

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 *Instructions* 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](https://www.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**.

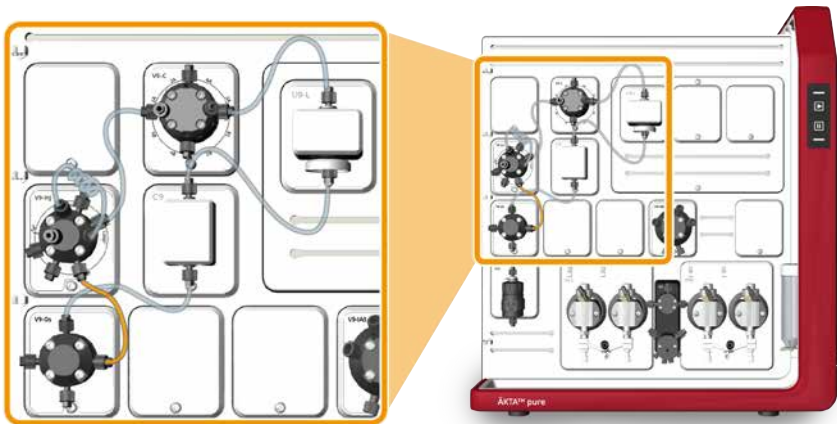


Figure 1: Connection of the tubing, ÄKTA pure basic configuration

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**.

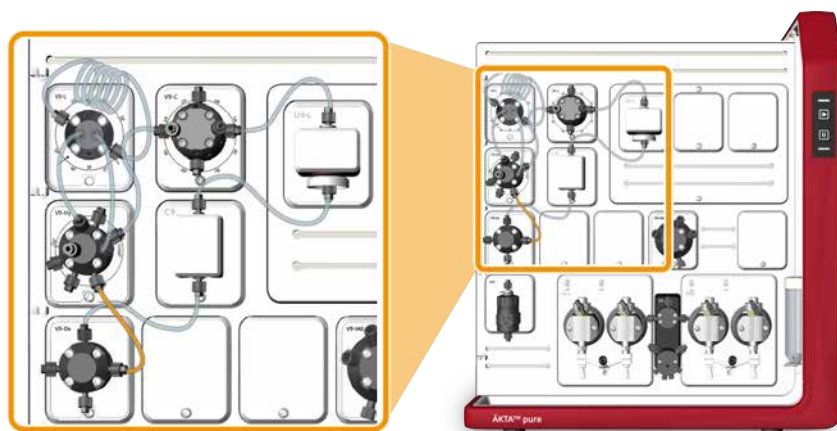


Figure 2: Connection of the tubing, ÄKTA pure with a Loop valve

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:

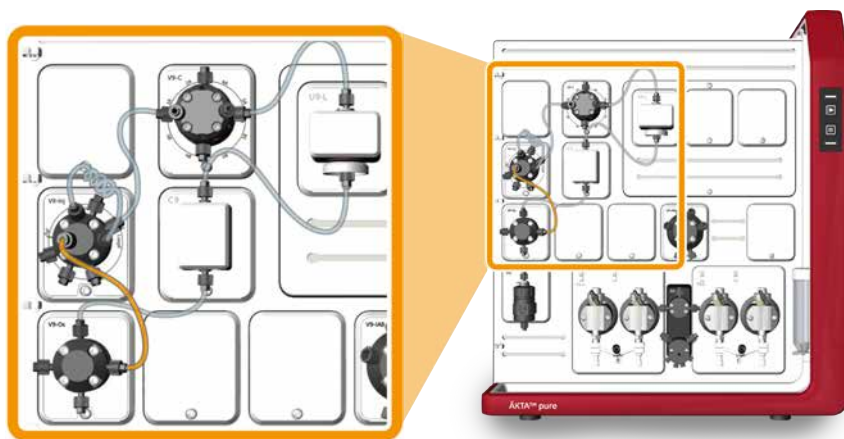
Quantity	Module	ÄKTA pure 25	ÄKTA pure 150
1	Inlet valve	V9-IAB or V9-IA and V9-IB	V9H-IAB or V9H-IA and V9H-IB
1	Column valve	V9-C	V9H-C
1	Outlet valve	V9-Os or V9-O	V9H-Os or V9H-O
1	Sample pump	S9	S9H

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 **Relnj**, 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 **Relnj**.

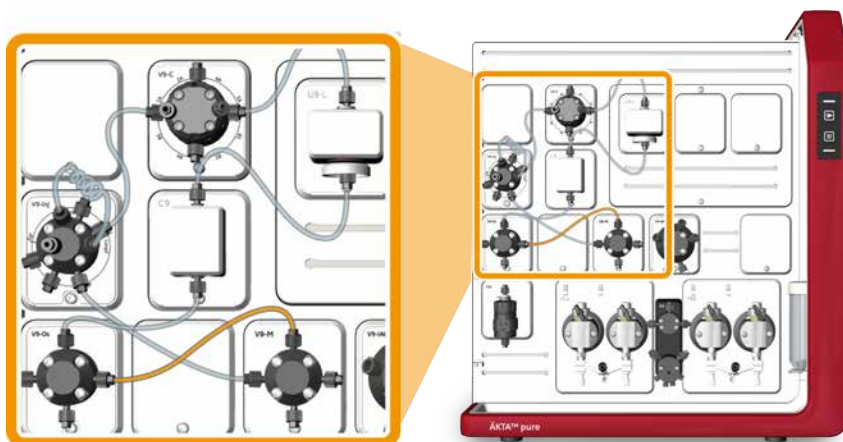


Figure 4: Connecting the tube, ÄKTA pure with a Mixer valve V9-M



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