High pressure reactor RVDS-1-2000

The standard equipment of the reactor RVDS-1-2000:

- Reactor vessel – 1 ea.
- Reactor lid – 1 ea.
- PTFE lid lining – 1ea.
- PTFE sealing – 1 ea.
- PTFE insert – 1ea.
- Pressure measurement gauge (100 bar) – 1 ea.
- Rupture disc with holder – 1ea.
- Needle valve – 2 ea.
- Deep tube for temperature probe – 1 ea.
- Clamp – 1 ea.
- Sealing O-ring – 1 ea.
- Two-bladed stirrer -1 ea.

High-pressure reactor RVDS-1-2000 is designed for carrying out chemical reactions and synthesis at high pressure and temperature conditions. Permitted operating pressure is 60 bar at 250°C. Stirring of the reaction mixture is carried out with a propeller or an anchor stirrer through the magnetic coupling with overhead stirrer. Special electric heating unit with programmable controller is designed for controlled and uniform heating of the reaction mixture. Heating unit is also has a cooling circuit. The reactor is equipped with all necessary fittings. To protect the reactor vessel and lid from the effects of corrosive environment reactor vessel insert and lid cover are made of PTFE. The reactor design allows to change functionality according to the required task. For safe operation reactor is fitted with a rupture disc.

RVD-3-2000	Specifications
Volume	2000 ml
Insert volume	1500 ml
Operating pressure	60 bar
Max. temperature	250 °C
Vessel and lid material	SS AISI 316 L
Number of connections	6
Heating	Heating and cooling unit (electric).
Stirring	Overhead stirrer
Cooling	Natural
Dimensions (h × w)	524 x 247 mm
Internal vessel diameter	94 mm
Vessel depth	288 mm
Internal insert diameter	85 mm
Insert depth	279 mm
Weight	16,00 kg

Accessories and options:

- Sampling vessel.
- Heating and cooling unit (electric).
- Magnetic clutch (60 or 100 Nm).
- Overhead stirrer.
- Heating and cooling unit (liquid heat exchanger).