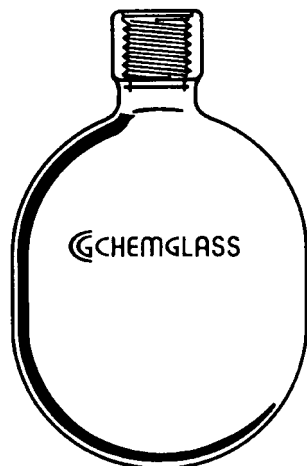


PRESSURE VESSEL



Cylindrical

CG-1880



Round Bottom

CG-1880 PRESSURE VESSEL, HEAVY WALL

Heavy wall cylindrical and round bottom pressure vessels have an internal thread for use with a Teflon bushing as a pressure seal. This unique design allows hand tightening and loosening for easy access into the vessel. The o-ring is positioned on the bushing above the thread for improved sealing. The vessels are useful for pressure reactions and applications such as polymerization and analysis of halogens by thermal decomposition in the presence of lime. Complete apparatus is supplied with vessel, back seal solid Teflon bushing and Viton o-ring. Other vessel sizes and safety plastic coating are available, please call for details. An optional Perfluoro o-ring has the chemical resistance and service temperature range similar to Kalrez® 4079. See CG-362, CG-364 and CG-366 for optional Teflon bushings.

Complete Cylindrical Apparatus:

Part Number	OD x Overall Length (mm)	Capacity (mL)	Bushing Size
CG-1880-01	25.4 x 114	15	#15
CG-1880-02	25.4 x 190	35	#15
CG-1880-03	25.4 x 215	38	#15
CG-1880-04	38 x 114	48	#15
CG-1880-05	38 x 190	100	#15
CG-1880-06	38 x 215	120	#15

Complete Round Bottom Apparatus:

Part Number	OD x Overall Length (mm)	Capacity (mL)	Bushing Size
CG-1880-10	52 x 102	75	#15
CG-1880-40	52 x 102	75	#25
CG-1880-11	63.5 x 117	150	#15
CG-1880-41	63.5 x 117	150	#25
CG-1880-12	82.5 x 142	350	#15
CG-1880-42	82.5 x 142	350	#25

Glass Cylindrical Pressure Vessels Only:

Part Number	OD x Overall Length (mm)	Capacity (mL)	Bushing Size
CG-1880-21	25.4 x 102	15	#15
CG-1880-22	25.4 x 178	35	#15
CG-1880-23	25.4 x 203	38	#15
CG-1880-24	38 x 102	48	#15
CG-1880-25	38 x 178	100	#15
CG-1880-26	38 x 203	120	#15

Glass Round Bottom Pressure Vessels Only:

Part Number	OD x Overall Length (mm)	Capacity (mL)	Bushing Size
CG-1880-30	52 x 102	75	#15
CG-1880-43	52 x 102	75	#25
CG-1880-31	63.5 x 117	150	#15
CG-1880-44	63.5 x 117	150	#25
CG-1880-32	82.5 x 142	350	#15
CG-1880-45	82.5 x 142	350	#25

IMPORTANT NOTICE: All Chemglass pressure vessels are tested at 150 PSI, or approximately two and one-half times their recommended working pressure. However, Chemglass does not guarantee the vessels from breaking under pressure due to the nature of the material and conditions beyond our control. Chemglass recommends the use of safety shields and/or other safety equipment.

CG-1880-R PRESSURE VESSEL, HEAVY WALL, ROUND BOTTOM

Heavy wall pressure vessel is the same as CG-1880, but shaped similar to a round bottom flask with a #25 internal thread for use with a Teflon bushing as a pressure seal. Complete apparatus is supplied with vessel, back seal solid Teflon bushing and Viton o-ring. Other vessel sizes and safety plastic coating are available, please call for details. An optional Perfluoro o-ring has the chemical resistance and service temperature range similar to Kalrez® 4079. See CG-362, CG-364 and CG-366 for optional Teflon bushings.

Complete Round Bottom Flask Apparatus:

Part Number	Approx Capacity (mL)	OD x Overall Length (mm)	Diameter Matches Flask Capacity	Bushing Size
CG-1880-R-01	28	48 x 85	50mL	#25
CG-1880-R-02	65	60 x 100	100mL	#25
CG-1880-R-03	200	85 x 125	250mL	#25
CG-1880-R-04	420	105 x 145	500mL	#25

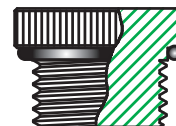
Glass Round Bottom Flask Pressure Vessel Only:

Part Number	Approx Capacity (mL)	OD x Overall Length (mm)	Diameter Matches Flask Capacity	Bushing Size
CG-1880-R-10	28	48 x 85	50mL	#25
CG-1880-R-11	65	60 x 100	100mL	#25
CG-1880-R-12	200	85 x 125	250mL	#25
CG-1880-R-13	420	105 x 145	500mL	#25

Replacement Components For All CG-1880 Pressure Vessels:

Part Number	Description
CG-363-03	#15 Solid Back Seal Teflon Bushing, #210 Viton
CG-363-05	#25 Solid Back Seal Teflon Bushing, #220 Viton
CG-362-03	#15 Open Top Front Seal Teflon Bushing, #110 Viton
CG-362-05	#25 Open Top Front Seal Teflon Bushing, #212 Viton
CG-364-40	#15 Front Seal Teflon Bushing, 1/8" Female NPT, #110 Viton
CG-364-60	#25 Front Seal Teflon Bushing, 1/8" Female NPT, #212 Viton
CG-366-12	#15 Solid Front Seal Teflon Bushing, #110 Viton
CG-366-13	#25 Solid Front Seal Teflon Bushing, #212 Viton
CG-305-110	Viton O-Ring, #110, 12/Pkg
CG-305-212	Viton O-Ring, #212, 6/Pkg
CG-305-210	Viton O-Ring, #210, 6/Pkg
CG-305-220	Viton O-Ring, #220, 6/Pkg
CG-309-110	Perfluoro O-Ring, #110, 1/Pkg
CG-309-212	Perfluoro O-Ring, #212, 1/Pkg
CG-309-210	Perfluoro O-Ring, #210, 1/Pkg
CG-309-220	Perfluoro O-Ring, #220, 1/Pkg

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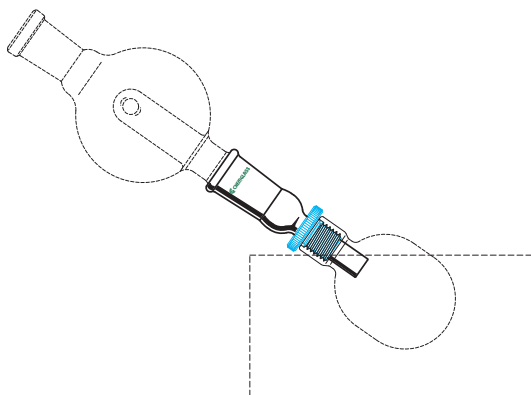
CG-1880-R

PRESSURE VESSEL / PUMP

CG-1881 ADAPTER, PRESSURE VESSEL

Adapter permits rotary evaporation of the contents of any of our CG-1880 and CG-1880-R pressure vessels after the reaction is complete. Adapter can also be connected to any vacuum line having a 24/40 port or used in conjunction with a CG-1014 adapter to connect to hoses. Eliminates the need to transfer samples into a conventional round bottom flask. Joint sizes other than those listed are available. Please call for details. Adapter is supplied complete with one CG-362 open top front seal Teflon bushing with Viton o-ring.

Part Number	Fits Bushing Size
CG-1881-01	#15
CG-1881-02	#25



CG-1881



CG-1170

CG-1170 DIAPHRAGM LIQUID METERING PUMP

Our new diaphragm liquid metering pump features versatile control from 0.08 to 80mL per minute. Handles aggressive solvents without the inherent disadvantages of peristaltic style pumps. The ultra-quiet, 3-phase, stepper motor provides a constant, even flow throughout the entire discharge stroke. The recharge stroke is accomplished at maximum speed to ensure smooth operation. Delivery is instantly adjustable for critical metering processes to 0.1% increments over the entire (0.08 to 80mL) per minute range.

- Solvent delivery pump for use with radial TLC units such as the Analtech CycloGraph™ or Harrison Chromatotron
- Excellent for use as a solvent delivery pump with high performance, low pressure liquid chromatography (HPLPLC)
- Can be used for dilution, blending pH/ion control, circulation of buffers and in moving corrosive liquids

Specifications:

Dimensions.....	7" x 5" x 3"
Flow Range.....	0.08 - 80mL per minute
Pump Head, Wetted Materials.....	Teflon
Maximum Head Pressure.....	30 psi
Power Requirements.....	110 VAC, 50-60Hz
Tubing Connections.....	1/4"-28 Female Thread, Ferrule Style

Part Number	Description
CG-1170-80	Diaphragm Liquid Metering Pump Teflon Head