

Non-Stirred Pressure Vessels

Parr offers a broad selection of non-stirred pressure vessels in convenient styles, sizes and pressure ranges for many laboratory uses. Recent additions to this line have included new sizes, new temperature and pressure

combinations and new self-sealing closures, all designed to provide convenient vessels for laboratory procedures that must be performed under pressure at elevated temperatures.

Pressure Vessel Selection Procedure

The steps to be followed in selecting a non-stirred pressure vessel are similar to those used for a stirred reactor. Selection begins with the Guide to Non-Stirred Vessels, from which the user can identify the Model Number for vessels in a range of sizes with temperature and pressure

ratings suitable for the intended application. Detailed specifications and catalog numbers can then be found on the referenced page. After the specifications have been established, the options and accessories required to customize a complete pressure vessel system can be selected.

Guide to Parr Non-Stirred Vessels

<i>Model Number</i>	<i>Vessel Style</i>	<i>Vessel Size</i>	<i>Max. Press. psi (bar)</i>	<i>Max. Temp. °C</i>	<i>See Page Number</i>
4701-4714	Screw Cap	22-45 mL	1700 (115)	250	118
4740-4742	High Pressure	25-75 mL	8500 (575)	540	119
4791-4793	Split Ring	25-100 mL	3000 (200)	350	120
4750-4755	Split Ring	125-200 mL	3000 (200)	350	121
4760-4774	Split Ring	160-600 mL	3000 (200)	350	122-123
4651-4653	High Pressure	250-1000 mL	5000 (345)	500	126
4605-4626	High Pressure	600-1200 mL	5000 (345)	350	125
4601-4622	Split Ring	1000-2000 mL	1900 (130)	350	124
4661-4664	Split Ring	1 & 2 gallon	1900 (130)	350	127
4681-4684	High Pressure	1000-1800 mL	5000 (345)	500	128
4671-4674	High Pressure	1 & 1.5 gallon	3000 (200)	500	129
4676-4679*	Split Ring	2.6 & 5 gallon	1900 (130)	350	130

*May be modified for pressures to 5000 psi & temps to 500°C.



Model 4601, 1000 mL Vessel

Blank Heads

Many of these non-stirred vessels are offered with a blank head with no drilled holes or fittings. These should be considered only as a starting point for custom built vessels as they do not include a safety rupture disc which good practice, safety codes, and common sense dictate should be installed on all pressure vessels. Users who take delivery of vessels without safety relief devices installed must also take the responsibility for installing adequate protective devices before the vessel is placed in service.



Parr General Purpose Vessels with Volumes from 22 to 2000 mL

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* May require modifications of vessel to install



Available Accessories Include Heaters, Temperature Controllers, Valves, Gage Block Assemblies, and Gas Filling Hoses