Peak collect tubing 25
Peak collect tubing 150
Instructions

Introduction

There are several options for configuring your lab-scale ÄKTA™ system to support automated multistep purification. During an automated multistep run, the peak must be handled between two purification steps. The use of the Peak collect tubing offers a standardized way to redirect the peak for intermediate storage.

The Peak collect tubing consists of a 20 cm tubing with corresponding connectors. Two versions of Peak collect tubing are available:

- Peak collect tubing 25, compatible with ÄKTA pure 25 (orange, i.d. 0.5 mm)
- Peak collect tubing 150, compatible with ÄKTA pure 150 (green, i.d. 0.75 mm)

These *Instruction*s describe how to connect the Peak collect tubing for four examples of ÄKTA pure configurations.

ÄKTA pure configuration	Intermediate Peak collected in
ÄKTA pure basic configuration, on page 2	Sample loop or Superloop™ attached to Injection Valve
ÄKTA pure with a Loop valve, on page 2	Sample loop attached to Loop valve
ÄKTA pure with a sample pump, on page 3	Sample loop attached to Injection valve
ÄKTA pure with a Mixer valve V9-M, on page 4	Sample loop attached to Injection valve

The UNICORN™ method needed to enable automated multistep purification varies with your system configuration, refer to *cytiva.com/pureautomation* for detailed instructions.

ÄKTA pure basic configuration

For this configuration, the intermediate peak is collected in a sample loop or a Superloop attached to the Injection valve.

Required modules to support automated multistep purification in this example are:

Quantity	Module	ÄKTA pure 25	ÄKTA pure 150
1	Inlet valve	**V9-IAB** or **V9-IA** and **V9-IB**	**V9H-IAB** or **V9H-IA** and **V9H-IB**
1	Column valve	**V9-C**	**V9H-C**
1	Outlet valve	**V9-Os** or **V9-O**	**V9H-Os** or **V9H-O**

Connect the tubing

For Outlet valve **V9-Os** and **V9H-Os**: connect the tubing between Outlet valve position **Out** and injection valve position **SaP**, see the orange tubing in *Fig. 1, on page 2*.

For Outlet valve **V9-O** and **V9H-O**: connect the tubing between Outlet valve position **Out 2** and injection valve position **SaP**.

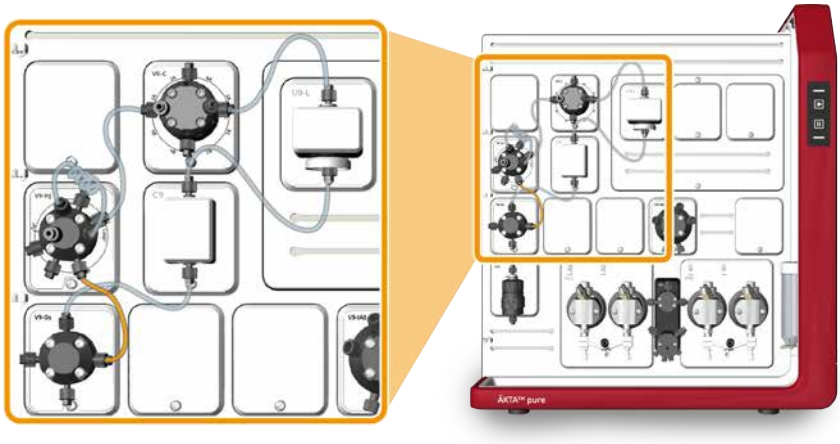


Figure 1: Connection of the tubing, ÄKTA pure basic configuration

ÄKTA pure with a Loop valve

For this configuration, the intermediate peak is collected in a sample loop attached to the Loop valve.

Required modules to support automated multistep purification in this example are:

Quantity	Module	ÄKTA pure 25	ÄKTA pure 150
1	Inlet valve	**V9-IAB** or **V9-IA** and **V9-IB**	**V9H-IAB** or **V9H-IA** and **V9H-IB**
1	Column valve	**V9-C**	**V9H-C**
1	Outlet valve	**V9-Os** or **V9-O**	**V9H-Os** or **V9H-O**
1	Loop valve	**V9-L**	**V9H-L**

Connect the tubing

For Outlet valve **V9-Os** and **V9H-Os**: connect the tubing between the Outlet valve position **Out** and the Injection valve position **SaP**, see the orange tubing in *Fig. 2, on page 3*.

For Outlet valve **V9-O** and **V9H-O**: connect the tubing between the Outlet valve position **Out 2** and the Injection valve position **SaP**.

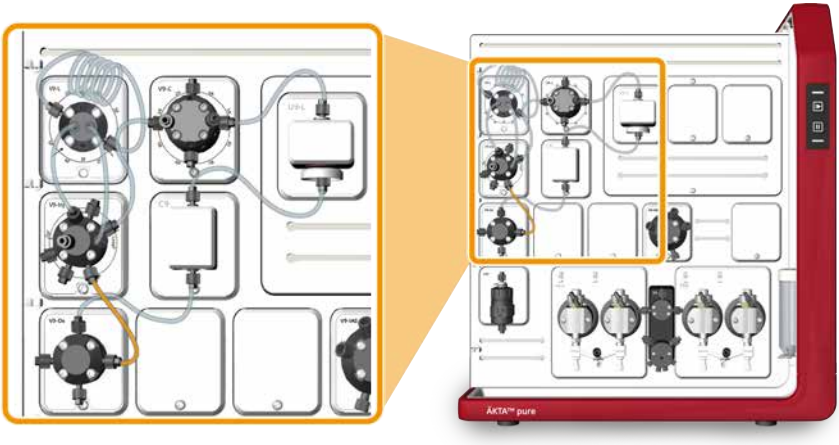


Figure 2: Connection of the tubing, ÄKTA pure with a Loop valve

ÄKTA pure with a sample pump

For this configuration, the intermediate peak is collected in a sample loop attached to the Injection valve.

Required modules to support automated multistep purification in this example are:

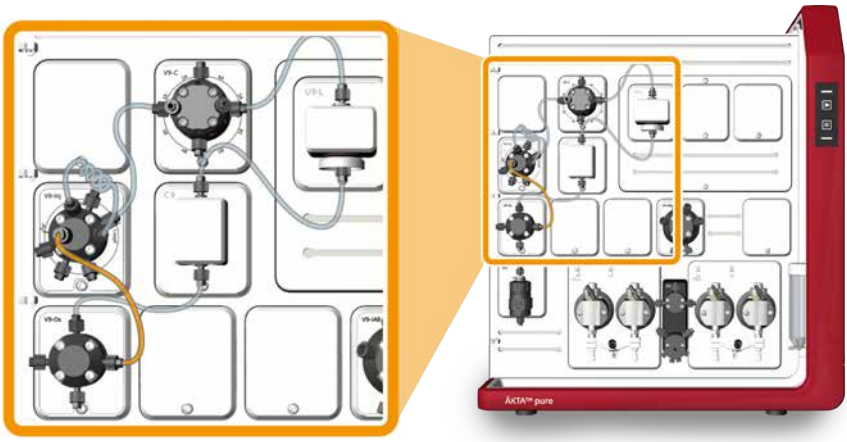
Quantity	Module	ÄKTA pure 25	ÄKTA pure 150
1	Inlet valve	**V9-IAB** or **V9-IA** and **V9-IB**	**V9H-IAB** or **V9H-IA** and **V9H-IB**
1	Column valve	**V9-C**	**V9H-C**
1	Outlet valve	**V9-Os** or **V9-O**	**V9H-Os** or **V9H-O**
1	Sample pump	**S9**	**S9H**

Connect the tubing

For Outlet valve **V9-Os** and **V9H-Os**: connect the tubing between Outlet valve position **Out** and Injection valve position **Syr**, see the orange tubing in *Fig. 3, on page 4*.

For Outlet valve **V9-O** and **V9H-O**: connect the tubing between Outlet valve position **Out 2** and Injection valve position **Syr**.

Figure 3: Connection of the tubing, ÄKTA pure with a Sample pump



ÄKTA pure with a Mixer valve V9-M

For this configuration, the intermediate peak is collected in a sample loop attached to the Injection valve.

Required modules to support automated multistep purification in this example are:

Quantity	Module	ÄKTA pure 25	ÄKTA pure 150
1	Inlet valve	**V9-IAB** or **V9-IA** and **V9-IB**	**V9H-IAB** or **V9H-IA** and **V9H-IB**
1	Column valve	**V9-C**	**V9H-C**
1	Outlet valve	**V9-Os** or **V9-O**	**V9H-Os** or **V9H-O**
1	Mixer valve	**V9-M**	**V9H-M**

Connect the tubing

For Outlet valve **V9-Os** and **V9H-Os**: connect the tubing between the Outlet valve position **Out** and the Mixer bypass valve position **ReInj**, see the orange tubing in *Fig. 4, on page 5*.

For Outlet valve **V9-O** and **V9H-O**: connect the tubing between the Outlet valve position **Out 2** and the Mixer bypass valve position **ReInj**.

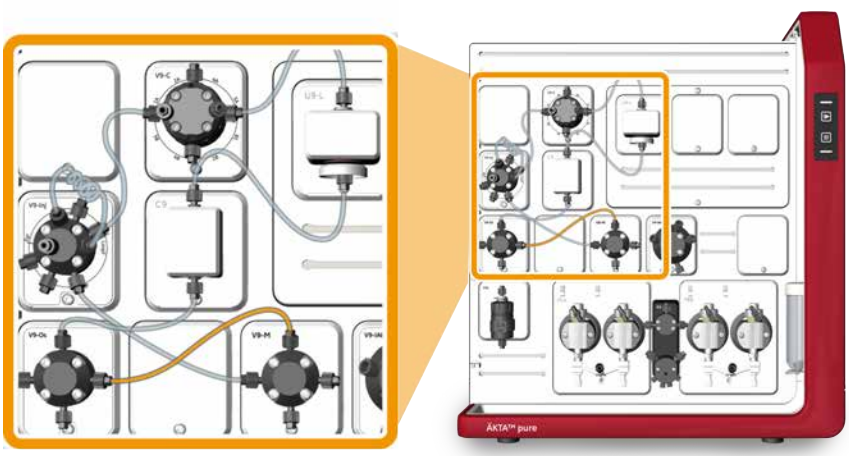


Figure 4: Connecting the tube, ÄKTA pure with a Mixer valve V9-M

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