



# 100 ltr Pressure Vessel

Model	P3503	P3513	P3505	P3515
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	456 mm	440 mm	456 mm	440 mm
Vessel internal height	699 mm	739 mm	699 mm	739 mm
Head mounting style	Removable head and vessel design			
Heating <sup>1</sup>	External electrical ceramic band heater with cladding & insulation. <sup>1</sup>			
External fittings	<ul style="list-style-type: none"> <li>• Pressure gauge with vacuum protection</li> <li>• Safety rupture disc (Inconel) with vacuum protection</li> <li>• Gas inlet &amp; liquid sampling valve mounted on common dip tube</li> <li>• Vent needle valve</li> <li>• 1" ball valve for powder / liquid inlet with funnel,</li> <li>• Flush bottom valve 25mm dia.</li> </ul> Note: All needle valves shall be ¼" NPT end connections			
Internal fittings	<ul style="list-style-type: none"> <li>• Helical Cooling coil</li> <li>• Thermowell (with RTD PT100 temperature sensor)</li> <li>• Dip tube</li> </ul>			
Gasket	PTFE Gasket		Spiral wound 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