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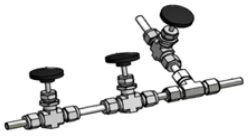
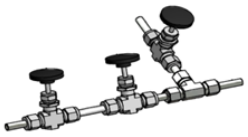
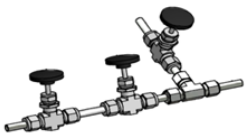
LIQUID SAMPLING RESERVOIR TRAP
Product Solutions for High- and Low-Pressure Reactors

Liquid Sampling Reservoir Trap Overview

Liquid Sampling Reservoir Traps [1]	Construction Material	Article Number	Application Type
Liquid Sampling Reservoir Trap, 6 ml, 300 °C, 200 bar 	✓ Stainless steel 316Ti	5735932	✓ Enables sampling and trapping of 6 ml liquid under pressure ✓ Compatible with high pressure reactors with 100 ml or greater volume
Liquid Sampling Reservoir Trap, 20 ml, 300 °C, 200 bar 	✓ Stainless steel 316Ti	5745480	✓ Enables sampling and trapping of 20 ml liquid under pressure ✓ Compatible with high pressure reactors with 100 ml or greater volume
Liquid Sampling Reservoir Trap, 50 ml, 300 °C, 200 bar 	✓ Stainless steel 316Ti	5715485	✓ Enables sampling and trapping of 50 ml liquid under pressure ✓ Compatible with high pressure reactors with 100 ml or greater volume

Notes:

[1] All liquid sampling reservoir traps consist of 3 valves for controlled liquid sampling.

[2] Liquid sampling reservoir traps should be mounted on the liquid sampling valve on the reactor lid.

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How to use liquid sampling reservoir traps

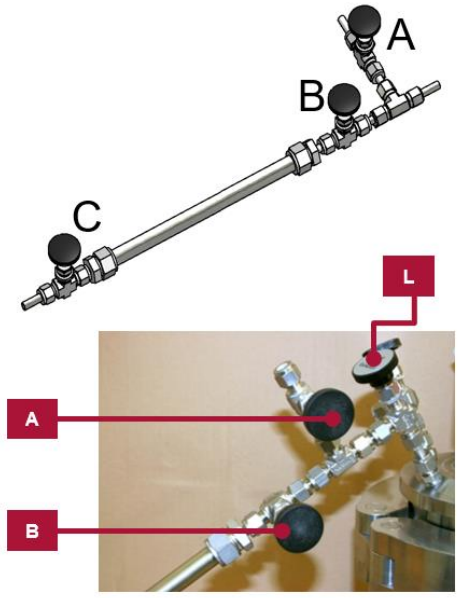

Figure 1. Liquid sampling reservoir trap with 3 valves named as A, B and C (above) and reactor lid with liquid sampling valve named as L (below).

Step 1

1- At the beginning, valves A, B and C of the liquid sampling reservoir should be closed.

2- Connect the liquid sampling reservoir trap to the liquid sampling valve L on your reactor lid as shown in Figure 1.

3- Open the liquid sampling valve L and valve B for liquid sampling. After sampling is finished, close both valves.

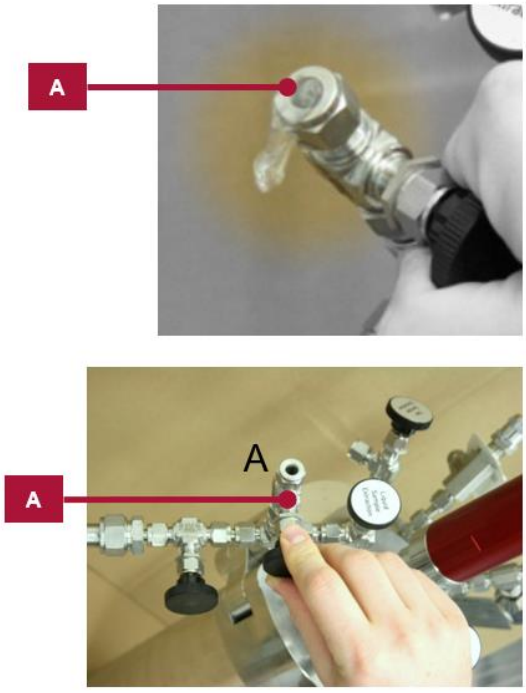

Figure 2. After the liquid sampling reservoir trap cooled down, droplets can splash out due to high pressure (above). Pressure relief by opening the valve A (below).

Step 2

4- Let the liquid sampling reservoir trap cool down.

5- Open valve A carefully to release residual pressure of T-piece. Some droplets can splash out due to high pressure, as shown in Figure 2.

6- Close valve A again.

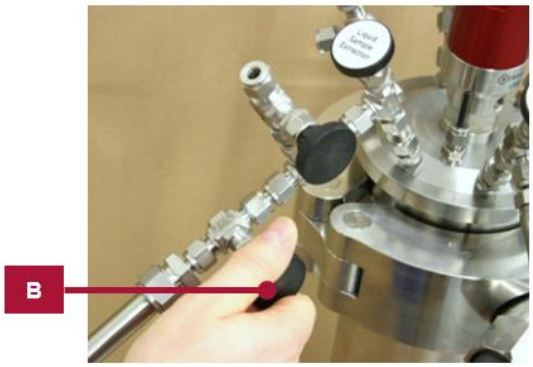

Figure 3. Handling of valve B on the liquid sampling trap.

Step 3

7- Open valve B and close it again after 2-3 seconds. Then release residual pressure of T-piece as described in step 2.

8- Repeat Nr. 7 in step 3 many times until no pressure remain inside the sampling system.

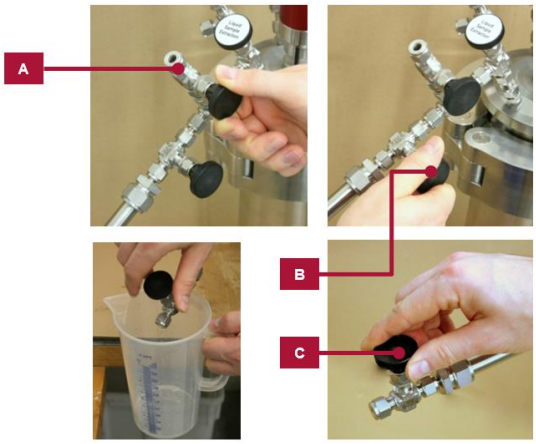

Figure 4. Handling of valves A, B and C to collect and the liquid.

Step 4

9- After all the pressure is relieved from the system, open valves in the order of A, B and finally valve C to collect the liquid as shown in Figure 4.

10- Safe liquid sampling under pressure is achieved.

Please contact us to get the right configuration for your reactor applications.