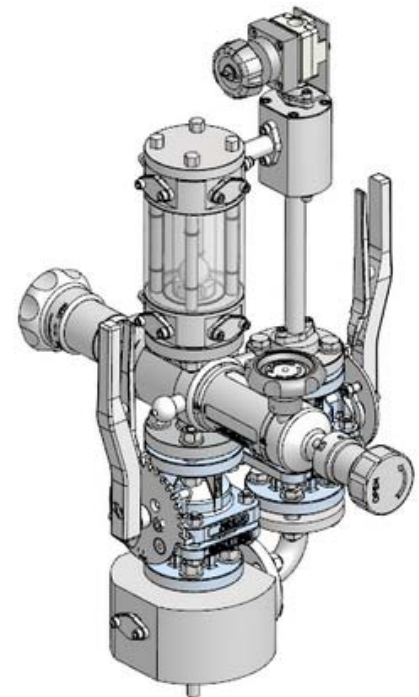
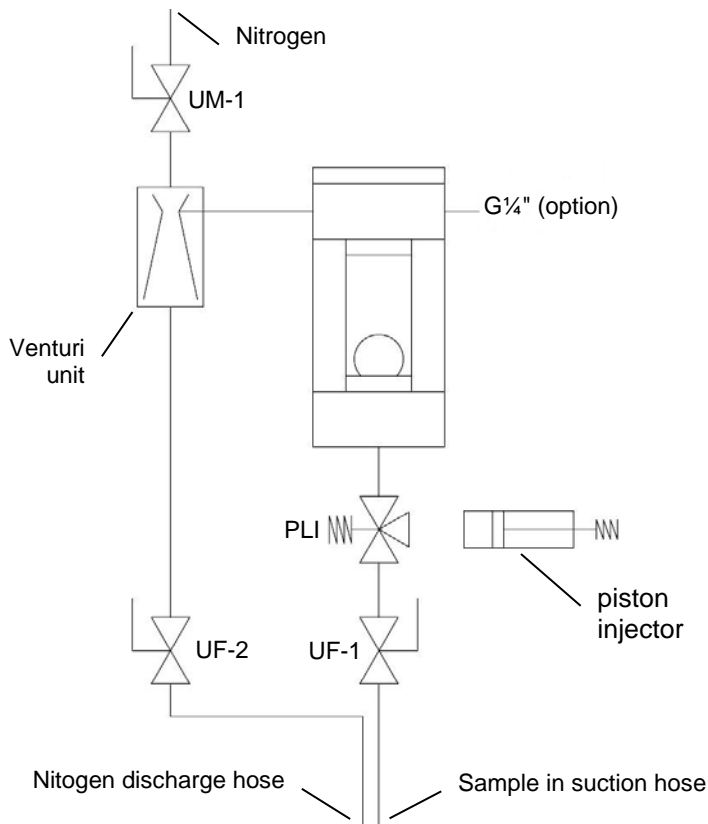


Operating principle

System type : UPR

Version : Venturi unit for lift + piston injector + nitrogen connection



UM-1 : membrane valve nitrogen

PLI : spindle sampling valve

UF-1 : ball valve process

UF-2 : ball valve nitrogen discharge

Step 1, blowing down the suction hose

Start with all valves in the closed position

1. Open UF-1
2. Open UM-1 → *The suction hose should be flushed within about 3 to 5 seconds.*
3. Close UF-1
4. Close UM-1

Step 2, taking a sample

Start with all valves in the closed position and the piston injector properly connected.

5. Open UF-1
6. Open UF-2
7. Open UM-1 → *The level should slowly rise into the sight glass.*
→ *The buoyant ball cuts off the suction upon reaching the top.*
8. Close UF-1 immediately
9. Close UF-2

Step 3, transferring the sample into the piston injector

10. Open PLI and hold
11. Open the piston injector and hold → *The liquid is pushed from the sight glass into the piston injector.*
12. Release PLI (spring loaded hand wheel)
13. Release the piston injector (spring loaded hand wheel)
14. Open UF-1 → *The remaining liquid flows back into the vessel.*
15. Close UM-1
16. Close UF-1
17. Disconnect the piston injector

Option, Rinsing

A solvent supply can be connected to flush the system if needed.