

List of technical questions for premex-autoclaves

End user:

Basic information

Nominal volume ml
 Working volume ml
 Design pressure bar
 Operating pressure bar
 Design temperature °C
 Operating temperature °C

Autoclave lock

- a) Jaw lock (fast closing system), up to 200 bar max.
 b) Screw lock: bolts and nuts

Autoclave seal

- a) O-ring, EPDM up to 180°C
 b) O-ring, Viton up to 240°C
 c) O-ring, Kalrez up to 300°C
 d) Flat seal, pure silver, up to 350°C
 e) Cutting ring, metal on metal
 f) Others

Material

WNr. 1.4435
 WNr. 1.4571
 WNr. 1.4980
 Hastelloy C22
 Titan Grade 2

*** *The material depends on the media used !* ***

Heating

- a) Electrical heating kW in the outer shell
 b) Double shell design for heat transfer medium (oil)

Cooling

- a) Water cooling in the outer shell via cooling spiral (standard)
 b) Water cooling in medium via cooling spiral (for exothermic reactions)

Stirring drive

- a) Planetary roll drive continuously adjustable from 0-1150 rpm.
 a) Planetary roll drive continuously adjustable from 0-550 rpm.
 b) Rotary current motor, activated via frequency converter and adjustable by potentiometer
 Nominal power: 120 Watt / 250 Watt / 370 Watt

- | | | |
|------------------------------------|--|--|
| Magnetic coupling | a) Torque Ncm
b) Valve connection to clean magnetic coupling or gas supply | <input type="checkbox"/>
<input type="checkbox"/> |
| Stirring element | a) Gas injection stirrer
b) Gas injection stirrer with baffle
c) Diagonal blade stirrer
d) Anchor stirrer
e) Disk stirrer
f) Others | <input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/> |
| Fittings on autoclave cover | Temperature measurement
a) Temperature sensor, type K
c) Temperature sensor, type Pt 100
d) Others | <input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/> |
| | Pressure measurement
a) Manometer (analogue)
b) Pressure transducer (digital)
c) Pressure transducer with display | <input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/> |
| | Sampling
a) Dip tube to the bottom of the autoclave vessel
b) Dip tube with frit | <input type="checkbox"/>
<input type="checkbox"/> |
| | Valve connections
1. Product supply
2. Gas supply
3. Pressure release
4. Safety...
a) Spring pressure safety valve or
b) Bursting disc holder with bursting disc | <input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/> |
| Options/specialities | Use of catalyst
a) Catalyst rotation cage | <input type="checkbox"/> |
| | Inspection glass
a) Inspection glass on autoclave lid
b) Inspection glass lengthwise on the autoclave vessel | <input type="checkbox"/>
<input type="checkbox"/> |
| | Medium measurements
a) pH measurement up to 60 bar max., 130 °C | <input type="checkbox"/> |

