

Case Study

Wembley's Water Tanks have Keraflo Control

Product	Aylesbury KP
Location	Wembley Stadium, London

One of the best TV programmes in the Engineering Connection series presented by Richard Hammond was on Wembley Stadium. While descriptions of the purpose of 'the arch' and the engineering structures inherent in stadium design were riveting, one of the most interesting details in the programme concerned the provision of the huge volume of water needed to feed Wembley's WCs and urinals in the brief period of half time. Richard Hammond explained that the needs of 2,614 toilets plus rank upon rank of urinals all round the Stadium for that hectic 15 minute period are supplied from three vast tanks each with a capacity of 740,000 litres.

Wembley's immense water flow is controlled by a much more sophisticated product than a traditional ballcock – the Aylesbury KP Type Valve system.

Developed and manufactured by Keraflo, the KP system is specifically designed for use with large tanks with a requirement for high outflow rates. It comprises an in-line control valve working with an Aylesbury KB Valve as a pilot. In the Wembley tanks the inflow valve is of a four inch diameter offering very fast flow rates but the KP range actually goes up to an even more massive eight inch diameter if required. The pilot valve offers fully variable delayed action opening and closing water level controls and a straight on/off function.



The valve can be set to maximise the amount of stored water at periods of high demand, it eliminates water hammer and dribble and is maintenance free. When the stadium does not have matches or concerts the demand for water is greatly reduced so the KP Valve can also be set with a large delayed action to reduce the capacity of the tank and ensure a good turnover of water. This helps keep temperatures lower and reduces the risk of legionella and other water borne diseases associated with storing too much water.

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