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**GF Process Automation and PVC SCH 80 Piping Systems**

# **Aquatic Excellence: Precision Water Quality for 32,000 Animals**

**Shedd Aquarium, Chicago, IL**

**Enhancing marine life support systems  
through advanced water quality solutions**



# Shedd Aquarium Chicago, Illinois

As one of the largest indoor aquariums in the world, Shedd Aquarium is home to over 32,000 aquatic animals and welcomes nearly two million visitors each year. Maintaining optimal water quality across more than five million gallons of water requires continuous monitoring. To achieve this, Shedd Aquarium specified GF products when modernizing its water management systems.

## Project background

GF Piping Systems provided Shedd Aquarium with customized instrumentation, automation and flow control solutions designed to meet the demanding needs of its diverse aquatic environments. These systems allow for continuous monitoring and precise control of key water quality parameters while minimizing disruptions during maintenance. The integrated technologies help ensure that critical life support systems remain accurate and adaptable to future upgrades.

## Selected technical solution

Thanks to GF Piping Systems, Shedd Aquarium has significantly improved its operational efficiency, system reliability and sustainability. Real-time data and seamless sensor maintenance allow the aquarium's staff to monitor and control complex life support systems with precision, which is critical for both animal health and exhibit quality.

## Customer comment

"I really like GF products because of their adaptability, the nonmetal construction, the longevity and reliability. GF has an understanding of what we're trying to achieve here, and they've allowed us to feature new instrumentation."

Nick Kaiser  
Systems Operations Manager, Shedd Aquarium

## Where next?



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an expert



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Shedd Aquarium  
video

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[www.gfps.com](http://www.gfps.com)



Water enters the exhibits after deaeration. The ORP probes are installed in-line using wet-tap devices, so they can be pulled for maintenance without getting wet or shutting anything down.



GF's complete range of pipe, valves, fittings, sensors, and instrument technologies offer flexibility in materials to meet specific application demands. FlowtraMag flow meters were instrumental for accurate measurements in tight spaces.

## Customer benefits

- **Wet-Tap assemblies allow probe removal without shutting down water systems. This keeps operations running smoothly and reduces maintenance disruptions.**
- **Advanced sensors monitor key parameters like pH, ORP, and dissolved oxygen with high accuracy.**
- **GF's flow meters offer long-lasting performance with minimal upkeep. Their compact, corrosion-resistant design also supports sustainable upgrades.**

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