

# Series 4740 High Pressure / High Temp. Vessels: 25 & 75 mL

# 4740

These are the smallest of Parr High Pressure, High Temperature vessels. They have a 1 inch inside diameter and offer volumes of 25 or 75 mL. These vessels are closed with an alloy steel screw cap which includes six cap screws to develop the sealing force on a flat, flexible graphite gasket. Interchangeable PTFE gaskets are also available for users who need the high pressure capabilities provided by these vessels, but who do not need to operate above 350° C. These vessels are available in all of the standard materials currently offered by Parr, although some of these materials will limit the maximum pressures and temperatures available.

Because of their small size and the nature of these vessels, they are normally heated in a furnace or similar general purpose heating device. When equipped with the standard high strength steel screw cap, the maximum temperature and pressure ratings will be severely limited if the screw cap is heated directly as well as the body of the vessel. Special high temperature alloys are available for users who wish to heat these vessels in furnace and take advantage of the full design temperature and pressure limits.

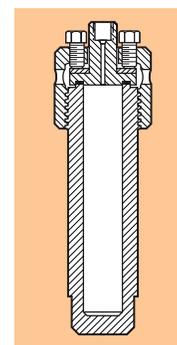
Only one head opening is available for these vessels. It is designed to accept the 4316 Gage Block Assembly. Extended connection tubes are available to keep the gage block away from the hot zone within a furnace. The bottom of the vessel can be fitted with a second opening for users who wish to install an internal thermocouple or an additional inlet or outlet.



Model 4740, 75 mL Vessel, with Gage Block Assembly



Model 4742, 25 mL Vessel, with Gage Block Assembly



Cross Section 4740

Series 4740 Pressure Vessel Specifications		
Shaded bar indicates specifications that change within series.		
<b>Model Number</b>	<b>4740</b>	<b>4742</b>
<b>Sizes, mL</b>	75	25
<b>Maximum Pressure @ 350 °C</b>	8500 psi (585 bar)	
<b>Maximum Temperature</b>	540 °C	
Max. Pressure at Max. Temp., psi (bar)	1850 (125)	
Closure (Cap Screws)	Screw Cap (6)	
Gasket	Flat - Flexible Graphite	
<b>Vessel Dimensions</b>		
Inside Diameter, inches	1.0	
Inside Depth, inches	5.6	1.7
Weight of Vessel, pounds	5	4
<b>Head Style</b>		
Opening	"A" Socket	
Thermowell	No	
<b>Heater</b>	Not Available	
<b>Maximum Head Openings</b>	1	
<b>Recommended Gage Block</b>	4316	