

CASE STUDY



PLASSON FITTINGS: THE TRUSTED CONNECTION BEHIND ROYAL SYDNEY'S UPGRADE

Royal Sydney Golf Course | Rose Bay, NSW



CASE STUDY



We only work with products we believe in, and with Plasson, we had total confidence we were getting a solution that matched the calibre of this course.

ADAM MARCHANT ROYAL SYDNEY GOLF CLUB | SUPERINTENDENT

The Royal Sydney Golf Club redevelopment faced multiple challenges across its 18-hole transformation. Limited working space, tight construction timelines, and saline coastal conditions put pressure on the team to find fittings that could withstand harsh environments without slowing progress.

Maintaining member access while future-proofing the irrigation system added further complexity. To overcome these issues, the team required a durable, efficient solution that could streamline installation, minimise disruption, and deliver long-term reliability.

PROJECT PARTNERS:

Irrigation Contractor: **Gosford Irrigation**

Royal Sydney Golf Club Superintendent: **Adam Marchant**

Timeline: **January 2024 – February 2025**





RESULTS AND IMPACT:

To meet the project requirements, a PN16-rated Plasson system was installed using a combination of mechanical, compression and electrofusion fittings. The site's need for rapid irrigation called for high water flow rates, which required the use of 90mm laterals instead of the typical 63mm. The Plasson system offers these benefits:



CORROSION-FREE PERFORMANCE

With no metal parts, nuts or bolts, the system eliminated corrosion, and the need for anti-seize treatments, delivering a truly low-maintenance solution.



FASTER INSTALLS WITHOUT COMPROMISE

Mechanical fittings on the laterals helped the crew significantly reduce installation time, by up to 6 weeks, allowing the project to stay on schedule while still meeting quality standards.



COST SAVINGS

The Plasson Plassaddle significantly reduced installation time, allowing crews to work faster and more efficiently. Its durable, fast, and easy-to-install design also reduced labour costs and future maintenance.



CERTIFIED QUALITY

Plasson's PN16 products, backed by third-party certification to Australian Standards, gave the project team full confidence in Plasson's components, knowing performance wasn't just claimed, but certified.



LONG-TERM PEACE OF MIND

A welded PE100 system exceeding the requirements of the Australian standard provided a 100-year design life and gave the team confidence in long-term reliability, eliminating the risk of underground leaks and future repairs.



WATER USAGE REDUCED BY 20%

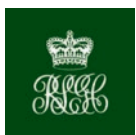
By allowing Royal Sydney to deliver more precise and economical course irrigation, combined with the new native landscape, water usage will be reduced by 20%, and up to 73 million litres of water will be saved per year.

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CHALLENGES:

An iconic course in Australia, completing the upgrade within a tight timeline presented several challenges:

- **Tight Delivery Schedule:** Swift installation was required within a narrow construction window, leaving little room for delays.
- **Limited Site Access:** Restricted working space made equipment coordination difficult while keeping parts of the club open to members.
- **Coastal Soil Conditions:** Saline, sandy soil caused issues like galling and corrosion with traditional metal fittings.
- **Labour Disruption:** The desire to limit issues with anti-seize compounds and lost hardware in trenches, potentially slowing down installers and creating unnecessary reworks.
- **Infrastructure Demands:** Upsizing from 63mm to 90mm pipe was necessary to support larger watering zones, reduce turf closure times, and future-proof the system for expansion.
- **Pressure to Perform:** With member expectations high and full-course redevelopment underway, only reliable, efficient components could meet the required operational and performance standards.



SOLUTION:



ELECTROFUSION WELDED MAINLINES

Sizes 90mm through to 450mm PE100 pipe were installed in open trenches. Plasson's SmartFuse electrofusion fittings, welding machines and installation tools and on site training helped the installers achieve high quality welds.



PE LATERAL ISOLATION BALL VALVES:

Plasson Full-bore, quarter-turn PE ball valves reduced head loss and pumping costs for the project. The valves actuated from a simple riser allowed smaller pits and lids, reducing solid surfaces on the course.



PLASSADDLE SPRINKLER CONNECTIONS:

Bolt-free mechanical saddles were quickly installed, connecting laterals to the sprinkler swing arms. With over 1,800 units fitted, the innovative system saved up to 6 weeks on the schedule.



SERVICE:

Plasson provided extensive training, international best-practice insights, and reliable supply. Expertise and responsive service helped ensure the project stayed on track and met performance goals.