



pinto

High pressure reactor

High pressure reactor pinto

Vol. ml
500 / 1000

Pres PS bar
250

Our high-pressure autoclave pinto reactor combines the technology and functionality of a pneumatic professional model with a fundamentally different chassis. A 4-sided tubular frame in chrome steel provides maximum ground clearance for the drain valve or collection vessel and, in addition, the cooling water valve is easily accessible.



High pressure reactors are our world

Our high-pressure reactors are characterized by the high quality workmanship of all components as well as by their exceptional ease of use. They have a modular design and are available in stainless steel or special steels in volumes from 60 ml to 100 litres. We offer solutions from 6 bar – 700 bar at a maximum of 350 °C.

Production of nanocoatings

The pinto reactor can be used for the synthesis of nanoparticles by hydrathermal synthesis, where substances are crystallized from aqueous high-temperature solutions at high steam pressures. The optical cells used in the autoclave are used to monitor the reactions using UV-VIS or RAMAN spectrometry. The nanoparticles are used to develop nanocoatings for glass for buildings, cars, solar panels, and more. Nanocoating can have diverse functions, such as reflecting thermal radiation, glare-free vision, privacy protection, and temperature barrier on the surface.

Specifications

Nominal volume	500, 1000 ml
Working pressure	200, 250 bar
Working temperature	200 °C
Material	WNr. 1.4435 or WNr. 2.4602
Jaw closure	Quick release
O-ring	Viton O-ring lying in autoclave vessel
Magnetic stirrer drive	funrun in combination with three-phase motor 120W
Torque of magnetic coupling	60 Ncm, respectively 90 Ncm
Output speed	With ball bearing 0-1'300 rpm, with plain bearing 0-1'200 rpm.
Pressure measurement	Pressure station on the chassis with manometer and pressure transducer 0-250 bar
Valve connections	Needle valve for gas supply Needle valve for pressure relief Needle valve with dip tube for sampling and emptying
Bursting disc holder	Equipped with bursting disc 250 bar
Immersion tube	With temperature sensor type K or Pt100 4p for fluid heating version
Stirring element	Diagonal blade stirrer
Heating	Electric heating or fluid heating

Contact

For more information about our range of customizable high pressure reactor solutions, contact us.

Contact us

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