

Steri offers a complete solution for clean-in-place and cake wash requirements. When CIP is required, ZWAG filters can be fitted with optional customized spray heads, bars and balls that will provide complete washing of all interior surfaces. CIP features are beneficial in reducing cycle times, as disassembly for cleaning purposes can be avoided.

## Clean In Place (CIP)



*Custom Spray Ball Assemblies*

Depending on your requirements, the clean in place components can be used during processing to aid in rinsing any product clinging to the walls and agitator.

### In-House CIP Testing

First article testing can be performed using riboflavin to confirm total cleansing of all interior surfaces.



*CIP Testing at Steri*

Steri utilizes 3D computer modeling techniques to visualize spray patterns and verify coverage. To optimize CIP quality, spray angles, spray head types and spray head location patterns are modeled during the design phase. So even before we make the first weld on a new ZWAG filter, 100% complete spray pattern coverage is clear and certain.

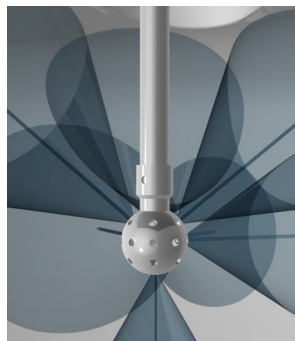
## Cake Washing



*Cake Wash Spray Ball*

### Wash for Quality

Liquid can be sprayed evenly over the cake for thorough diffusion washing. For greater purity, the cake can be re-slurried.



*CIP 3D Modeling*

The same 3D computer modeling techniques used to design the CIP system are also applied to cake washing to visualize spray patterns and verify coverage. To optimize cake washing quality, spray angles, spray head types and spray head location patterns are modeled during the design phase. So even before we make the first weld on a new ZWAG filter, 100% complete spray pattern coverage is clear and certain.