Pressure Reactor Datasheet



Product Description

SR-TEK Pressure Reactor is a robust, pressure vessel designed for applications requiring both absolute vacuum and high positive pressure. The reactor is engineered for laboratory and heavy duty industrial use, built from stainless steel 304 as standard (316 optional) and rated from -1 bar (vacuum) up to 15 bar pressure. It is compatible with a wide range of chemicals and fluids and offers optional upgrades in material and fitting configurations.

Typical Application

Ideal for processes involving pressurised reactions, fluid containment under pressure, degassing under vacuum, and testing in controlled environments. This system supports temperature-sensitive and pressure-sensitive operations in laboratory, R&D, or production settings.

Technical Information

Construction:	Stainless Steel 303/304 (316 optional)
Pressure Range:	-1 bar (vacuum) to 15 bar
Operating Temperature:	4°C to 40°C
Seal Type:	FKM O-Ring (Other Material available, dependent on application)
Material Compatibility:	Suited for a wide range of fluids and gases
Volume Options:	1 and 2L
Connections:	3x ¼”NPT ports on the lid (bottom and side outlet option)
Optional Features:	pressure relief valve, air management components, stainless steel 316, additional ports

Features

- -1 to 15 bar pressure rating
- Temperature operating range: 4°C to 40°C
- Stainless steel 303/304 standard; 316 optional
- Modular design
- Easy integration into existing systems
- Chemically resistant
- 12-month warranty

Health & Safety In Use

This pressure reactor is designed and built in accordance with standard pressure vessel regulations. It is safe for use up to 15 bar provided that:

- All fittings are pressure-rated and properly installed
- Safety relief valves and gauges are used where applicable
- The unit is used within the defined temperature range (4°C – 40°C)

Always depressurise the vessel fully before opening.

Disclaimer

The data, information, and values provided in this technical data sheet are based on specific test conditions and intended for guidance only. It is the user's responsibility to verify the suitability of the product for their particular application under real working conditions. SR-TEK Ltd accepts no liability for misuse or damage caused by improper use. Product design and specifications are subject to change without notice.