

PROGEF Polypropylene welded system

Prefabrication and engineering support ensure the safe operation of a major industrial refining plant

Customer reference: Chiyoda Corporation, Japan

The PROGEF piping system was chosen for its safety, durability, and cost-effectiveness in applications involving harsh chemicals.

GF Piping Systems meets tight deadlines and strict quality requirements thanks to a complete solution approach



When the Chiyoda Corporation, a major Japanese EPC (Engineering, Procurement, and Construction) company, was tasked to construct a refining system for the new plant, a complete PROGEF solution by long-time partner GF Piping Systems was the preferred choice.

Project background

In order to build a refining system for a massive plant project, Chiyoda required a piping system that could ensure both operational and employee safety with durable materials, tight tolerances, and high-quality welds. At the same time, the project demanded a cost-effective solution that could reduce downtimes with long-lasting materials.

Selected technical solution

PROGEF is a welded polypropylene piping system comprised of pipes, fittings, valves, related jointing as well as measurement and control instrumentation that are suitable for numerous fields of application across industries. It provides unique mechanical properties, chemical resistance, outstanding weldability, and an exceptionally high resistance to thermal distortion due to a uniform material structure. To meet the requirements of the most demanding applications, GF Piping Systems also offers additional services, ranging from online calculation tools and CAD libraries to chemical resistance support and training courses. 18 prefabrication facilities around the world facilitate customization and a quick turnaround.

Achieved improvement

GF Piping Systems shares a ten-year partnership with Chiyoda and was therefore able to support the company with extensive know-how in the fields of polymers and prefabrication throughout the project. In addition to supplying 16 kilometers of pipe, 44,000 fittings, and 2,200 valves, GF Piping Systems successfully combined the efforts of four of its major prefabrication facilities to provide over 1,000 easy-to-install PROGEF spools in order to meet the extremely tight deadlines of this project. Thanks to the combined efforts of Chiyoda and GF Piping Systems, the plant will benefit from a safe, long-lasting, and cost-effective refining solution.



The plant will benefit from a safe, long-lasting, and cost-effective electrolytic refining solution when it is operational at the end of 2024.



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Customer benefits

- Due to a strong partnership with Chiyoda, GF Piping Systems was able to provide precise components that meet the highest quality and safety standards.
- GF's high performance material PROGEF Polypropylene welded system ensures a long and cost-effective service life.
- Global prefabrication capabilities allowed GF Piping Systems to successfully meet tight deadlines and a large order volume.

Where next?



Speak to an expert



Learn more about our PROGEF system



Learn more about our Prefabrication capabilities



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www.gfps.com/our-locations

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