

## Type: **High Pressure / High Temperature**

Vessel Mounting: Moveable

Vessel Sizes, mL: **25 & 75** 

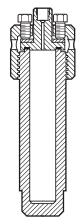
Maximum Pressure MAWP Rating, psi (bar): **8500 (586)** 

Maximum Operating Temp., °C: **538** 

## Series 4740 HP/HT Pressure Vessels, 25 & 75 mL

**These high pressure/high temperature pressure vessels have a 1-inch.** 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 compression bolts 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. Maximum pressure drops quickly at temperatures above 350 °C to a rating of 1850 psi (125 bar) at 538 °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.

The head of these vessels can only accommodate one opening. It is designed to accept the 4310A Gage Block Assembly which can be furnished with or without a thermocouple. Parr offers the 4921 Bench Top Ceramic Fiber heater for use with the 75 mL, 4740 Vessel only. The smaller 25 mL Vessels are generally heated in an oven, bath, furnace or similar general purpose heater (not available from Parr)



4740-75 mL Cross Section

Series 4740 Pressure Vessel Specifications								
Shad	ed bar indicates specifications that change wit	hin series.						
Approximate Volume, mL	25	75						
Maximum Pressure								
Head & Cylinder of T316SS With Standard Screw Cap	8500 psi (586 bar) @ 350 °C 4100 psi (282 bar) @ 500 °C 1850 psi (127 bar) @ 538 °C							
Head & Cylinder of T316SS With Alloy C-276 Screw Cap	8500 psi (586 bar) @ 350 °C 8000 psi (551 bar) @ 500 °C 7900 psi (544 bar) @ 538 °C							
Maximum Temperature								
With PTFE Flat Gasket	350 °C							
With Flexible Graphite Flat Gasket	500-538 °C							
Vessel Details								
Mounting Style	Moveable							
Closure	Screw Cap (6 Compression Bolts)							
Head Seal	Flat Gasket							
Head Opening Options	One head opening ("A" socket, or rupture disc assembly port) Custom port option (Contact our technical sales department to discuss options)							
Maximum Head Opening	1							
Temperature Measurement (Optional)	Thermocouple (in cylinder bottom or in optional gage block assembly)							
Stand and Heater (optional)								
Stand type		Bench Top Stand with Heater						
Heater Style	N/A	Ceramic Fiber						
Heater Power, Watts	N/A	700						
Maximum Load, amps, 115V / 230V		6 / 3						
Weight and Dimensions								
Cylinder I.D. x Depth, inches	1.0 x 1.7	1.0 x 5.6						
Vessel Assembly Weight, pounds*	4	6						
Cylinder Weight, pounds	1.4	3.2						
*Vessel weig Vessel weigh	ht is based on a moveable head vessel with a p t will vary based on head configuration choice	lugged "A" socket. and fitting options.						
Other options available	e. See Ordering Guide, visit <u>www.parrinst.com</u> ,	or call for more information.						

## Series 4740 Ordering Guide

An example order number for a vessel in this series is: 4740-75mL-FG-SS-A

A composite identification number to be used when ordering a 4740 Series Pressure Vessel System can be developed by combining individual symbols from the separate sections below. For more information on how to use this ordering guide, please see page 27.

A Vessel Volume     -25mL   25 mL, 1" ID     -75mL   75 mL, 1" ID     B Gasket / Maximum Temperature     -T   PTFE Gasket, 350 °C     -FG   Flexible Graphite Flat Gasket, 500-538 °C     C Materials of Construction     -SS   T316 Stainless Steel     -C20   Alloy 20     MO   Alloy 400     -IN600   Alloy 625     -HB   Alloy 625     -HB   Alloy C-276     -NI   Nickel 200*     -T12   Titanium Grade 2*     -T14   Titanium Grade 702*     -ZR702   Zirconium Grade 705*     * Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys.     D Head Configuration     -RD   Rupture disc port with rupture disc assembly & disc.     -A   One head opening, "A" socket     -NS   Non-standard, custom head opening     -HC   Alloy C-276 Screw Cap for HPHT     -TC   Thermocouple (in cylinder bottom)     -Gage block assembly & disc.   -A     One head opening, "A" socket   -NS     NOn-standard, custom head opening  <						
-75mL75 mL, 1" IDBGasket / Maximum Temperature-TPTFE Gasket, 350 °C-FGFlexible Graphite Flat Gasket, 500-538 °CCMaterials of Construction-SST316 Stainless Steel-C20Alloy 20-MOAlloy 400-IN600Alloy 600-IN625Alloy 625-HBAlloy C-276-NINickel 200*-T12Titanium Grade 2*-T14Titanium Grade 2*-T14Titanium Grade 702*-ZR702Zirconium Grade 705** Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys.DHead Configuration-RDRupture disc port with rupture disc assembly & disc-AOne head opening, "A" socket-NSNon-standard, custom head openingCheck all needed)-HCSCAlloy C-276 Screw Cap for HPHT-TCThermocouple (in cylinder bottom)-4310AGage block assembly with thermocouple (for head with "A" socket opening)-4310ATCGage block assembly with thermocouple (for head with "A" socket opening)-No SymbolNone-10,00010,000 psi / 690 bar-75007500 psi / 517 bar-50005000 psi / 345 bar						
B Gasket / Maximum Temperature     -T   PTFE Gasket, 350 °C     -FG   Flexible Graphite Flat Gasket, 500-538 °C     C   Materials of Construction     -SS   T316 Stainless Steel     -C20   Alloy 20     -MO   Alloy 400     -IN600   Alloy 600     -IN625   Alloy 625     -HB   Alloy C-276     -NI   Nickel 200*     -T12   Titanium Grade 2*     -T14   Titanium Grade 702*     -ZR702   Zirconium Grade 705*     * Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys.     D   Head Configuration     -RD   Rupture disc port with rupture disc assembly & disc     -A   One head opening, "A" socket     -NS   Non-standard, custom head opening     Goptional Fittings & Custom Options (Check all needed)     -HCSC   Alloy C-276 Screw Cap for HPHT     -TC   Thermocouple (in cylinder bottom)     -4310A   Gage block assembly (for head with "A" socket opening)     -4310A   Gage block assembly with thermocouple (for head with "A" socket opening)     -4310ATC   Non						
-TPTFE Gasket, 350 °C-FGFlexible Graphite Flat Gasket, 500-538 °CCMaterials of Construction-SST316 Stainless Steel-C20Alloy 20-M0Alloy 400-IN600Alloy 600-IN625Alloy 625-HBAlloy B-2 / B-3-HCAlloy C-276-NINickel 200*-T12Titanium Grade 2*-T14Titanium Grade 2*-ZR702Zirconium Grade 702*-ZR705Zirconium Grade 705** Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys.DHead Configuration-RDRupture disc port with rupture disc assembly & disc-AOne head opening, "A" socket-NSNon-standard, custom head opening-HCSCAlloy C-276 Screw Cap for HPHT-TCThermocouple (in cylinder bottom)-4310AGage block assembly (for head with "A" socket opening)-4310ATCSocket opening)-4310ATCNone-10,00010,000 psi / 690 bar-75007500 psi / 517 bar-50005000 psi / 345 bar						
FG   Flexible Graphite Flat Gasket, 500-538 °C     C   Materials of Construction     -SS   T316 Stainless Steel     -C20   Alloy 20     -M0   Alloy 400     -IN600   Alloy 600     -IN625   Alloy 625     -HB   Alloy B-2 / B-3     -HC   Alloy C-276     -NI   Nickel 200*     -T12   Titanium Grade 2*     -T14   Titanium Grade 702*     -ZR702   Zirconium Grade 705*     * Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys.     D   Head Configuration     -RD   Rupture disc port with rupture disc assembly & disc     -A   One head opening, "A" socket     -NS   Non-standard, custom head opening     -HCSC   Alloy C-276 Screw Cap for HPHT     -TC   Thermocouple (in cylinder bottom)     -4310A   Gage block assembly with thermocouple (in cylinder bottom)     -4310A   Gage block assembly with thermocouple (for head with "A" socket opening)     •No symbol   None     -10,000   10,000 psi / 690 bar     -7500   7500 psi / 517 bar	B Gasket / Maximum Temperature					
-ris   500-538 °C     C   Materials of Construction     -SS   T316 Stainless Steel     -C20   Alloy 20     -M0   Alloy 400     -IN600   Alloy 600     -IN625   Alloy B-2 / B-3     -HC   Alloy C-276     -NI   Nickel 200*     -T12   Titanium Grade 2*     -T14   Titanium Grade 702*     -ZR702   Zirconium Grade 705*     * Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys.     D   Head Configuration     -RD   Rupture disc port with rupture disc assembly & disc     -A   One head opening, "A" socket     -NS   Non-standard, custom head opening     Check all needed)   -HOT     -TC   Thermocouple (in cylinder bottom)     -4310A   Gage block assembly with thermocouple (for head with "A" socket opening)     -4310ATC   Gage block assembly with thermocouple (for head with "A" socket opening)     -No Symbol   None     -10,000   10,000 psi / 690 bar     -7500   7500 psi / 517 bar     -5000   5000 psi / 345 bar	-T	PTFE Gasket, 350 °C				
Solution500-538 °CCMaterials of Construction-SST316 Stainless Steel-C20Alloy 20-M0Alloy 400-IN600Alloy 600-IN625Alloy 625-HBAlloy B-2 / B-3-HCAlloy C-276-NINickel 200*-T12Titanium Grade 2*-T14Titanium Grade 4*-ZR702Zirconium Grade 702*-ZR705Zirconium Grade 705** Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys.DHead Configuration-RDRupture disc port with rupture disc assembly & disc-AOne head opening, "A" socket-NSNon-standard, custom head openingC Optional Fittings & Custom Options (Check all needed)-HCSCAlloy C-276 Screw Cap for HPHT-TCThermocouple (in cylinder bottom)-4310AGage block assembly with "A" socket opening)-4310ATCGage block assembly with "A" socket opening)-No SymbolNone-10,00010,000 psi / 690 bar-75007500 psi / 517 bar-50005000 psi / 345 bar	-FG					
-SST316 Stainless Steel-C20Alloy 20-M0Alloy 400-IN600Alloy 600-IN625Alloy 625-HBAlloy 8-2 / B-3-HCAlloy C-276-NINickel 200*-T12Titanium Grade 2*-T14Titanium Grade 4*-ZR702Zirconium Grade 705** Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys. <b>D</b> Head Configuration-RDRupture disc port with rupture disc assembly & disc-AOne head opening, "A" socket-NSNon-standard, custom head opening-RDAlloy C-276 Screw Cap for HPHT-TCThermocouple (in cylinder bottom)-4310AGage block assembly with thermocouple (for head with "A" socket opening)-4310ATCSege Option-No SymbolNone-10,00010,000 psi / 690 bar-75007500 psi / 517 bar-50005000 psi / 345 bar	10	500-538 °C				
-C20Alloy 20-M0Alloy 400-IN600Alloy 600-IN625Alloy 625-HBAlloy C-276-NINickel 200*-TI2Titanium Grade 2*-TI4Titanium Grade 4*-ZR702Zirconium Grade 702*-ZR705Zirconium Grade 705** Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys. <b>D</b> Head Configuration-RDRupture disc port with rupture disc assembly & disc-AOne head opening, "A" socket-NSNon-standard, custom head opening-RDAlloy C-276 Screw Cap for HPHT-TCThermocouple (in cylinder bottom)-4310AGage block assembly with "A" socket opening)-4310ATCGage block assembly with "A" socket opening)-No SymbolNone-10,00010,000 psi / 690 bar-75007500 psi / 517 bar-50005000 psi / 345 bar	C Material	s of Construction				
-M0Alloy 400-IN600Alloy 600-IN625Alloy 625-HBAlloy C-276-HCAlloy C-276-NINickel 200*-T12Titanium Grade 2*-T14Titanium Grade 4*-ZR702Zirconium Grade 702*-ZR705Zirconium Grade 705** Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys. <b>D</b> Head Configuration-RDRupture disc port with rupture disc assembly & disc-AOne head opening, "A" socket-NSNon-standard, custom head opening-RDAlloy C-276 Screw Cap for HPHT-TCThermocouple (in cylinder bottom)-4310AGage block assembly with thermocouple (for head with "A" socket opening)-4310ATCGage block assembly with thermocouple (for head with "A" socket opening)-No SymbolNone-10,00010,000 psi / 690 bar-75007500 psi / 517 bar-50005000 psi / 345 bar	-SS	T316 Stainless Steel				
-IN600Alloy 600-IN625Alloy 625-HBAlloy B-2 / B-3-HCAlloy C-276-NINickel 200*-T12Titanium Grade 2*-T14Titanium Grade 4*-ZR702Zirconium Grade 702*-ZR705Zirconium Grade 705** Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys. <b>D</b> Head Configuration-RDRupture disc port with rupture disc assembly & disc-AOne head opening, "A" socket-NSNon-standard, custom head opening-HCSCAlloy C-276 Screw Cap for HPHT-TCThermocouple (in cylinder bottom)-4310AGage block assembly with thermocouple (for head with "A" socket opening)-4310ATCGage block assembly with thermocouple (for head with "A" socket opening)-No SymbolNone-10,00010,000 psi / 690 bar-75007500 psi / 517 bar-50005000 psi / 345 bar	-C20	Alloy 20				
IN62Alloy 625-IN625Alloy 625-HBAlloy C-276-NINickel 200*-TI2Titanium Grade 2*-TI4Titanium Grade 4*-ZR702Zirconium Grade 702*-ZR705Zirconium Grade 705** Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys. <b>D</b> Head Configuration-RDRupture disc port with rupture disc assembly & disc-AOne head opening, "A" socket-NSNon-standard, custom head opening <b>B</b> Optional Fittings & Custom Options (Check all needed)-HCSCAlloy C-276 Screw Cap for HPHT-TCThermocouple (in cylinder bottom)-4310AGage block assembly with thermocouple (for head with "A" socket opening)-4310ATCGage block assembly with thermocouple (for head with "A" socket opening)-No SymbolNone-10,00010,000 psi / 690 bar-75007500 psi / 517 bar-50005000 psi / 345 bar	-M0	Alloy 400				
HB   Alloy B-2 / B-3     -HC   Alloy C-276     -NI   Nickel 200*     -TI2   Titanium Grade 2*     -TI4   Titanium Grade 4*     -ZR702   Zirconium Grade 702*     -ZR705   Zirconium Grade 705*     * Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys. <b>D</b> Head Configuration     -RD   Rupture disc port with rupture disc assembly & disc     -A   One head opening, "A" socket     -NS   Non-standard, custom head opening <b>Optional Fittings &amp; Custom Options</b> (Check all needed)     -HCSC   Alloy C-276 Screw Cap for HPHT     -TC   Thermocouple (in cylinder bottom)     -4310A   Gage block assembly (for head with "A" socket opening)     -4310ATC   Gage block assembly with thermocouple (for head with "A" socket opening)     -No Symbol   None     -10,000   10,000 psi / 690 bar     -7500   7500 psi / 517 bar     -5000   5000 psi / 345 bar	-IN600					
-HC   Alloy C-276     -NI   Nickel 200*     -TI2   Titanium Grade 2*     -TI4   Titanium Grade 4*     -ZR702   Zirconium Grade 702*     -ZR705   Zirconium Grade 705*     * Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys. <b>D</b> Head Configuration     -RD   Rupture disc port with rupture disc assembly & disc     -A   One head opening, "A" socket     -NS   Non-standard, custom head opening <b>Optional Fittings &amp; Custom Options</b> (Check all needed)     -HCSC   Alloy C-276 Screw Cap for HPHT     -TC   Thermocouple (in cylinder bottom)     -4310A   Gage block assembly (for head with "A" socket opening)     -4310ATC   Gage block assembly with thermocouple (for head with "A" socket opening)     -No Symbol   None     -10,000   10,000 psi / 690 bar     -7500   7500 psi / 517 bar     -5000   5000 psi / 345 bar	-IN625	Alloy 625				
-NI   Nickel 200*     -TI2   Titanium Grade 2*     -TI4   Titanium Grade 4*     -ZR702   Zirconium Grade 702*     -ZR705   Zirconium Grade 705*     * Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys. <b>D</b> Head Configuration     -RD   Rupture disc port with rupture disc assembly & disc     -A   One head opening, "A" socket     -NS   Non-standard, custom head opening <b>Optional Fittings &amp; Custom Options</b> (Check all needed)     -HCSC   Alloy C-276 Screw Cap for HPHT     -TC   Thermocouple (in cylinder bottom)     -4310A   Gage block assembly (for head with "A" socket opening)     -4310ATC   Gage block assembly with thermocouple (for head with "A" socket opening) <b>F Pressure Gage Option</b> -No Symbol     -No e   10,000   10,000 psi / 690 bar     -7500   7500 psi / 517 bar     -5000   5000 psi / 345 bar	-HB	Alloy B-2 / B-3				
-TI2Titanium Grade 2*-TI4Titanium Grade 4*-ZR702Zirconium Grade 702*-ZR705Zirconium Grade 705** Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys.DHead Configuration-RDRupture disc port with rupture disc assembly & disc-AOne head opening, "A" socket-NSNon-standard, custom head opening-TICThermocouple (in cylinder bottom)-4310AGage block assembly with thermocouple (for head with "A" socket opening)-4310ATCGage block assembly with thermocouple (for head with "A" socket opening)FPressure Gage Option-No SymbolNone-10,00010,000 psi / 690 bar-75007500 psi / 517 bar-50005000 psi / 345 bar	-HC	Alloy C-276				
-TI4Titanium Grade 4*-ZR702Zirconium Grade 702*-ZR705Zirconium Grade 705** Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys. <b>D</b> Head Configuration-RDRupture disc port with rupture disc assembly & disc-AOne head opening, "A" socket-NSNon-standard, custom head opening-HCSCAlloy C-276 Screw Cap for HPHT-TCThermocouple (in cylinder bottom)-4310AGage block assembly with thermocouple (for head with "A" socket opening)-4310ATCGage block assembly with thermocouple (for head with "A" socket opening)-No SymbolNone-10,00010,000 psi / 690 bar-75007500 psi / 517 bar-50005000 psi / 345 bar	-NI	Nickel 200*				
-ZR702Zirconium Grade 702*-ZR705Zirconium Grade 705** Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys.DHead Configuration-RDRupture disc port with rupture disc assembly & disc-AOne head opening, "A" socket-NSNon-standard, custom head opening-HCSCAlloy C-276 Screw Cap for HPHT-TCThermocouple (in cylinder bottom)-4310AGage block assembly with thermocouple (for head with "A" socket opening)-4310ATCGage block assembly with thermocouple (for head with "A" socket opening)FPressure Gage Option-No SymbolNone-10,00010,000 psi / 690 bar-75007500 psi / 517 bar-50005000 psi / 345 bar	-TI2	Titanium Grade 2*				
-ZR705   Zirconium Grade 705*     * Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys.     D   Head Configuration     -RD   Rupture disc port with rupture disc assembly & disc     -A   One head opening, "A" socket     -NS   Non-standard, custom head opening <b>Optional Fittings &amp; Custom Options</b> (Check all needed)     -HCSC   Alloy C-276 Screw Cap for HPHT     -TC   Thermocouple (in cylinder bottom)     -4310A   Gage block assembly with thermocouple (for head with "A" socket opening)     -4310ATC   Gage block assembly with thermocouple (for head with "A" socket opening)     -No Symbol   None     -10,000   10,000 psi / 690 bar     -7500   7500 psi / 517 bar     -5000   5000 psi / 345 bar	-TI4	Titanium Grade 4*				
* Maximum temperature and/or pressure limited See page 10 or 24 for complete list of available alloys.     D   Head Configuration     -RD   Rupture disc port with rupture disc assembly & disc     -A   One head opening, "A" socket     -NS   Non-standard, custom head opening <b>Optional Fittings &amp; Custom Options</b> (Check all needed)     -HCSC   Alloy C-276 Screw Cap for HPHT     -TC   Thermocouple (in cylinder bottom)     -4310A   Gage block assembly with thermocouple (for head with "A" socket opening)     -4310ATC   Gage block assembly with thermocouple (for head with "A" socket opening) <b>F Pressure Gage Option</b> -No Symbol     -No 6   None     -10,000   10,000 psi / 690 bar     -7500   7500 psi / 517 bar     -5000   5000 psi / 345 bar	-ZR702	Zirconium Grade 702*				
See page 10 or 24 for complete list of available alloys.     D   Head Configuration     -RD   Rupture disc port with rupture disc assembly & disc     -A   One head opening, "A" socket     -NS   Non-standard, custom head opening     Check all needed)   Check all needed)     -HCSC   Alloy C-276 Screw Cap for HPHT     -TC   Thermocouple (in cylinder bottom)     -4310A   Gage block assembly (for head with "A" socket opening)     -4310ATC   Gage block assembly with thermocouple (for head with "A" socket opening)     -No Symbol   None     -10,000   10,000 psi / 690 bar     -7500   7500 psi / 517 bar     -5000   5000 psi / 345 bar	-ZR705	Zirconium Grade 705*				
-RD   Rupture disc port with rupture disc assembly & disc     -A   One head opening, "A" socket     -NS   Non-standard, custom head opening        • Optional Fittings & Custom Options     (Check all needed)      -HCSC   Alloy C-276 Screw Cap for HPHT     -TC   Thermocouple (in cylinder bottom)     -4310A   Gage block assembly (for head with "A" socket opening)     -4310ATC   Gage block assembly with thermocouple (for head with "A" socket opening)     • Pressure Gage Option     -No Symbol   None     -10,000   10,000 psi / 690 bar     -7500   7500 psi / 517 bar     -5000   5000 psi / 345 bar	See page 10 or	24 for complete list of available alloys.				
-NS   Non-standard, custom head opening     Optional Fittings & Custom Options (Check all needed)     -HCSC   Alloy C-276 Screw Cap for HPHT     -TC   Thermocouple (in cylinder bottom)     -4310A   Gage block assembly (for head with "A" socket opening)     -4310ATC   Gage block assembly with thermocouple (for head with "A" socket opening)     Pressure Gage Option     -No Symbol   None     -10,000   10,000 psi / 690 bar     -7500   7500 psi / 517 bar     -5000   5000 psi / 345 bar						
Optional Fittings & Custom Options (Check all needed) -HCSC Alloy C-276 Screw Cap for HPHT -TC Thermocouple (in cylinder bottom) Gage block assembly (for head with     "A" socket opening) Gage block assembly with     thermocouple (for head with     "A" socket opening) Gage block assembly with     thermocouple (for head with     "A" socket opening) F Pressure Gage Option -No Symbol None -10,000 10,000 psi / 690 bar -7500     5000 psi / 345 bar		assembly & disc				
• (Check all needed)     -HCSC   Alloy C-276 Screw Cap for HPHT     -TC   Thermocouple (in cylinder bottom)     -4310A   Gage block assembly (for head with "A" socket opening)     -4310ATC   Gage block assembly with thermocouple (for head with "A" socket opening)     • Pressure Gage Option   -No Symbol     -10,000   10,000 psi / 690 bar     -7500   7500 psi / 517 bar     -5000   5000 psi / 345 bar		assembly & disc				
-TCThermocouple (in cylinder bottom)-4310AGage block assembly (for head with "A" socket opening)-4310ATCGage block assembly with thermocouple (for head with "A" socket opening)•A310ATCGage block assembly with thermocouple (for head with "A" socket opening)•FPressure Gage Option 10,000•No SymbolNone 10,000 psi / 690 bar 7500 psi / 517 bar 5000•S000 psi / 345 bar	-A	assembly & disc One head opening, "A" socket				
-4310A   Gage block assembly (for head with "A" socket opening)     -4310ATC   Gage block assembly with thermocouple (for head with "A" socket opening)     •F Pressure Gage Option     -No Symbol   None     -10,000   10,000 psi / 690 bar     -7500   7500 psi / 517 bar     -5000   5000 psi / 345 bar	-A -NS	assembly & disc One head opening, "A" socket Non-standard, custom head opening Fittings & Custom Options				
-4310A   "A" socket opening)     -4310ATC   Gage block assembly with thermocouple (for head with "A" socket opening)     • Pressure Gage Option     -No Symbol   None     -10,000   10,000 psi / 690 bar     -7500   7500 psi / 517 bar     -5000   5000 psi / 345 bar	-A -NS Optional (Check a -HCSC	assembly & disc One head opening, "A" socket Non-standard, custom head opening Fittings & Custom Options all needed)				
-4310ATCthermocouple (for head with "A" socket opening)F Pressure Gage Option-No SymbolNone-10,00010,000 psi / 690 bar-75007500 psi / 517 bar-50005000 psi / 345 bar	-A -NS Optional (Check a -HCSC	assembly & disc One head opening, "A" socket Non-standard, custom head opening Fittings & Custom Options all needed) Alloy C-276 Screw Cap for HPHT				
-No Symbol     None       -10,000     10,000 psi / 690 bar       -7500     7500 psi / 517 bar       -5000     5000 psi / 345 bar	-A -NS Optional (Check a -HCSC -TC	assembly & disc One head opening, "A" socket Non-standard, custom head opening Fittings & Custom Options all needed) Alloy C-276 Screw Cap for HPHT Thermocouple (in cylinder bottom) Gage block assembly (for head with				
-No Symbol     None       -10,000     10,000 psi / 690 bar       -7500     7500 psi / 517 bar       -5000     5000 psi / 345 bar	-A -NS Optional (Check a -HCSC -TC -4310A	assembly & disc One head opening, "A" socket Non-standard, custom head opening Fittings & Custom Options all needed) Alloy C-276 Screw Cap for HPHT Thermocouple (in cylinder bottom) Gage block assembly (for head with "A" socket opening) Gage block assembly with thermocouple (for head with				
-7500 7500 psi / 517 bar -5000 5000 psi / 345 bar	-A -NS Optional (Check a -HCSC -TC -4310A -4310ATC	assembly & disc One head opening, "A" socket Non-standard, custom head opening Fittings & Custom Options all needed) Alloy C-276 Screw Cap for HPHT Thermocouple (in cylinder bottom) Gage block assembly (for head with "A" socket opening) Gage block assembly with thermocouple (for head with "A" socket opening)				
-5000 5000 psi / 345 bar	-A -NS Optional (Check a -HCSC -TC -4310A -4310ATC Pressure	assembly & disc One head opening, "A" socket Non-standard, custom head opening Fittings & Custom Options all needed) Alloy C-276 Screw Cap for HPHT Thermocouple (in cylinder bottom) Gage block assembly (for head with "A" socket opening) Gage block assembly with thermocouple (for head with "A" socket opening)				
	-A -NS Optional (Check a -HCSC -TC -4310A -4310ATC Pressure -No Symbol	assembly & disc     One head opening, "A" socket     Non-standard, custom head opening     Fittings & Custom Options     all needed)     Alloy C-276 Screw Cap for HPHT     Thermocouple (in cylinder bottom)     Gage block assembly (for head with "A" socket opening)     Gage block assembly with thermocouple (for head with "A" socket opening)     Gage Option     None				
-3000 3000 psi / 207 bar	-A -NS <b>Optional</b> (Check a -HCSC -TC -4310A -4310ATC <b>Pressure</b> -No Symbol -10,000	assembly & disc One head opening, "A" socket Non-standard, custom head opening Fittings & Custom Options all needed) Alloy C-276 Screw Cap for HPHT Thermocouple (in cylinder bottom) Gage block assembly (for head with "A" socket opening) Gage block assembly with thermocouple (for head with "A" socket opening) Gage Option None 10,000 psi / 690 bar				
	-A -NS <b>Optional</b> (Check a -HCSC -TC -4310A -4310ATC <b>Pressure</b> -No Symbol -10,000 -7500	assembly & disc     One head opening, "A" socket     Non-standard, custom head opening     Fittings & Custom Options     all needed)     Alloy C-276 Screw Cap for HPHT     Thermocouple (in cylinder bottom)     Gage block assembly (for head with "A" socket opening)     Gage block assembly with thermocouple (for head with "A" socket opening)     Gage Option     None     10,000 psi / 690 bar     7500 psi / 517 bar				

2000 psi / 138 bar Please note that all options and combinations are not compatible with all models.

> Model 4740-75mL Vessel, with bench top stand and Ceramic Fiber Heater (-BTS).

-2000

G Stand with Heater Options						
-No Symbol	None					
-BTS	Ceramic Fiber Heater w/Stand, 700W					
H Controller						
-No Symbol	None					
-4838	PID Control, Ramp & Soak Programming, and Data logging with Software (RS-485 to USB cable not included). For use with one addi- tional display module.					
-4848	PID Control, Ramp & Soak Programming, and Data logging with Software. (RS-485 to USB cable not included). For use with up to three additional display modules.					
See Chapter 6 for complete list of Controller options.						
	ller Options (Check all needed)					
-PDM	Pressure Display Module					
-HTM	High Temperature Cut Off Module					
-ETLM	External Temperature Limit Module					
-SVM	Solenoid Valve Module (for cooling control)					
-A1925E4	RS-485 to USB Cable for 4838/4848 Controller (required for data logging)					
-A1925E6	RS-485 to USB Converter, isolated, 30-ft					
-A2208E	RS-485 Daisy Chain for Multiple Controllers (Must be used with A1925E6)					
-A3504HC	SpecView Software Package for 4838/4848 Controller					
J Electrical Supply for Heater and/or Controller						
-No Symbol	None					
-115	115V Power					
-230	230V Power					
K Certifications						
-ASME	ASME Documentation					
-CF	CE Documentation					
-0L -P	Parr Certification					

Please note that all options and combinations are not compatible with all models.

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Model 4740-75mL-A Vessel, with 4310 Gage Block Assembly.