



# Crown Casino - Melbourne

## *"Calm Networks" Check Valves*

Discussions around "calm networks" usually focus on Municipal networks, however, this is not always the case. It is often said that "a check valve is a check valve" but those who know, are well aware that this is almost never the case and that each different style of check valve is designed to be used in specific applications.

Recently the desire to have a calm network, and an incorrect check valve selection led to a less than satisfactory result for a client in Australia. Crown Resorts is one of Australia's largest entertainment groups with its core business investments in the integrated resorts sector. In Australia, Crown operates two of Australia's leading integrated resorts in Crown Melbourne and Crown Perth.

A recent high pressure pump installation saw the use of what seems to be the "go-to" selection in the heating and ventilating section sector, the double door wafer check. While this style of check may indeed have its uses, it should definitely not be the go-to for all applications. There are four main areas that should be addressed when making proper check valve selections:

- (1) Non slam characteristics
- (2) Head loss
- (3) Application
- (4) Cost

Typically, we see cost as the only deciding factor, and that may suit the budget, it more times than not, does not deliver the solution that the client is actually looking for, and often the end result is noise, which in a high-class integrated resort, is definitely not what the client was looking for.

So the end result in this case was noisy water hammer and damage to components of the piping system and this occurred during commissioning of a new system. There was immediate pressure to obtain locally a number of high-quality, 25 Bar rated, non-surge design, metal seated check valves.

Cla-Val's partner in Australia, Challenger Valve with their client ALine Pumping, worked with Cla-Val Asia-Pacific to source a suitable solution which was a Cla-Val 580PH, PN 25 rated, metal seated, Wafer style, silent check valve. The order was received, and goods shipped same day from Cla-Val Asia-Pacific New Zealand stock and the valves were installed within one week of initial order.

So, in the days of "I want it now", Cla-Val Asia-Pacific is a manufacturer who holds stock of a variety of high-quality, silent check valve solutions that you can indeed have now. Commissioning complete, no Hammer, no surge no noise, happy client. Next time you are designing a building piping system, look past the initial cost and consider what option is going to give you the best optimum performance and talk to the team at Cla-Val Asia-Pacific.

