

Pressure Reactor

Laboratory pressure reactor system - Pressure, performance, and safety

Global Pressure Reactor can withstand up to 10 barG pressure in an all-glass vessel design. Every glass reactor is pressure tested and has a protective covering for maximal safety. There is a unique removable glass shaft in the flush valve for easy cleaning, and the reactor lid has 8 ports to accommodate various accessories. The magnetic stirrer seal provides protection against pressure leakage and is made of SS316 (Option: Hastelloy®) for excellent corrosion resistance.

General specifications

Reactor volume	: 0.25 to 5.0 liter
Pressure	: -1 (FV) to +60 / 200 bar
Temperature	: -20 °C to +250 °C
Material	: Borosilicate glass 3.3, stainless steel, Hastelloy®

This multipurpose pressure reactor system is designed for the use of interchangeable glass and steel pressure vessels. Safety features guarantee safe reactions under pressure. The glass reactors ensure high resistance against acids, while allowing visual process control and monitoring. This is also possible under high pressure by using steel pressure vessels with sight glasses. Various low to high torque magnetic drives ensure efficient mixing and stirring low to high viscosity process media as well as excellent heat transfer.

Typical applications

- Hydrogenation reactor
- Polymerization reactor
- Synthesis reactor
- Catalyst testing / evaluation
- Catalytic reactor
- Crystallization
- Chemical research, synthesis
- Petrochemical research
- Corrosion Measurement
- Upstream research
- Biomass research
- Biopolymer research
- Biorefinery research
- Biofuels research
- Zeolite synthesis
- Nanoparticle synthesis
- Corrosion testing autoclave

