

In line with its legacy of producing innovative solutions that began with its predecessor Mephan Ferguson on the Golden Pipeline more than one hundred years ago, Tyco Water has manufactured and supplied the first DN900 Integral Bypass Metal Seated Gate Valve. Five of the 4.3 tonne feats of engineering have already arrived on site for the Narellan South Reservoir Outlet Project at Spring Farm.

Valve bypasses were first included in the design of pipelines to reduce the force on the gate which once required the strength of two large operators to open and close. The bypasses were effective in reducing the force but presented a new challenge to pipeline designers stemming from the additional space required by the extended pipework and the cost associated with the many intricate components.

The tees, reducers, bends, a valve and thrust blocks that were required quickly resulted in higher costs and bulky assemblies that were unable to be used for some projects and inefficient in others. Tyco Water responded to the need of its customers for a better solution and set its best design engineers to the task.

The resulting product is the brilliant design that is currently being laid as part of the pipeline at Spring Farm. The design ticks the major criteria for designers and constructors as it simplifies the construction process and lessens the cost whilst being fit for purpose under the Australian Standard ASNZ 2638.1.

More importantly the design meets the requirements of customers by providing an effective and easy to use valve that has a smaller footprint at a reduced cost. Tyco Water has already received several orders for the valves which have begun arriving on sites since the start of this year.

Despite its time in the market and superior patented products, Tyco Water continues to deliver on its commitment to the water industry by adapting to the challenging market and providing new and innovative products to assist its customers.

Tyco Water is the manufacturer and supplier of ductile iron, steel and plastic pipeline systems. With an unparalleled record of supplying Australian and international water infrastructure projects, Tyco Water's five Australian manufacturing facilities ensure constructors receive their pipeline solutions to the highest standard and on time.

