

## Pressure Filtration Vessels

Sterlitech Pressure Filtration Vessels are sold complete with a main pressure filtration vessel, relief valve, pressure gauge, ball valve, and two hose barb connections. For additional fittings or to purchase replacement valves, gauges, O-rings and other accessories, click the link below for pressure filtration vessel parts.

Type 316/316L stainless pressure filtration vessels comply with current good manufacturing practices and are recommended for low pH and high salt applications.



### SPECIFICATIONS

Pressure	Max Operating Temp
155 psi (10.7 bar)	200°F (93°C)
165 psi (11.4 bar)	300°F (149°C)

Material of Construction	Part Number	Volume	Inner Dimensions	Height
316L Stainless steel	740160	1 gallon (3.8 L)	9 inches (23 cm)	9.25 in (23.5 cm)
	740360	3 gallon (11.4 L)		15 in (38 cm)
	740560	5 gallon (18.9 L)		22.25 in (56.5 cm)

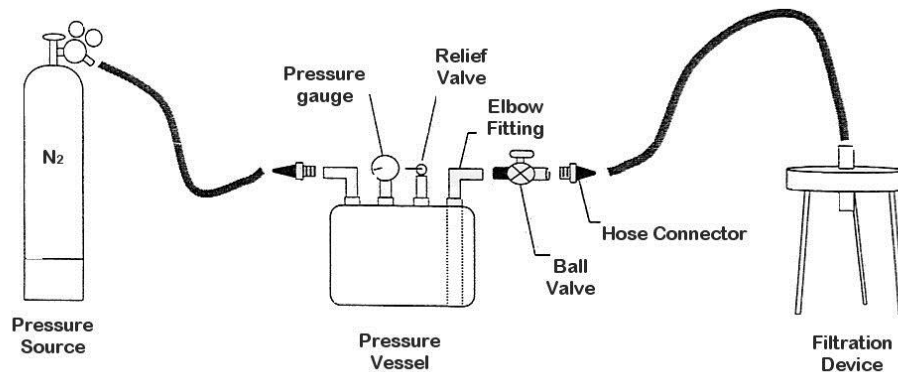
### ASSEMBLY AND OPERATION

1. Wrap all threaded male connections with a single overlapping wrap of Teflon tape.
2. Attach 3/8" i.d. tubing to the dip tube outlet using an elbow fitting, ball valve and hose connector (see figure). Connect the other end of the tubing to a pressure filter holder.
3. Connect tubing from vessel to pressure source with an elbow fitting and hose connector or quick-connect.
4. Install vent relief valve (recommended), pressure gauge or other options in vessel openings. Cap any remaining openings with a pipe plug.
5. Tighten all fittings.
6. Fill vessel with liquid.
7. Mount O-ring around edge of closure. Insert closure into vessel, rotate, and lift to fit. Pressure down on closure handle loop to close. Applied pressure will seal the vessel.
  - a. Note: The vessel cannot be opened while pressurized.
8. Gradually increase pressure and observe for leaks. Maximum pressure is noted on permanent plate on each vessel.
9. After filtration is complete, shut off pressure source and release pressure using relief valve.

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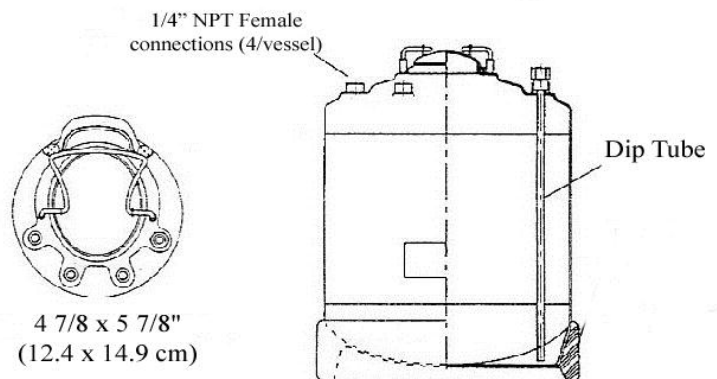
### CLEANING AND MAINTENANCE

- Use standard laboratory detergent and clean threaded connections with a soft bristled brush. Inspect O-ring for cracking or other damage, as this may prevent the vessel from sealing.
- To sterilize, the unit may be autoclaved (assembled or individual components) at 121°C (250°F) for 20 minutes.



### ORDERING GUIDE

Closure	740162
Plastic feet for closure	720022
Dip Tube Assembly	
1 gallon	720161
3 gallon	720361
5 gallon	720561
O-rings	
EPR*	720019
Viton	720021
PTFE-encapsulated silicone rubber	720018



\*EPR (ethylene propylene rubber) O-rings are manufactured from E300-70 EPDM and meet FDA CFR177.2600 and ASTM D2000 specifications.