



# Handling Instructions for Sampling Pump





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# **Introduction FanPro Vacuum Pump**

The pump is designed for efficient sampling of fluids under all conditions, in warm and cold weather, in mines as well as under ruff conditions at sea. The fluid goes directly from the object to be sampled into the sampling bottle, without touching the pump, no need for cleaning. All parts are made of high strength plastic and screwed together, easy to take apart. The pump gives up to 95 % vacuum.



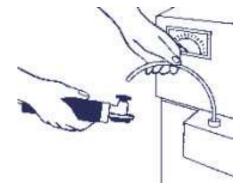


# How to use the Vacuum Pump

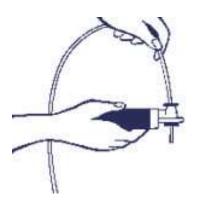
By following the instructions your sampling job will be quick and safe, without risk of spill or overfilling, and you don't have to clean the pump between jobs. Important, make sure that the pump is at a higher level than the surface of the fluid you sample, otherwise you will start a siphon and overflow.



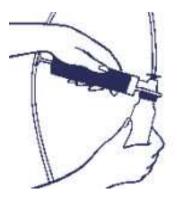
Cut a suitable length of tubing, and cut at an angel, this way the tube will not suck in against walls



Put the tube into the fluid you want to sample. Preferably use a pointer to find the right spot.

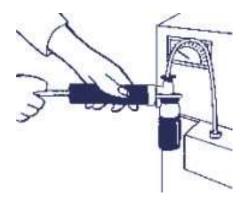


Put the other end through the pump head, so that you can just about see it on the other side of the head.



Mount a bottle on the pump.





Pump two or three fast strokes and push the piston in. The bottle will now fill. Make sure the bottle is vertical and at a higher level than the surface of the fluid you sample. Don't stand and wait, hang the pump up.



In order not to pollute the next sample, cut or sweep of the tube before you pull it out of the pump. The pump is now ready for the next job, with new tube and bottle.



## Handling instructions for sampling pump

The sampling system offers a simple, professional way of drawing representative samples of fluids even from difficult reservoirs. With correct handling the pump keeps itself clean and will give sample after sample from different containers and different media's without risk of cross contamination.

This is how to take a sample

- 1. Cut a suitable length of tubing. Push one end through the pump head, just enough to be seen on the bottle side. Lock the tube to the pump by turning the tube-coupling knob.
- 2. Screw a bottle on to the pump.
- 3. Put the other end of the tube into the fluid, deep enough to reach the exact spot from where you want to draw the sample. Use a pointer if it is necessary.
- 4. Build up vacuum in the bottle by pumping a few strokes and the flow will start. Make sure you hold, or place, the pump higher than the surface of the fluid you are sampling and keep it upright or you may get oil into the pump.
- 5. If you have pumped up too much vacuum, you will have to follow the flow. When you have reached desired level, you must loosen the bottle and the flow will stop immediately.
- 6. Unscrew the sample bottle and cap it.
- 7. Wipe or cut of the end of the tube pointing through the pump and pull out the tube.
- 8. Pull the tube out of the reservoir and take care of it in an environmental friendly manner.
- 9. Now you are ready to start over again and take the next sample.



## Common errors when sampling.

Make sure to keep the pump with the bottle upright or oil will enter the pump, causing cross contamination. If this happens the pump must be taken apart for cleaning. This is however fairly simple to do, as the pump is all screwed together.

Only pump two to four quick strokes, not more for a 100 ml bottle, and then watch the bottle fill. If you don't reach your desired level, make one more quick stroke and watch the filling again.

If the tube is pushed too far through the pump, the end will be emerged in fluid when the sample bottle fills up. It will then pollute the tube coupling when it is pulled out if it is not cleaned properly.

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Along with the partnership with Polaris Laboratories, Enluse launched the start of our own private label "FanPro™" − Fluid Analysis Program. Fluid analysis with Polaris provides a solutions based approach to maintenance, backed by ISO 17025 A2LA accreditation (highest level of quality attainable by a testing lab). This independent cooperation gives you an independent advice.

