

Welcome to the latest edition of *BWT News*. Inside, you'll find news and product information from the BWT team.



IN THIS ISSUE

Introducing the new and improved BWT training facility.	01
Announcing new and improved air valves by CSA.	02
BWT goes to OzWater 2016.	02
How to install tank fill control valves.	03
Who's who at BWT.	03
Building the new Royal Adelaide Hospital.	04

Introducing the new and improved BWT training facility.

Welcome 



Welcome to another issue of the BWT newsletter. As always, there's been a huge amount of progress at Berman Headquarters.

At a glance, the team will be appearing at the upcoming OzWater conference for 2016. We've released a range of new products and we're constantly improving our existing catalogue. We have partnered with SA Health to contribute a comprehensive water management solution for the new, world class Royal Adelaide Hospital.

Still, perhaps our largest development is the ongoing expansion and improvement of our proudest asset - Australia's first interactive training facility for water operators and engineers.

In line with our dedication to sharing knowledge to improve the water technology industry, the BWT Interactive Facility is Australia's first environment that is dedicated to training for: diaphragm actuated control valves, electromagnetic flow meters, mechanical water meters, air and vacuum release valves.

The facility offers the chance to engage in or watch the optimum usage of a range products, in an environment free from the risk of water-hammer damage or supply outages.

Gain hands on experience and understanding by using products with water flows up to 100 m³ per hour and pressures up to 1400kPa, through a dual 100mm pumped recirculating pipeline system. The facility features a dedicated classroom and

has LCD Interactive screen showing the flow and pressure for all valves and meters throughout, offering detailed insight into the functionality of each component. The training system is also connected to a PLC, enabling the precise control of flow and pressure rates.

Bigger and better than ever before, the BWT training facility now also incorporates an added irrigation-specific air release valve. This comes in addition to two further new rigs, and one that allows for the configuration of any valve type.

It's all part of the Berman commitment to making things better. With over 26 years' worth of industry insight - and no plans of going anywhere - we're passionate about improving our industry by sharing knowledge to create better outcomes for water technology and valve professionals.

Training can include a range of scenarios:

- Setting of one or multiple Pressure Reducing valves.
- Verifying the performance criteria of Australian Standard AS5081.
- Grounding comparisons versus actual performance of Electromagnetic Flow Meters.
- Programming and actual verification of your specific flow ranges of Electromagnetic Flow Meters.
- Extreme low flow demonstration of Utility Bulk Billing Meters.
- Air flow testing of air release valves in vacuum and air discharge.
- Demonstrating low pressure sealing capabilities of air release valves.

To reserve your place for a demonstration or walkthrough at the facility, call (03) 9464 2374 or get in touch with your local BWT contact. We look forward to furthering our training curriculum and more exciting opportunities for knowledge sharing.

Announcing new and improved air valves by CSA.

News 



Bermad Water Technologies has enjoyed a solid relationship with one of Europe's leading air release valve manufacturers, CSA.

Over the years, CSA have continually upgraded and fine-tuned product development in order to meet the varying demands of a challenging Australian market. With the introduction of the new air valve standard AS4956, CSA has again adapted their

product to meet the needs and requirements of the local market.

Introducing the improved product.

The model "Fox-RFP" is synonymous with quality throughout water and irrigation markets. As the default product selection throughout Australia, it is chosen for proven performance, reliability, and suitability for local conditions.

Recently re-released with an added rapid-filling prevention mechanism, the new Fox-RFP has been an outstanding success in all applications for raw and treated water in mining, water supply and irrigation throughout Australia. The redesigned model offers a range of impressive features:

Low pressure sealing (less than 0.9m). There has been great demand in Australia (especially in applications for flatter topography) to have valves that can seal positively without leakage with very low pressures.

Materials of construction compliant with AS4956. Manufactured from a combination of ductile iron, 316 stainless steel and polypropylene, the valve is compliant to the standard together with the FBE coating which is locally approved to AS4020.

Extreme air flow performance. The newly designed shape of the valve ensures full-port optimum air flow performance, making it suitable for pipes with larger than usual diameters.

RFP surge prevention design. The rapid filling prevention design is proven. It makes the filling of pipelines safe and reliable, especially in column separation conditions, by minimising surges.

Drain port of valves. The Australian standard requests that all valves have a lower drain port to ensure that testing and disassembly of valves is quick and safe for operators. CSA originally pioneered this function – now a standard requirement for all valves across the country.

For further insight into the newly released valve, see our data sheets & installation and operation manuals, engineering data for calculating valve sizing for location and installation, and animated product demonstrations. For physical demonstrations and any additional information, contact your nearest Bermad office at www.bermad.com.au.

Image: The newly redesigned Fox-RFP, installed in an irrigation pipeline application.

BWT goes to OzWater 2016.

Events 



Image: 'The OzWater 2016 conference'
Sourced from www.ozwater.org.

Details of the trade show are at www.ozwater.org. We look forward to seeing you there.

The 2016 Ozwater trade conference takes place from the 10th to the 12th of May, at the Melbourne Convention and Exhibition Centre.

As in previous years the team from BWT will be present, showcasing our latest product and solution developments. Some of those include:

- Bermad 700 series : Hydraulically actuated diaphragm valves with the updated design and accreditation to AS5081. The valve has been designed for Australian requirements under AS5081 and Watermark accreditation.
- Bermad non-metallic air release valves: The valves have inbuilt surge protection designed for water supply, high saline or sea water and mining applications.
- CSA tank/reservoir fill control valves: These can operate at pressures from zero up to 16 bar and cope with treated or raw water intakes.
- Sensus domestic smart water meters: Designed for today's needs, the smart meters have remote reading and billing, and are approved for use in domestic water supplies.
- Euromag electromagnetic flow meters: Comes with inbuilt 3G communication, pressure sensor, data logger and even more features to meet Australian water industry requirements. Come and have a chat about our products, or one of the many large-scale projects BWT is involved in around our great land.

How to install tank fill control valves.

How to 



Images: Independent support of the valve (top); Vertically installed tank fill valves (bottom).

For more tips on valve installation, please visit www.bermad.com.au, or contact your nearest sales officer for further advice on best-practice installation.

The issue: Many people incorrectly install tank fill control valves, or fail to consider several key factors when installing the valves.

Float control valves are excellent resources that, when installed correctly, allow for the automated control of water levels in commercial and domestic tanks.

A float control valve is typically fitted with a float mechanism that is designed to monitor and regulate the top water level in a tank, to ensure there is always a constant level of fluid in reserve. Without a tank fill control valve, water levels need to be monitored with alternative methods that can be costly and time consuming.

Tank fill control valves are commonly applied across a range of applications including water supply in commercial agriculture, irrigation systems, and fire control.

Although they are used frequently, tank fill control valves are often not installed for optimum performance. Correct commissioning and installation is the best way to ensure that tank fill valves provide accurate readings and functionality.

The solution

Take note of these simple techniques for best-practice installation.

When you're installing the main valve body, remember:

- Standard tank fill control valves are designed to be installed horizontally.
- Valves can be installed vertically. However, given that standard valves are intended for horizontal application, it is critical to indicate whether a valve will be installed vertically when placing an order.
- In order to isolate the tank fill control valve, isolation valves should be fitted both before and after. This will ensure that the necessary valve intervals are maintained.
- If your tank fill control valve is being installed externally in a frost-prone area, make sure the valve body is fully covered to avoid ice forming inside.
- Scope out the position of the installation early on in the process, to ensure that operators have easy access to the valve for maintenance.
- Ensure the weight of the valve is independently supported, so that no unnecessary stress is placed upon the pipeline.
- If the valve is fitted to a critical supply line, install a duty stand-by arrangement to enable on line maintenance.

Who's who at BWT.

Profile 



DAVID CHAPLIN South Australia & Northern Territory Sales Manager

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With a dedication to quality and versatile service, South Australia & Northern Territory Sales Manager David Chaplin has worked his way through various cross-disciplinary roles in the valve industry. Over the past 34 years, he has witnessed a huge amount of change to the market and adapted his skillset accordingly.

From rapid shifts in the types of products and solutions available, to the increasing scale and

complexity of projects - David has dealt with it all and delivered for clients. With experience working across a variety of Sales and Development roles, his first-hand knowledge of valves, fittings and accessories (and especially those that meet specific project needs) is one of his key professional strengths.

As our Sales Manager in South Australia, an area with one of the world's harshest environments due to high saline ground water, David has also helped to pioneer in-field testing for BWT products in sewage applications. As a result, he has extensive experience working on corrosion issues in the water and sewage markets in this environment.

Building the new Royal Adelaide Hospital.

Case Study 



In our latest case study, David Chaplin, BWT's South Australian and Northern Territory Sales Manager, provides an outline of our role in the world-class Royal Adelaide Hospital (RAH) project.

Scheduled to open in September 2016, the new Royal Adelaide Hospital will provide state-of-the-art healthcare services and treatment facilities for South Australians.

The development has been a huge project. At its height, there were over 2,000 site staff working with more than 100,000 cubic metres of concrete. They've drilled more than 2,000 piles and used over 25,000 tonnes of reinforced materials in completing the \$1.4 billion project. They're enormous numbers, and they're all going towards building an industry-leading hospital facility.

Bermad, a proud partner.

The team at Bermad Water Technologies is proud to have played an equally significant role in the project.

We partnered with SA Health to develop a comprehensive end-to-end water management solution that caters to the full range of the site's specific needs.

Building a brand new cutting edge medical centre offered an exciting challenge, and one we embraced whole heartedly. It represented a great opportunity to align with the RAH's dedication to high quality and innovation.

Our products can be found throughout the building. They assist in areas such as pressure reduction and regulation for many of the different rooms - from technical treatment suites, through to private hospital rooms and staff quarters. The hospital will use Bermad solutions to capture precise usage information, cooling and heating water, and meet the strictest standards for fire safety and irrigation.

Innovative quality, improved care.

The new hospital is an incredibly versatile facility, with a range of pioneering features that have not been seen before in Australia. There are also a wide range of new services and amenities on site, including a supermarket, restaurants, cafes, a bank, and even a post office.

As a result, we needed to develop and deliver a comprehensive solution that aligned with the world-class facility, and that was fluid and flexible enough to meet all of the RAH's many needs. At a quick snapshot, the new Royal Adelaide Hospital will feature Bermad Water Technologies' Series 720 pressure reducing valves standards marked & water marked to AS5081, Euromag electromagnetic flow meters, MTKD Multi Jet water meters and Sensus WP Dynamic turbine water meters.

This wide range of products offers the RAH complete control over pressures and flow rates. The solution ensures reliability of service, and protection against scenarios where pipes or valves may be damaged or restricted. And, it provides the hospital with a number of options for precise and highly accurate bulk metering, enabling their team to acquire detailed usage information for building management and other analysis.

Unique challenges and standards compliance.

In addition to scale and scope, the project presented some unique challenges. Codes and regulations are of the upmost importance in the medical sector, with sterility and flow reliability being two particularly essential requirements.

At Bermad, we take standards seriously regardless of the project, product or application in question. BWT products meet the strictest Australian standards in relation to a variety of accreditations.

The RAH project required us to meet industry certifications and standards such as AS5081 for pressure reducing valves, AS4158 for requirements and performance for coating systems for valves and fittings used in water supply systems, the potable water standard AS4020, and the flanging standard AS4087.

A commitment to quality.

Dependability and advanced design were two key factors in SA Health's decision to use BWT products throughout the extensive redevelopment.

The hospital's project team held our water solutions in healthy regard, thanks largely to Bermad's reputation for durable long-term performance and measured product engineering.

With the design close to completion and our involvement having finished at the end of 2015, we can confidently say that Bermad are honoured to have been a part of the project. Not only is the refurbishment contributing to improved healthcare for a wide variety of Australians, it is also the chance to align Bermad Water Technologies with a world-renowned initiative that is attracting serious interest from around the globe.

As the launch date rapidly approaches, we're looking forward to monitoring the new facility's progress and hearing about the hospital's many successes.

If you're interested in learning more about any of the products or solutions used in the RAH development, or any other aspect of this project, please get in touch with David Chaplin at david@bermad.com.au.

Get in touch — BWT can be found Australia-wide.

For more information or to speak to one of our staff, call the number in your state. www.bermad.com.au

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