

**Basic Features**

- Increases pump cycle volume.
- Flexible stainless steel braided hose. Will fit into wells down to 1” (schedule 80).
- Maximum depth below ground surface of 2000ft.

**Other Features**

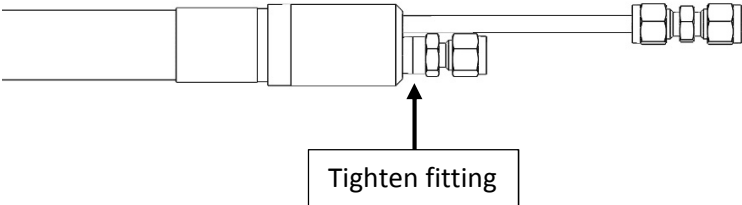
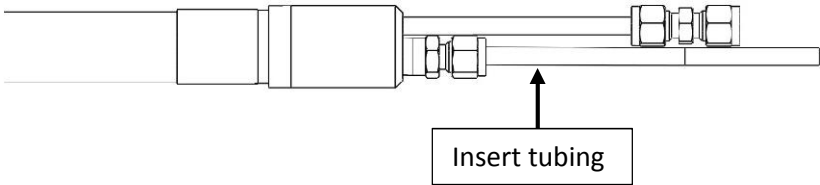
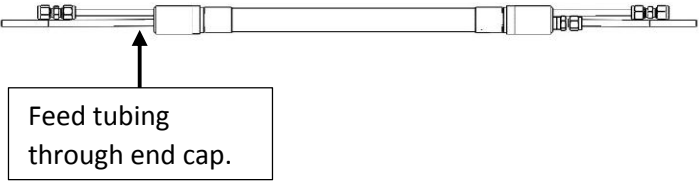
- Compatible with BESST’s full line of Panacea Pumps.
- Compatible with Timer Control Unit for pump cycle automation.
- Compatible with Zone Isolation Sampling Technology (ZIST).

**Specifications**

Type	Flexible 75	Flexible 100
Body Construction	Stainless Steel, PTFE inner hose	Stainless Steel, PTFE inner hose
Chamber Length (ft.)	5 / 10 / 30	5 / 10 / 30
Outer Diameter (in)	.95	1.20
Maximum Pressure (psi)	1000	1000
Maximum Working Depth (ft BGS)	2000	2000
Minimum Submergence (ft)	5	5
Internal Volume (L)	0.4 / 0.8 / 2.6	0.7 / 1.4 / 4.3
Standard Tubing OD (in)	1/4, others available	1/4, others available
Coaxial Tubing Material	Nylon	Nylon
Gas Compatibility	Nitrogen, Compressed Air	Nitrogen, Compressed Air
ZIST Compatibility	1”, 2”, and 4”	1.25”, 2”, 4”

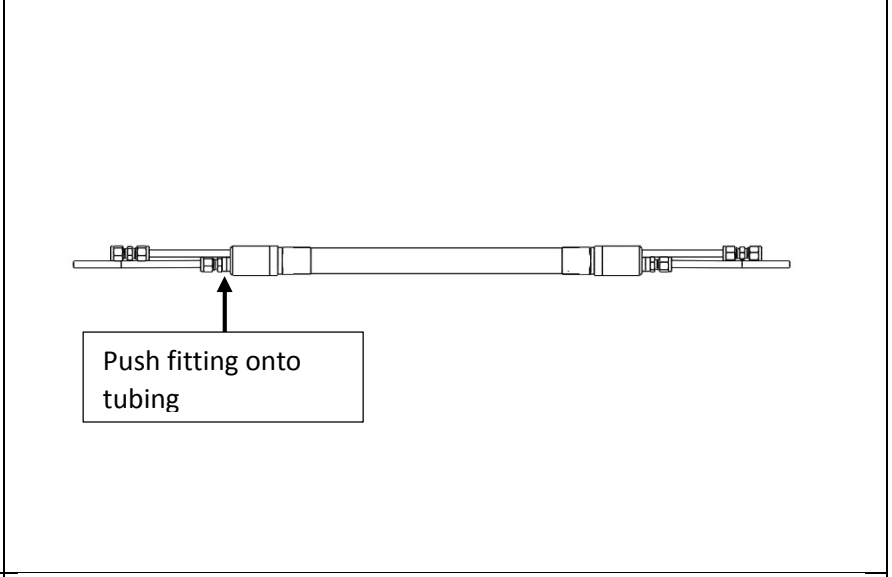
**Flexible Volume Booster Precautions For Safe Use**

1. Never disassemble the Volume Booster while it is connected to a pressurized source.
2. Never operate the Volume Booster past its specific maximum pressure.
3. Never use tube ferrules other than those provided by BESST INC Inc. or authorized distributor.
4. Never disconnect the pump from the Volume Booster while it is pressurized with gas.
5. Always make sure the Volume Booster is secured to a support line before deploying.

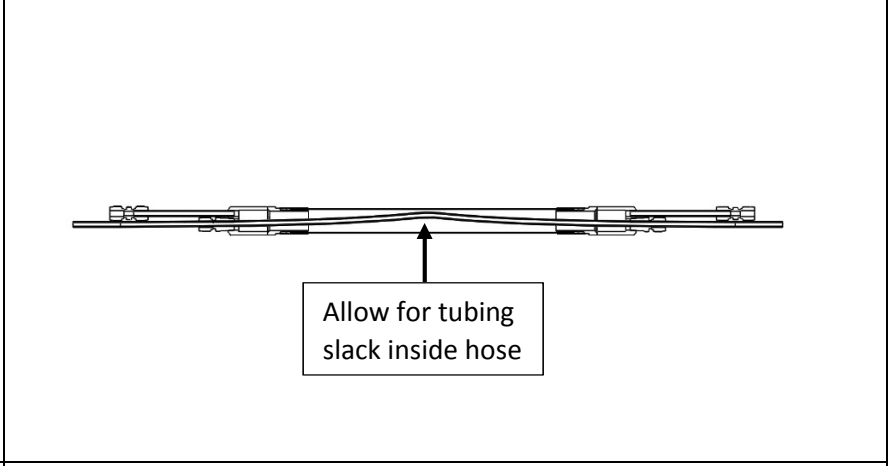
<b>Flexible Volume Booster Assembly</b>	
<p>Step 1: Install tube fitting onto volume booster end cap. Tighten the fitting.</p> <p>CAUTION: Do not hold the tube stems on the end cap while tightening.</p>	
<p>Step 2: Thread the tube through the fitting.</p>	
<p>Step 3: Feed the tubing through the other side of the endcap. A pick can be used to align the tubing with the hole.</p>	

Step 4:  
Push a fitting onto the tube and tighten it to the volume booster end cap.

CAUTION: Do not hold the tube stems on the end cap while tightening.



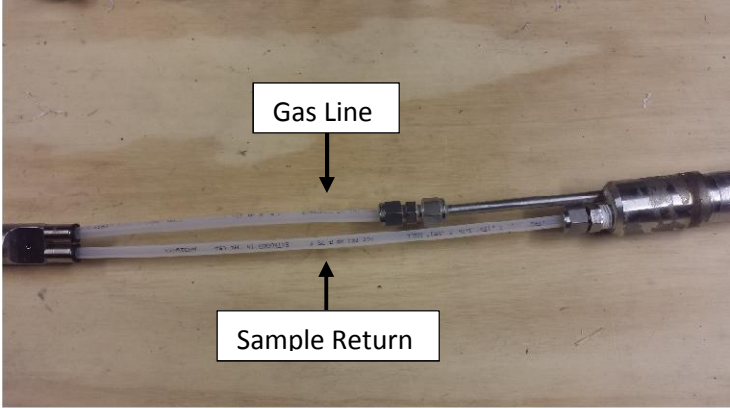
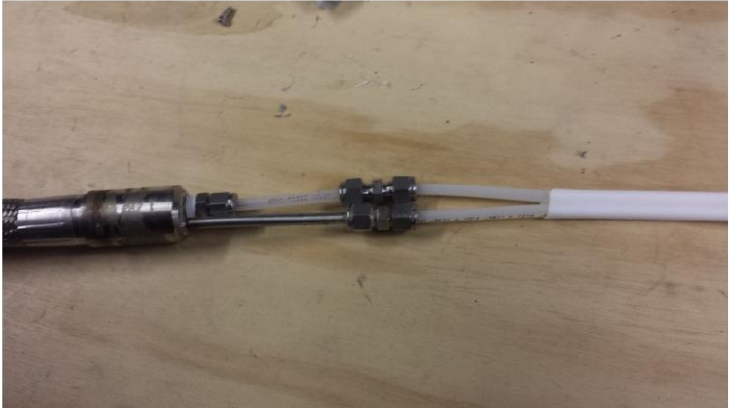
Step 5:  
Before swaging the tube connections make sure there is slack in the nylon tubing that is routed through the inside hose.

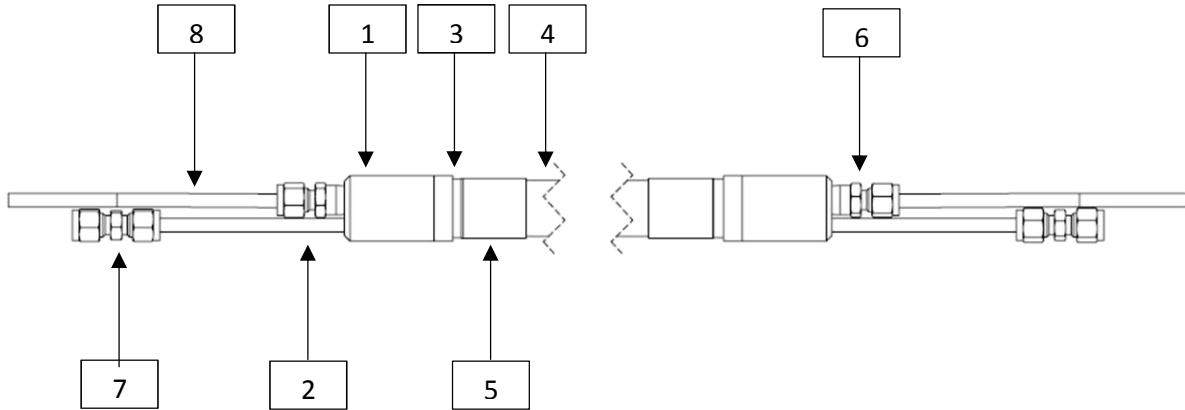


Step 6:  
Swage the ferrules onto the nylon tubes. To do so place the nut, back ferrule, and front ferrule onto the nylon tube. Rotate the nut finger-tight. Tighten nut 1.25 turns to ferrule the tube.

NOTE: This connection will need to be removed when re-threading the Volume Booster. Be sure to include some slack in the line within the chamber so the tube can be cut and replaced.



<b>Flexible Volume Booster connections and deployment</b>	
<p>Step 1: Connecting the Volume Booster to a Panacea Pump.</p> <p>The longer stem on the end cap is the gas line. Use a short length of 1/4" high pressure nylon tubing to connect the longer port on the Volume Booster to the gas connection on the Panacea Pump.</p> <p>The tubing threaded through the Volume Booster can be directly connected to the sample return connection on the Panacea Pump.</p> <p>A support cable should be used to connect the Volume Booster to the Panacea Pump.</p>	<p>Photo showing the the tubing connections between a Panacea P00 and the Volume Booster.</p> 
<p>Step 2: Connecting the Volume Booster to tubing.</p> <p>The longer stem on the end cap is the gas line, and the shorter stem is the sample return line. Connect the gas line on the Volume Booster directly to the gas line tubing. Use a 1/4"x1/4" union fitting to connect the sample return lines.</p>	<p>Photo showing Volume Booster connected to tubing.</p> 
<p>Step 3:</p> <p>Deploy the Panacea Pump and Volume Booster to the desired sample depth. If the pump and Volume Booster are to be suspended in the well, be sure to hang the weight on the support line and not the tubing.</p>	



Number	BESST Part Number	Part Name	Quantity
1	VB-F-075-0001, VB-F-100-0001	End Cap	2
2	VB-F-075-0002, VB-F-100-0002	Gas Tube	2
3	VB-F-075-0003, VB-F-100-0003	Hose Insert	2
4	VB-F-075-0004, VB-F-100-0004	Braided Hose	2
5	VB-F-075-0005, VB-F-100-0005	Hose Crimp	2
6	VB-F-075-0006, VB-F-100-0006	Through Tube Fitting	2
7	VB-F-075-0007, VB-F-100-0007	Union Fitting	2
8	VB-F-075-0008, VB-F-100-0008	Nylon Tube	1