

# BWT News

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



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## Bigger factory. Faster delivery. Improved service.

Welcome



### 2016 is the start of an exciting new chapter for Bermad Water Technologies.

We're incredibly proud and excited to announce that we have recently moved to a brand-new Manufacturing and Distribution Center. Located in Thomastown, the new purpose built facility houses a new interactive training complex, multi-purpose training room, and provides enough capacity to store three warehouses of product.

Due to unprecedented customer demand, it's a move that's been in the pipeline for quite some time. Over the past couple of years, Bermad Water Technologies has grown rapidly.

We have recently partnered with Euromag to enable us to supply magnetic flow meters to the Australian market. This, combined with an ever growing water meter business, ongoing strong performance and an increased demand for control valves, meant that more storage space was required. It was a tough decision to leave the old Bermad site, but we love our new home.

The benefits of the new Bermad complex are significant. The improved storage levels ensure that we can continue to offer the same quality

service our clients are accustomed to, by carrying far higher inventory levels.

In addition to the newfound spaciousness, we were able to design several aspects of the new site to cater for specific and emerging operational needs. Most importantly we've constructed a dedicated training room and hands-on interactive training rig. This enables Bermad staff to conduct training seminars and coaching sessions with our clients.

We've also been able to custom design the valve build area, making for a more fluid and efficient workspace. This enables faster speed of production, and more rapid product dispatch for our clients.

We are proud of our new Head Office and we invite you to come and visit us in our new home. To organise a visit contact your local service representative.

*Images: Bermad Manufacturing and Distribution Center in Thomastown (above).*

## Towards Digital Utility Conference

Events 


TOWARDS THE  
**DIGITAL**  
WATER UTILITY



**During September 2015, Bermad Water Technologies attended the WSAA Towards the Digital Utility Conference with their supply partners, Sensus.**

Now in its third year, the event is all about increasing awareness of emerging industry trends, embracing innovations and maintaining understanding of rapidly evolving technologies in the utility sector.

A wide range of speakers presented on everything from the convergence of big data, cloud shared solutions, and digital metering, to new technologies that can enable greater efficiency and improved customer outcomes. A key goal for BWT was to identify any potential customer benefits or organisational efficiencies that are being achieved in the field. The second was to use this knowledge and apply it to our operational approach.

We weren't simply there to take it all in though – Bermad maintained a keen presence throughout the event, and presented some innovative ideas of our own.

Michael Harrison and Damian Muir represented BWT, manning a stand throughout the conference and participating in many of the interactive group discussions. There was a great deal of interest shown from many of the attendees, with a number of the participants stopping at the booth to learn about our intelligent metering solutions and innovative products and approach.

This year's WSAA conference again proved that significant financial savings, increased efficiency and improved customer value can all be achieved when utilities embrace new ideas and technologies. We're excited about the prospect of applying some of our learnings in the coming months and years, and we're dedicated to embracing the conference's spirit of innovation in every aspect of what we do.

## Understanding the Standard AS5081

Approvals 


Image: 700 Series Valve to the AS5081 Standard.

**Standard compliance guarantees the optimum performance and construction of valves.**

At Bermad, we're dedicated to the ongoing high performance and design of our products, which means we value standard compliance just as highly.

**AS5081** is a Standard that provides specific material requirements and performance tests for metallic-bodied, hydraulically operated automatic control valves for waterworks purposes, together with default compliance requirements for use by manufacturers and certification bodies.

AS5081 specifies requirements for metallic-bodied PN 16, PN 21 and PN 35 hydraulically-operated, diaphragm or piston-actuated, globe or piston-style, automatic control valves for waterworks purposes and valve sizes DN 40 to DN 900 (inclusive) – suitable for, but not limited to, drinking and recycled water with a maximum operating temperature of 40°C.

The AS5081 Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WS-022, Valves for Waterworks Purposes, in response to a request from the Water Services Association of Australia (WSAA), to provide a suitable product Standard for automatic control valves.

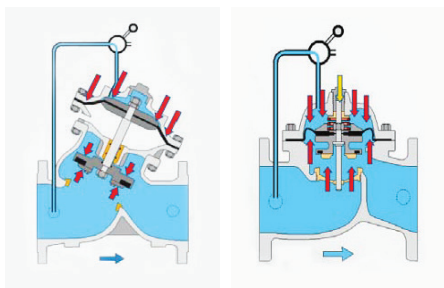
To be certified AS5081 requires the product manufacturer to nominate performance values which the certifying authority will test against. For example, if one criteria is control at zero-flow, the valves must meet this criteria throughout a stringent testing process in order to pass certification.

Where consistency in performance and material quality is paramount, it can be measured and ensured through AS5081 certification. At Bermad, we work hard to ensure all of our relevant products are AS5081 certified where possible.



## Benefits of using a Double Chamber 720 BXW valve

News 



Images: The 720 BXW valve (top);  
Double-chambered valve (bottom left);  
single-chambered valve (bottom right).

To find out more about the 720 BXW conversion process go to [www.bermad.com.au/videos/](http://www.bermad.com.au/videos/) and watch our 700 series videos.

**The 720 BXW is an extremely powerful and versatile pressure reducing valve. It can be configured as either a single or double chambered valve.**

Let's take a look at what a double chambered valve is, the applications for this product, where this configuration is beneficial, and the problems the valve solves.

Traditionally, the single chambered valve is seen as having a higher accuracy than a double chamber. Recent developments and advanced mechanisation has meant that the double chamber valve can now be as accurate.

Now, you can have the full and accurate control of a single chamber PRV, as well as the added benefit of upstream pressure acting above the diaphragm while the underside of the diaphragm is open to atmosphere. The result is an extremely responsive valve that can shut off with no pressure increase. With a 720 BXW, you can have a large amount of flow running through the valve, have the flow shut off instantaneously, and have your downstream pressure remain completely unaffected.

In the event of a hydraulic lock-out, the valve is able to retain control. It makes the 720 BXW an ideal choice in any situation where there is a high risk of a system dead-heading.

Consider a scenario where a single chamber PRV has been used for pressure reduction – it's good

practice to install a pressure relief valve on the downstream side, to protect the pipeline from over pressurisation. In circumstances where demand is terminated quickly by the sudden closure of an isolation valve, a single chamber PRV can't react fast enough to prevent an increase in pressure. That's going to effectively dead-head your pipeline.

Since a double chamber valve only has atmospheric pressure below the diaphragm, any pressure change above the diaphragm will have an immediate effect on the valve position. This will ensure that the valve shuts quickly and smoothly.

### Simple conversion

There are still scenarios where a single chamber valve is required. Thanks to a unique and innovative design, the 720 BXW is easily converted from a single chamber valve to a double chamber PRV. The conversion process is simple, can be done in-situ, and doesn't require any special tools or additional parts.

See our website for more information on the conversion process, the 720BXW, and our series of instructional videos highlighting the many benefits of dual chamber construction.

## Who's who at BWT

Profile 



### RUSS DUNNE Queensland Manager

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With a proud track record of over 37 years in Queensland's water and waste water industries, Russ brings a wealth of experience to our operation. He's worked for a range of respected companies throughout the industry and has been with Bermad for nearly a decade. During this time he has worked on a wide range of projects, including the major Queensland tunnel projects. So it's no surprise that he has a deep understanding of the technical requirements of pipeline construction design and project implementation.

Russ began his career in plumbing and construction, and built a versatile set of skills by working across sales management, sales and product champion roles. Although he's worked in multiple positions, Russ' entire professional life has been spent in water and sewerage markets, and he's got the specialist expertise to prove it. Colleagues describe him as being friendly and reliable.

Russ prides himself on experience learning, with extensive on-the-job training in construction, supply, procurement and management. With a finger on the pulse and a hands-on attitude, he's dedicated to maintaining Bermad's status as an industry innovator, while finding the perfect solution for every client's individual needs.

## TasWater: A responsive response to failing pipelines

Case Study 



**In this case study, Damian Muir, BWT's Metering Technical Specialist discusses our innovative approach to helping TasWater solve some legacy piping problems.**

TasWater is the sole water and sewage service provider for Tasmania. With annual turnover of \$300.3 million, over 200,000 water connections and more than 176,000 sewerage connections, they have a significant scale of operations throughout the state.

Although TasWater is a relatively new entity – formed after the combination of three previous service providers – they have some pipeline tracks within their infrastructure that are over 20 years old.

Modern pipe lines are designed with two dedicated tracks for specific usages: fire service and domestic. TasWater's existing structures had been designed and installed long before dual lines were standard practice. Developing an additional pipeline to modernise the track simply wasn't a solution – it would take too long and cost too much.

BWT had to accommodate the existing infrastructure and develop an innovative approach that wouldn't involve any changes to existing pipework.

TasWater required a new solution for a variety of reasons.

Firstly, the bypass meters used previously ran the risk of mechanical failure, which can consequently obstruct and impede flow. In a potentially critical fire service scenario where a high and sustained flow is required immediately, running the risk of limited water availability is not an option.

Secondly, in any instances where institutions are using significant amounts of water for manufacturing or production requirements, pipes are typically using higher levels of water than would be expected on the domestic line. If a bypass meter is consistently running at Q3 then it can result in a loss of reliability and again compromise the availability of higher flow for fire service usage.

The MUT2200 Euromag Magnetic Flow Meter offered a potential solution.

In order to ensure that TasWater could gauge precise readings for accurate billing purposes, we developed a custom-designed earthing kit.

The kit removes all “noise”: flows that register, but that don't actually exist. It proved so successful that it is now a standard fitting on every Euromag BWT meter.

Another custom development involved heightening the responsiveness of our installations by utilising our fast-acting MUT 2200 sensor, so that the meters register almost instantaneously when someone turns on a tap. A faster acting meter makes for more accurate billing purposes by providing a more comprehensive and detailed account of domestic water usage.

We also customised the output of our data, so that it could be integrated into TasWater's AMR remote meter reading program and immediately processed for analysis. This meant that TasWater were receiving more accurate data in a far more convenient manner.

Thanks to the combined impact of these strategies, we were able to ensure greater reliability on the meter and eliminate the risk of mechanical failure, while improving the accuracy and convenience of records for billing information.

There are now well over 100 installations throughout Tasmania. TasWater are in the process of replacing all of their combination meters with BWT's purpose-developed mag flow technology.

With a positive outcome and clear benefits for both BWT and TasWater alike, we look forward to working together on further projects in the years to come. If you're keen to learn more about the Euromag solution, TasWater, or any other organisation or project BWT have been involved in, please get in touch with Damian Muir at [damian@bermad.com.au](mailto:damian@bermad.com.au).

### Trends

## Irrigation price list Oct 2015

The latest irrigation price list is out now. Of interest to irrigation distributors, the new list incorporates many new products and services for the irrigation industry.

If you'd like a copy of the list, please contact your nearest BWT sales office or [sales@bermad.com.au](mailto:sales@bermad.com.au) or visit [www.bermad.com.au](http://www.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](http://www.bermad.com.au)

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