AVK Plast A/S - what can these experts in injection

By: Henrik Lund-Olesen – Managing Director, AVK Plast A/S, Denmark.



## AVK Plast A/S

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### Facts (2012):

Number of Employees: ~45  
Buildings: ~9100 m<sup>2</sup>  
Turnover: ~60 m DKK (~8 m €)  
IM machines: 40 (30-1800T)  
Products: ~1500

### Focus on custom moulding

AVK Plast A/S specializes in plastic injection moulding and produces a wide range of various products. It is AVK Plast's ambition to become one of the leading suppliers in fine workmanship and know-how, combined with modern technology and automated processes.

AVK Plast A/S became part of the AVK Group as of April 2010. Where AVK Plastics and AVK Syntec focus mainly on manufacturing their own product ranges, AVK Plast has put focus on custom moulding jobs.

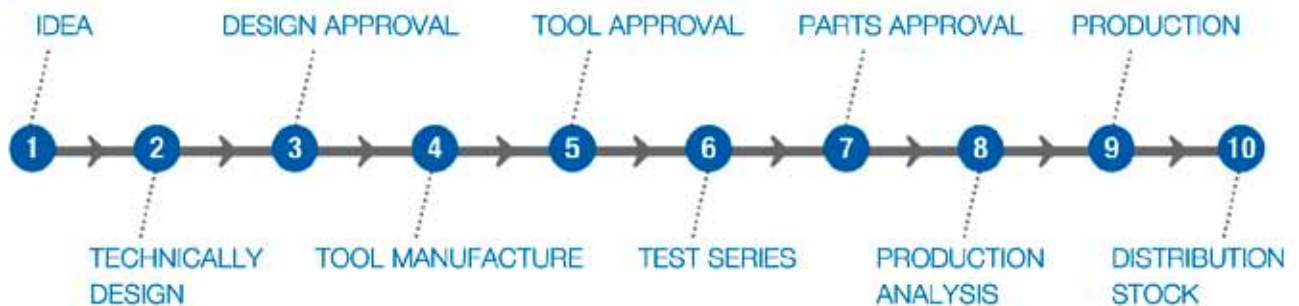
The working procedures are carried out in accordance with the LEAN and Six Sigma principles and the strategy of the organization is to be innovative. AVK Plast A/S is able to adjust quickly in order to match the actual market requirements in their changing environment.

The end product results from a continually evolving production process, in which AVK Plast A/S is a professional and dynamic sparring partner to its customers. AVK Plast A/S is actively present during each part of the development phase, and qualified staff is prepared to respond to any question, from outline to the final product. Drawings supplied by customers are always met with professional advice as to function, raw materials and tools.

### Development of tools

To meet the high demands in quality and flexibility, AVK Plast A/S has its own development department and AVK Plast A/S strives to develop and produce tools in accordance with customer specifications.

Maintenance and repairs are carried out by the section staff during the daily production. This ensures



AVK Plast's fixed production procedures





# Injection moulding do for you?

maximum operation conditions and minimizes delays caused by operation breakdowns.

## Quality control

AVK Plast A/S gives quality control and systematic handling high priority. AVK Plast A/S operates with a number of parameters which make it possible to monitor that all units comply with national and international standards as well as customers' quality requirements.

AVK Plast A/S produces both low cost products with minor demands to accuracy and finish, and advanced precision products. PDCA (Plan Do Check Action) is one of the elements in the planning of quality control. AVK Plast A/S is ISO 9001:2008 and ISO 14001:2004 certified.

## Production line

The comprehensive machinery includes one of the largest injection

moulding machines in Scandinavia. This machine has a clamping pressure of 1800 tonnes and covers a weight of components up to 17 kg. In total, forty injection moulding machines are running the daily production.

Most of the machines are equipped with process-operated robots, capable of producing both small and large series. In accordance with customer needs, our assembly department carries out specific mechanical and electro technical orders.

In order to obtain a solid expertise of the various methods and processes, the plant is operated by personnel who rotate in regular turns in production. This procedure ensures maximum flexibility at all times.

## What can we do for you?

Our technical, all-round qualified staff, the company flexibility and adaptability enable AVK Plast A/S to undertake

quick adjustments in order to meet all customer requirements.

AVK Plast A/S focuses on custom moulding jobs to AVK sister companies in particular. It would be much appreciated if you would consider AVK Plast A/S as your first choice partner for development and supplies of any synthetic products or components you may need.

So, in case of enquiries for currently outsourced parts or components, which you wish to convert into synthetic parts, please contact one of the below mentioned contact persons:

## Managing Director

Henrik Lund-Olesen - hlo@avkplast.dk

## Sales & Purchase Director

Poul Erik Schmidt - pe@avkplast.dk



# Syddal and AVK join forces

In May this year, AVK furthered its strategy to grow its UK fittings business by acquiring Syddal Engineering, which manufactures repair fittings, tees and end caps for the gas and water utility markets.

There are clear similarities between Syddal's activities and the product and service portfolio of AVK Fittings, so it is no surprise that the two companies have been brought together in a single organisation. The combined business has been re-named AVK Syddal to reflect the strengths of both brands.

All of Syddal's manufacturing operations, including some of its commercial and operating staff were

transferred to AVK Syddal in the three months following the acquisition.

*"The fact that the two companies were within two miles of each other on the outskirts of Manchester made the transfer much easier than it might otherwise have been,"* commented AVK Syddal managing director Fran Brody.

*"From the customer's point of view, both companies have good reputations with their respective customer bases. The acquisition has brought some new products into the AVK portfolio, and it has created opportunities for us to increase our production and buying efficiencies."*



AVK series 34/00 post indicators for fire protection waiting to be installed under pressure at FM Logistic - Petresti, Romania.



# Emergency gas fitting supply to Copenhagen, Denmark

At 7 pm on Thursday 7 June 2012 AVK Syddal was contacted by the sales manager at AVK Danmark A/S. The sales manager in Denmark had just received an emergency call from Copenhagen Energy, the utility responsible for the gas infrastructure in Denmark's capital city.

A large DN 1100 cast iron gas main had ruptured catastrophically causing a gas escape, and Copenhagen Energy had to react immediately to control the situation. Unfortunately, that meant nearly 400,000 homes and businesses were left without a supply so it was imperative to re-connect them as quickly as possible.

On exposing and studying the damaged pipe, engineers decided that the best solution was to reduce the main down to a DN 600 in PE, and AVK Syddal was asked to provide a solution on an emergency basis.

Calling on their 130 years of collective experience of manufacturing and supplying large diameter gas fittings worldwide, AVK Syddal's engineers designed a fitting

based around the sealing system of a fabricated universal end cap for the DN 1100 end, whilst connection to the DN 600 section was by means of an extended 500 mm long body with a concentrically mounted DN 600 PN 16 flange welded at the back.

The design drawings were sent to Denmark and approved by the client at 10 am on Friday morning and fabrication started immediately. Just seven hours later, the completed fitting was loaded into a van for shipment to Copenhagen (because of customs clearance procedures, it was quicker to drive the fitting to Denmark than it was to fly it!).

By 6 pm the following evening – four hours earlier than promised - the fitting was on site; it was immediately installed and then tested successfully. The phone calls and emails of appreciation from the client and their contactors followed shortly after.



# Sales Seminar, Global and Regional 6 - 8 June 2012

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

It has become an established tradition that the first week of June is reserved for AVK conferences. This year, we held two different conferences from 6 – 8 June 2012.

We started with a European Sales Conference on 6 June and continued

with the Global Management Conference on 7 – 8 June.

In connection with the European Sales Conference, Morten S. Nielsen, Group Director of Continental Europe and Northern Africa, awarded prizes to four managing directors for an excellent performance:



Terje Gullaksen, AVK Norge AS



Frank Lieser,  
AVK Mittellmann Armaturen GmbH



Allan Povlsen, Vatech 200



Dirk Jansegers, AVK Belgium N.V.





At the Global Management Conference, the managing directors from all AVK companies around the world were gathered to discuss new activities and plans for the future. The picture bears witness to the fact that AVK has indeed become a large and worldwide group of companies.

This year's main topic at the Global Management Conference was the new and exciting initiative of corporate branding. We are still working on the internal preparations of our new branding concept and hope to be able to introduce it collectively to our markets in the beginning of 2013





# Repair work in Prostějov

By Petr Kuzela, Managing Director, AVK VOD-KA a.s.

In order to retain our customers, we need to stand out in every detail. Price, quality and technical parameters are imperative for our customers, but the delivery time is also extremely important.

AVK VOD-KA a.s. offers customers a standard delivery the following day anywhere in the Czech Republic, and in case of emergencies, we also offer a 24/7 product delivery service. However, there are situations, where these delivery terms are not even enough, and the customer requires a faster delivery time than can be offered by car.

On Friday 22 June 2012 in the afternoon, an accident happened on a cast iron pipe DN 400 supplying water for 13,000 people in 17 small cities around the city Prostějov.

The local waterworks immediately started repair works on the broken water pipeline, but soon it was clear to them that the only solution to a fast repair was with the suitable repair fittings. The only company immediately offering a suitable

repair clamp was AVK VOD-KA; however, the delivery time by the car was too long for the customer. Therefore, both companies quickly arranged another solution – in order to shorten the delivery time, the repair clamp was delivered to the customer by plane!

The repair clamp was subsequently delivered to the nearest airport, where a flight sports club took care of the transport. With this original solution, the delivery time was reduced to only 3 hours. The waterworks mentioned this help and willingness of AVK VOD-KA in an article in the local newspaper, and at AVK VOD-KA a.s. we have now extended our services to also including intrastate airfreight in case of emergencies.



# The 29th annual Slovak Craftability competition of water staff skills

By Denisa Gajlíková, Sales and Marketing Department AQUAGAS, spol. s.r.o.

The traditional Slovak Craftability competition was held from 5 – 7 September 2012 at the beautiful and historically renewed city hall of the town Bardejov in the north-eastern part of Slovakia.

This traditional event goes back 29 years, and the purpose is to share practical knowledge, experience and new ways of working, as well as discussing important issues such as improvement of the businesses and services. The East Slovakian waterworks organization, VVS Košice a.s. organized the event and welcomed contestants and guests in style.

AVK International A/S and AQUAGAS spol. s.r.o. (AVK distributor in Slovakia) were once again honoured to be sponsors. This gave us an opportunity to meet with our customers and other important relations.

Area Sales Manager Mikael Baltzer Hansen, AVK International A/S attended the event along with AQUAGAS, spol. s.r.o. represented by Managing Director Peter Chalás, Marián Potrok, Sales and Marketing Manager, Marián Lazár, Sales Manager for Eastern Slovakia and Sales Representative Marek Šidlovský.

The winner of the competition was TVS, a.s. (Trenčianska vodohospodárska spoločnosť) with whom AQUAGAS, spol. s.r.o. has close cooperation.

The event was a great opportunity for us to show AVK products in Slovakia, and we would like to express our gratitude to everyone who participated in this ceremony.

→ The event was attended by 10 teams that competed in four different disciplines, such as mounting valves on a pipeline within the shortest time or searching for defects in pipelines.

↓ The competition was opened by Minister of Environment SR Ing. Peter Žiga together with General Director of VVS Košice Ing. Stanislav Hreha, Manufacturing and Technical Director VVS Košice Rudolf Kočiško, Mayor of Bardejov MuDr. Boris Hanuščák, State Secretary MŽP SR Ing. Vojtech Ferenc, PhD., General Director ZSVS Jozef Tarič and Director of VVS Košice branch in Bardejov Mgr. Vladimír Novák.





# Rebuilding of a main water pumping station in Poznan

By Mirosław Kopyta, AVK Armadan Ltd.

At AVK we want to deliver more than just products. We want to deliver solutions and we want to be a serious partner in connection with installation of new supply systems or rebuilding of existing ones; like the below example of the redesigning and rebuilding of a main water pumping station in the Aquanet waterworks in Poznan.

AVK Armadan Sp. z o.o. was contacted by the Polish contractor, Wuprinz in Poznan and has been part of the project right from the beginning when the first drawings of the redesigning were made. In such projects, it is a challenge to keep within the physical surroundings and for that purpose, the AVK dismantling joints series 265 are very effective. The dismantling joints secure that the built-in dimensions are met. The dismantling joints also compensate for any difference in dimensions in case the old valves have different built-in lengths than the valves we produce today.

AVK Armadan Sp. z o.o. sold following products for this project:

- 6 pcs. series 75/45, WW butterfly valves with integral by-passes DN1000, with Auma actuators,
- 8 pcs. series 75/42, WW butterfly valves DN500, with Auma actuators,
- 4 pcs. series 702/10, CYL knife gate valves DN500, WP10,
- 4 pcs. check valves with double levers and hydraulic dampers DN500,
- 10 pcs. series 265 DN1000,
- 4 pcs. series 701/50, air valves DN150,
- 4 pcs. series 701/42 OWI, air valves DN100 one-way-inn,
- 20 pcs. series 06/30, gate valves DN 80-150.









# AVK products used for projects in drinking water treatment plants in Romania

*By Felix Gyori, Chief of Operations and Transactions, AVK Romania*

After joining the EU in January 2007, Romania received funds for improvement of the environmental infrastructure. This financing is materialized in projects from the “Structural and Cohesion Funds” developed by the regional water companies all over the country, and such projects require a large range of products that can be supplied by AVK.

Elsaco Electronic, AVK’s partner and distributor in Romania, recently supplied a large number of valves to Erg Termrom for one of the most important projects for drinking water treatment plants. Erg Termrom is one of the well-known and experienced contractors in Romania.

The end customer was Ecoaqua, a water company from Calarasi which is located in the south-eastern part of Romania. AVK delivered butterfly valves between DN 200 and 800, gate valves, knife valves, check valves, dismantling joints, penstocks and air valves for this project.

Besides the above project, AVK has delivered valves in the large sizes for other similar projects like DWTP Pascani and DWTP Pitesti.



# AVK acquires TEC artec GmbH

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

With effect from 17 August 2012, the AVK Group has acquired the assets and activities of the company of TEC artec valves GmbH & Co. KG, with headquarters in Oranienburg just outside Berlin, Germany.

A new company has been set up and will operate under the name of TEC artec GmbH. The company employs a total of 15 people with 10 employees in the administration and 5 employees in the production.

TEC artec manufactures and sells a range of high-performance valves and systems for pressure and temperature control of steam and gas for power plants and other industrial applications, high pressure gate- and ball valves for gas, and valves for district heating.

TEC artec has been buying AVK valves series 36 and series 46 for a number of years. These valves are used in valve blocks that typically consist of a TEC artec gate valve with taps and bypass on which the AVK valves are installed. The valve blocks are primarily sold to the German gas market, but in countries like the Netherlands, Austria, Slovenia and Slovakia, they also buy these valve blocks for installation in transmission lines or directly in the distribution net for natural gas.

The TEC artec gate valve program offers high pressure valves that can easily handle PN 100 and even PN 200.

TEC artec product program:

## **Ball Valve**

- artec shut-off / control
- variTEC shut-off / control
- pipeTEC pipeline ball valve

## **Slide Valve**

- TECgate gas slide valve
- TECslide special shut-off slide valve

## **Steam Conversion**

- TECtemp desuperheater
- TECsteam motive steam nozzle
- TECpress steam conversion

## **Valve**

- TECvent control valve





## New AVK France website is online!!!

AVK France is happy to announce the launch of our new website on 28 September 2012. The new website is designed according to the corporate model, and AVK France is the first subsidiary to roll it out.

The site configuration is a great step forward for the marketing function at AVK France as it allows management of the website content, and hence making the website a dynamic tool. The platform offers new features like the Product Finder and the PartnerNet, which will allow customers to make a quick search and send requests for quotations very easily.

This has been possible thanks to the great team work accomplished by Anne Muller Le Vigoureux, Marketing Manager at AVK France and local webmaster for AVK France and Lykke Liv Elmoose, Global Webmaster at AVK Holding A/S.

To celebrate the website introduction, we have designed a special mouse pad to hand out at the Pollutec Lyon exhibition in November 2012.



## AVK Valves (Anhui) Co., Ltd

By Lisa Fang

AVK Valves (Anhui) Co., Ltd organized a two-day sightseeing tour for all employees to go to the Taiping Lake and Furong Canyon which is located on the northern ridge of Mount Huangshan.

Here, we had a bonfire party at the base of Mount Huangshan with hot dance performance, hand in hand circle dance, barbecue and beers. At the dinner, we had also prepared a small surprise for the employees with birthday in May. The lucky guys got a birthday cake and a greeting card signed by General Manager, Mr. Soren Kjaer.

This May, all employees have been very busy with MEW orders from Glenfield. Therefore, it was very relaxing for everyone's body and mind to be at the 95 % forest-covered canyon and the full-smile lake. All participants had a great time, and we considered it a very good opportunity for the employees to build up team spirit and enhance our corporate culture.



*The first team at the entrance of Furong Canyon*



## The new Clearway hydrant from AVK UK series 29/93

Take-up of the latest model in AVK's range of Clearway underground fire hydrants shows that the product is exactly in line with the future requirements of the UK water and fire safety industries.

The new series 29/93, which is kite-marked and fully compliant with BS750, complements the company's range of squat hydrants that has been the industry standard for more than 30 years; but it has the unique advantage of a full, straight bore from inlet to outlet, as the Clearway name suggests.

*"Several of the English water utilities have either committed 100 % to the concept or are adapting their strategies to incorporate its benefits into their standard procedures on a large and escalating scale,"* says Graham Charnley, AVK UK's market sector manager for clean water

The biggest advantage of the Clearway's straight bore, which is a change to the traditionally swept design of conventional squat hydrants, is the ease with which pipe maintenance, inspection and measurement equipment can be introduced and retrieved.

In addition, flow rate is significantly improved, with a tested flow of 4,500 litres a minute at 1.7 bars, which is more than double the requirement specified in BSEN14339.



Series 216  
Meter Box  
Adaptors



Series 217  
Factory Entry Elbows



Series 218  
Below Ground  
Entry Fittings



Series 456  
Crimp Tool Set

## Mains 2 Meter Range

**Under the Donkin brand, AVK UK has manufactured mains 2 meter products such as polyethylene service isolation valves and flow limitors for many years but now has several exiting new additions to extend the range:**

AVK UK has made major investments to manufacture the new mains 2 metre products with the centrepiece being a bespoke hydraulic press which also contains an inbuilt pneumatic test facility to ensure that every product supplied to our customers has been fully pressure tested by us prior to despatch. As with all AVK UK products, the mains 2 metre fittings are manufactured by our fully trained staff under procedures complying with BS EN ISO 9001 specification.

These new additions to the range are manufactured in our facilities in Hyde Manchester, Staveley and Anhui in China.

For more information about the Donkin M2M range contact M. Skeemer (Gas Sector Manager) or visit the Website on [www.avkuk.co.uk](http://www.avkuk.co.uk).



## Expo Apa 2012 at the Parliament Palace in Bucharest, Romania

By Felix Gyori – Chief of Operations and Transactions, AVK International A/S, Romanian Rep. Office

The Romanian international specialized exhibition in water supply, sanitation and wastewater took place from 11 - 13 June 2012 at the Parliament Palace in Bucharest, Romania.

The event is organized by the Romanian Association of Water and has reached its 14th edition gathering a large range of participants such as water companies, producers and suppliers of equipments and technology, designers, consultants, academic media, local and public authorities, and international financial institutions.

This year, the exhibition gathered 72 companies on a total surface of 1800m<sup>2</sup>. There were around 2800 visitors and because this exhibition is very specialized, around 95 % of the visitors are related to the water/sewage segments. Along with the Romanian companies there were exhibitors from Austria, Czech Republic, Denmark, France, Germany, Italy, Korea, Nederland, Poland, Spain, Turkey, United Arab Emirates and the UK.

AVK's participation in the Expo Apa has become a tradition since this is now the 3rd time we are present in the same stand of 30 m<sup>2</sup> in the main hall. Along with our main products, the focus during the three-day exhibition was on Supa Maxi range, series 820 butterfly valves, series 84 hydrants and

products for sewage. We also had the special AVK attraction: the beer hydrant in order to make our visitors to feel more comfortable.

All in all, the exhibition was a success; we were able to meet our clients, promote our products, and provide dedicated materials to designers and consultants thus sending our message efficiently to this market segment.



## Project "Dammam Water Tower" in Al-Khobar, Saudi Arabia

The AVK gate valve DN 400, series 02/21 GS and singer PRV is ready for installation at the Dammam Water Tower in Al-Khobar, Saudi Arabia



## Achema 2012

By Ilka Keilen, Marketing Coordinator, AVK Mittelmann Armaturen GmbH

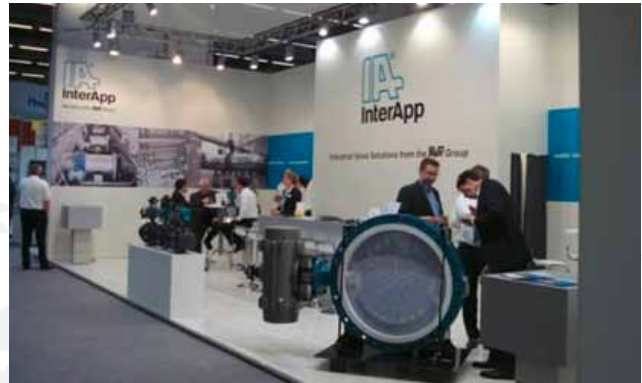
Achema - the world's largest trade fair for chemical process and biotechnology - took place from 18 – 22 June this year in Frankfurt am Main.

As a producer of valves for the chemical process and biotechnology, InterApp has been taking part in this exhibition for many years. However, after the integration of InterApp Germany into the industrial valves segment of AVK Mittelmann Armaturen, it was the first time for AVK Mittelmann Armaturen to join the exhibition.

Achema is even larger than the IFAT exhibition: in Frankfurt we saw 4,000 exhibitors from 50 different countries (IFAT: 2,939 exhibitors) and 180,000 visitors (IFAT: 125,000).

The booth design was consequently kept in white to obtain a "clean and straight" exterior emphasizing the special pureness of applications in chemical process and biotechnology. This booth design surely drew a lot of attention and caught the visitors' eyes.

The product focus was on special applications; i.e. on special coatings of the valve discs and led to highly technical discussions and was the key to serious leads. For the first time at the Achema a 100 % electronically exhibition reporting was carried out in real-time.



The exhibition was also used by the AVK Group as a platform to present the valve producers InterApp, Orbinox and WouterWitzel to the market as members of the newly founded business segment „Industrial Valves“. Each company therefore integrated the new slogan "Industrial Valve Solutions from the AVK Group" into their own stand design.

The exhibition was also an opportunity to strengthen the dialogue between the companies and bring forward our cooperation within the AVK Group.

## Nam Kwong gas in Macau

By Richard Wang, Managing Director, Tianjin success science & Technology Development Co., Ltd.

The pictures are from Nam Kwong gas in Macau. Nam Kwong gas used AVK gate valves series 36, series 46 and series 85 PE ball valves.





## IFAT 2012 – a great success as usual!

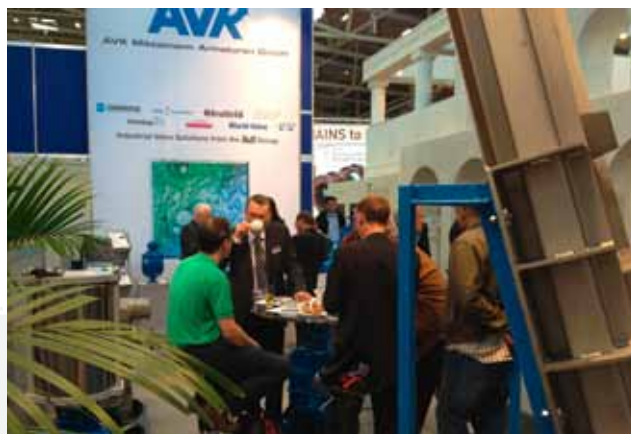
By Ilka Keilen, Marketing Coordinator, AVK Mittelmann Armaturen GmbH

Once again, the IFAT exhibition has broken its own record. This year, the entire exhibition ground was filled, and 125,000 visitors in total came to the Munich fair (IFAT 2010 had 109,589 visitors). The share of visitors from abroad was 50,000, thus significantly high. These figures surely maintain and emphasize the fact that IFAT is the world's leading fair in water, sewage, waste and raw materials management.

For AVK Mittelmann Armaturen GmbH, this year's IFAT also set a new record of visitors. Thanks to the enlarged booth (145 m<sup>2</sup> instead of 120); we received approx. 20 % more visitors at our stand than during the IFAT before.

Our new S07 hydrant generation was in focus at the exhibition. The new AVK segment for industrial valves was also displayed at our stand with products mainly from InterApp and Orbinox.

The exhibition reports confirmed that the main product groups discussed with visitors were the new hydrants, Supa Maxi™, PE ball valves, control valves, butterfly valves and penstocks.



The large Orbinox penstock was certainly an eye-catcher at our stand. The displayed penstock was a 1500x1500, bi-directionally sealing penstock for wall mounting with EPDM seat and frame, slide and stem (non-rising configuration) in stainless steel.

Finally, we were tremendously glad to welcome Niels Aage Kjær as a very special guest, who spent quite a long time at our stand in Munich.

## GVK, Croatia

By Boro Markic, Managing Director, MarketPak

The Croatian Water & Waste Water Association organizes a business conference for engineers and managers every year. This year's conference was held from 24 – 28 October 2012 in the town of Bol on the island of Brač.

During these days, 300 participants exchanged their experience within the technical and legislative water and wastewater fields. This conference is the most appropriate place for producers of municipal equipment to exhibit their products and thus, Market Pak has been participating in the conference for the past 10 years.

In the past five years, Market Pak has also been sponsoring the event.

This conference didn't include any evening arrangements, so five years ago we decided to sponsor a theatrical performance with some of the most prominent Croatian actors. This has been a great success, and in the past two years we have sponsored the theatrical performance with another Danish company, Grundfos that is also related to Market Pak on the Croatian market.

AVK and Grundfos invited all participants to spend an evening in the theatre by handing out invitations to everyone at the conference. Approx. 200 visitors accepted the invitation. At the entrance of the theatre hall, all visitors received an AVK bag with a Croatian version of the AVK

Product programme and some AVK give-aways. So far, echoes about our evening arrangement have been very positive, and Market Pak will continue promoting AVK in Croatia by sponsoring cultural events.



## Gas & Heating China 2012, Beijing

From November 7 to 9 2012, the largest gas and heating exhibition of China took place, in the Beijing National Agricultural Exhibition Hall.

Organized by China's Ministry of Housing and Urban-Rural Development, the China Gas Association and the China District Heating Association, Gas & Heating China drew approximately 20,000 visitors. On 13.000 m<sup>2</sup> exhibition areas, nearly 200 exhibitors from domestic enterprises and companies from the United States, South Korea and Europe, presented their products, equipment services and the latest technologies for gas and heating systems.

Tianjin Success Science & Technology Development participated in Gas & Heating China, together with AVK Group. Visitors of Gas & Heating China were attracted by the visually open AVK booth, displaying several products and a vivid video introduction. Exhibited were AVK Syntec's PE100 ball valves for gas, with options like a welded on

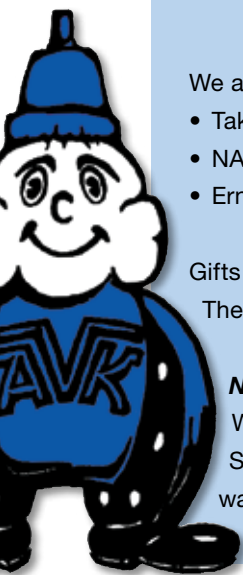
stem extension, with or without purge points, and various other accessories for gas and heating.

During the Gas & Heating China exhibition many interesting contacts were established and many clients were invited for in-depth conversations and further enquiries. The three day event generated good publicity for AVK Group, familiarizing the Chinese gas market with the brand's high quality gas and heating solutions.





# Competition



We are happy to announce that the winners of interlink no. 39 are:

- Takanori Kawase, SHIMIZU KOGYO CO,LTD
- NASER, Hepworth
- Erna Melin, Ahlsell Sverige AB

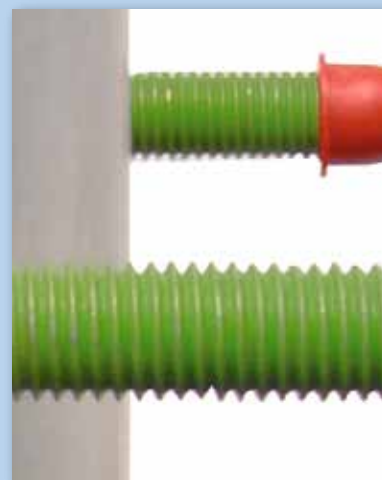
Gifts are on their way.

The correct answer is: An AVK knife gate valve

**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](mailto:adl@avk.dk)



Bowl from TripTrap,  
Ø32.



Salt and pepper mill from Menu.



Hoptimist in yellow.

