

# F.J. Horgan Water Treatment Plant

The F.J. Horgan Water Treatment Plant is the newest of Toronto's four water treatment plants and a recent expansion doubled this facility's capacity. This treatment facility draws and treats water from Lake Ontario that is then supplied to the city via a 72" (1800 mm) feed line.

The feed line is controlled by a 72" (1800 mm) wafer valve and the City required an access point to perform inspections and maintenance on the valve. The solution involved the installation of two 72" (1800 mm) Shurjoint Ring Joint Couplings on a sections of pipe adjacent to the valve that created a union. The R-88 ring joint couplings not only provide a strong and reliable leak tight joint, but with the removal of a few bolts and nuts the City achieved the easy access point they needed to inspect and perform maintenance on the valve to insure optimum performance of the system.

The Shurjoint R88 Couplings were selected based on their performance, reliability and the ease and speed in which they can be installed and disassembled, resulting in a cost effective solution to the City's needs.



Testing of the 72" (1800 mm) Shurjoint Ring Joint Coupling Assembly

## location

Ontario Canada



## year

2011

## application

Water Treatment Plant  
New Water Main

## productline

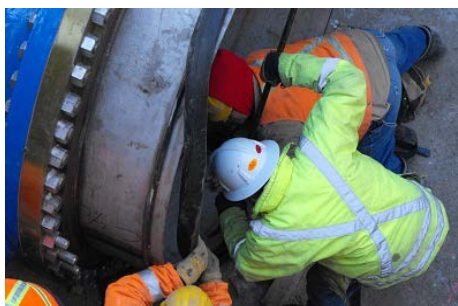
VSH Shurjoint

## architect

Industry

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No costly tools or equipment were required and the majority of the work was fabricated and tested off-site. The engineer and site supervisor were very satisfied with the result and agreed that the R-88 was the best solution. The structural weld rings were fabricated on the pipe ends and hydrostatically tested to 175 psi (12 bar) off-site by Bardel Engineering Ltd. to save both time, labor and to eliminate the need for job site welding. The fabricated components were then supplied to Clearway Construction Inc. who performed the final vessel assembly and commissioning. Even though the temperature during final assembly was only 5°F (-15°C) the EPDM gasket remained pliable and the assembly went smooth and without problems.



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