

CORNING

The future flows through
Corning® Advanced-Flow™ reactors

Corning® Advanced-Flow™ G4 Ceramic Reactor

Provides high throughput capability and cost-competitive production

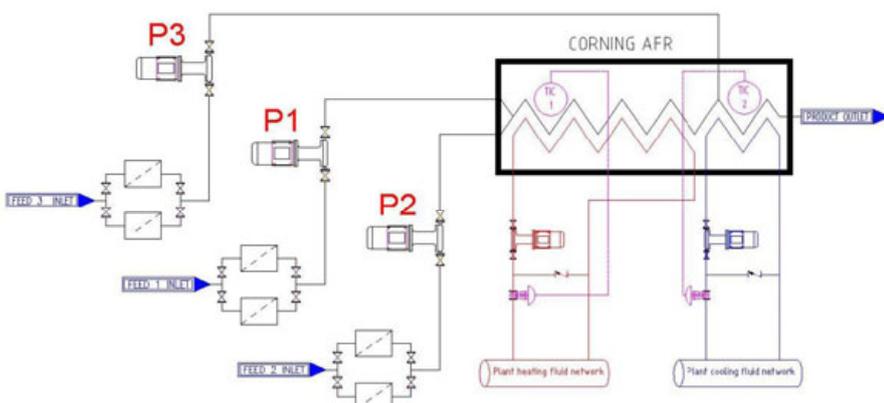
Corning is now offering a ceramic Advanced-Flow™ reactor that enables very high flow throughput and outstanding thermal heat transfer performance. This is made possible through the superior thermal conductivity of the ceramic in combination with the unique design qualities of the Advanced-Flow™ reactor.

From the combined expertise of Corning and Mersen/Boostec, this ceramic reactor makes simple, high quality, and cost effective continuous-flow chemical processing possible.



Features

- Large internal volume
- High flexibility
- Metal-free reaction paths
- Scalability: throughput factor increase of > 30 seamless from G1 to G4
- Processing capability up to 300 kg/h



Integration of Corning®
Advanced-Flow™ G4 Ceramic
Reactor in Production Plant

Reactor Elements

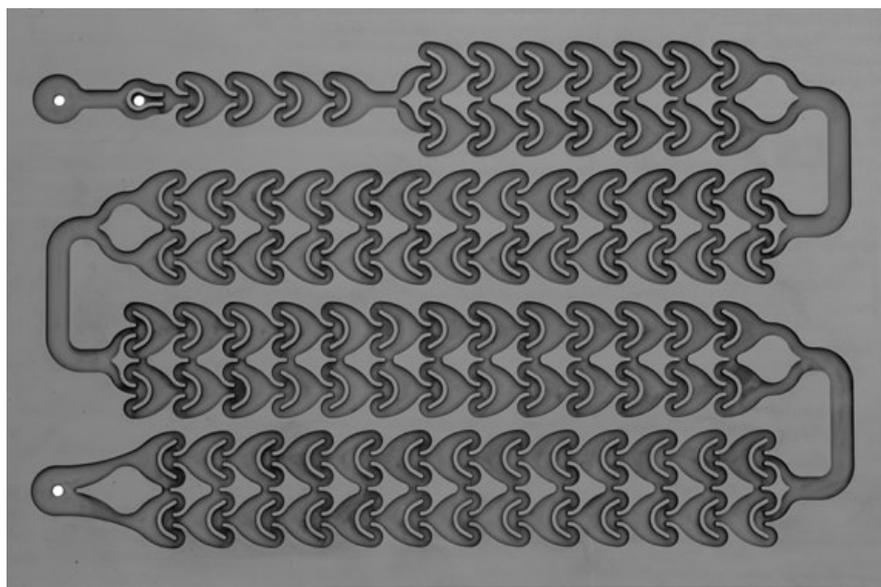
The G4 reactor comprises sintered ceramic fluidic modules, perfluoro-elastomer gaskets, and a full stainless steel frame, all fully compatible with the chemical production environment.

Boundary Conditions

Operating Range	Process Path	Heat Exchange Path
Temperature (°C)	-60 to 200	-60 to 200
Pressure (barg)	Up to 18	Up to 6

Various Fluidic Module Designs Available

Design concepts are the same as those in Advanced-Flow G1 to G3 Reactors



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