Water Supply for Dental Consoles

AIM
The aim of this technical solution is to clarify the requirements for connecting cold water supply at dental surgeries.

PLUMBING REGULATION S 2008
The Plumbing Code of Australia (PCA) is adopted by and forms part of the Plumbing Regulations 2008. Part B1 of the PCA specifies the objectives and performance requirements related to the installation of cold water services. AS/NZS 3500.1: Plumbing and drainage Part 1: Water services, is a “deemed to satisfy” document listed in Part B1 of the PCA and contains a section on “Cross connection control and backflow prevention”.

TECHNICAL REQUIREMENTS
Dental surgeries normally do not have any special facilities or apparatus that is connected to the drinking water supply.

AS/NZS 3500.1 Appendices E and F:
- Are provided for information and guidance
- Provide hazard ratings for different forms of cross connection

Individual protection is usually via the air gaps (see Figure 1).

For zone protection a dental console in Australia is classified as a low hazard.
- This requires a non testable back flow prevention device.
- The recommended device is a Dual Check Valve with Atmospheric Port (DCAP).