



50 ltr Pressure Vessel

| Model | P3403 | P3413 | P3405 | P3415 |
|--------------------------|---|---------|----------------|---------|
| Design pressure | 50 bar | 100 bar | 50 bar | 100 bar |
| Design temperature | 300°C | | 500°C | |
| Material of Construction | SS316, SS316L, Hastelloy B/C, Inconel, Monel, Nickel, Titanium, Zirconium | | | |
| Vessel ID | 355 mm | 343 mm | 355 mm | 343 mm |
| Vessel internal height | 558 mm | 600 mm | 558 mm | 600 mm |
| Head mounting style | Removable head and vessel design | | | |
| Heating ¹ | External electrical ceramic band heater with cladding & insulation. ¹ | | | |
| External fittings | <ul style="list-style-type: none"> • Pressure gauge with vacuum protection • Safety rupture disc (Inconel) with vacuum protection • Gas inlet & liquid sampling valve mounted on common dip tube • Vent needle valve • 1" ball valve for powder / liquid inlet with funnel, • Flush bottom valve 25mm dia. Note: All needle valves shall be ½ " NPT end connections | | | |
| Internal fittings | <ul style="list-style-type: none"> • Helical Cooling coil • Thermowell (with RTD PT100 temperature sensor) • Dip tube | | | |
| Gasket | PTFE Gasket | | Grafoil Gasket | |
| Closure Type | Split clamp with clamp bolts | | | |
| Control Panel | SS Control panel with programmable P.I.D temperature controller & high temperature alarm | | | |
| Power Supply | 3φ, 415VAC 50 Hz | | | |
| Mounting | SS Trolley | | | |
| Auto Cooling System | Auto cooling system with water pump, for forced cooling SS tank & hose pipes for exothermic reactions & faster cooling. | | | |

Note:

1- Cascade temperature controller shall be provided for 500°C