

# Connection Project

FROM THE LEADERS IN CIVIL AND PLUMBING SOLUTIONS

PHILMAC VIKING JOHNSON COUPLINGS AND DISMANTLING JOINTS

**PRODUCT NAME:** Viking Johnson Couplings and Dismantling joints.

**PARTS USED:** More than 50 custom made fittings ranging in size from DN200 to DNI600.

**WHAT IS IT?** A mechanical coupling incorporating an adjustable telescopic flange.

**WHERE IS IT USED?** To connect valves into large bore pipelines where service access is a key requirement.

With water security a key concern for South Australia, the Government has approved a new desalination plant to help meet the state's needs. Located near Port Stanvac, south of Adelaide, the plant will deliver 150ML of water per day (approx 50GL or 100 billion litres of water per year) with the capability to produce up to 300ML per day.

A transfer pipeline between the plant and the Happy Valley Reservoir was designed by Arup Water and constructed by a consortium between MacConnell Dowell and Built Environs.

Philmac was contacted by the consortium to help provide solutions for the connection of pipes to be used in the pumping station and also in the transfer pipeline. The transfer pipeline delivers desalinated water from Port Stanvac to the Happy Valley water treatment through a 1500mm diameter pipe. The design required the use of dismantling couplings so the enormous valves could be serviced when necessary.

Having worked with Philmac on a number of projects around the country, team members from MacConnell Dowell contacted Philmac seeking UK based Viking Johnson couplers for the job. More than 50 custom made couplings were supplied ranging in size from DN200 to DNI600 with pressure ratings from PN16 to PN35. The DNI600 couplings had some 80 stainless steel bolts which took a full day for each coupling to be incrementally adjusted and tightened to the correct torque.



First water will be delivered via the plant in December 2010 with the plant fully operational in late 2012, thanks in part to great products from Philmac and an excellent partnership with the consortium.



For more information visit our website, [www.philmac.com.au](http://www.philmac.com.au) or call us on 1800 755 899.