Install Injection Valve V9-J

Instructions

Scope

This document describes how to install Injection Valve **V9-J** on ÄKTA™ systems.

Instruction

Follow the steps below to replace or install a module or module panel. Module panels must be used in positions not occupied by modules.

Note: *The illustrations show the principle of how to replace and install a module. The position of the module on the instrument and the type of module used will depend on the module being installed.*

> **CAUTION**
>
> **Disconnect power.** Always switch off power to the ÄKTA instrument before replacing any of its components, unless otherwise stated in the user documentation.

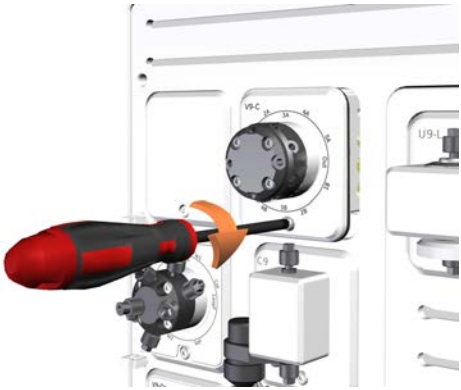
Step	Action
1	Disconnect power from the instrument by using the instrument power button.
2	If a module is to be replaced, loosen the tubing connectors and remove the tubing from the existing module.

Step	Action
3	Loosen the screw in the module or module panel with a Torx™ T20 screwdriver.

4	Remove the module or module panel and disconnect the cable at the back.

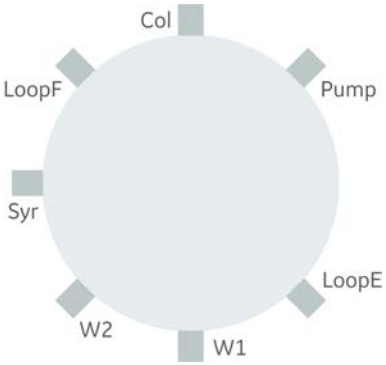
Step	Action
5	Connect the cable to the new module or module panel.

6	Insert the module or module panel and fasten it with a Torx T20 screwdriver.

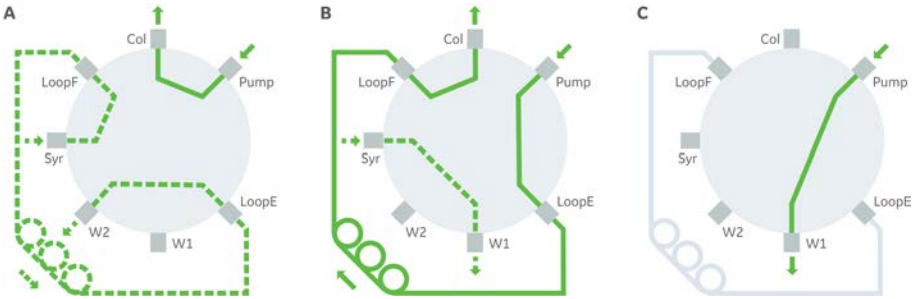


Ports and flow paths

The tables below describe the ports of and different flow paths through Injection Valve **V9-J**.

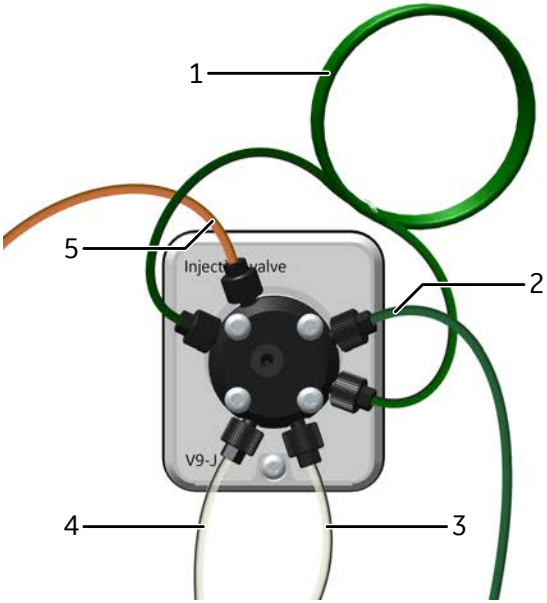
	Port	Description
	**Col**	Outlet to the Column Valve or column.
	LoopF	Port for connection of a loop. Used to fill a loop.
	Syr	Port for connection of a syringe.
	W2	Loop waste
	W1	Pump waste
	LoopE	Port for connection of a loop. Used to empty a loop into the flow path.
	Pump	Inlet from the Pump.

The image below shows the flow paths in Injection Valve **V9-J** when (A) loading a sample to a loop, (B) injecting a sample onto the column, and (C) washing the system.



Connect tubing

The illustration shows the tubing connecting Injection Valve **V9-J**.



Part	Function
1	Sample loop or Superloop, connected to ports **LoopF** and **LoopE**
2	Tubing **4**, connects port **Pump** to the mixer
3	Tubing **W1**, directs pump waste to a waste bottle through port **W1**
4	Tubing **W2**, directs loop waste to a waste bottle through port **W2**
5	Tubing **5**, connects port **Col** to a column or column valve

CAUTION

Fasten the waste tubing. Make sure that tubing is securely fastened to the waste ports **W**, **W1**, and **W2**.

CAUTION

Make sure there is a sample loop or a stop plug in place in the loop positions in the injection valve to avoid liquid spurting out during valve turns.

Node ID

All modules have a pre-configured Node ID according to their function. The Node ID is used by the instrument to distinguish between several units of the same type.

The Node ID for the Injection Valve **V9-J** is 25. Check the Node ID of the module when troubleshooting. See the *User Manual* of your instrument for more information.

Note: *The function of a module is defined by the module type and the Node ID, not by its physical position.*

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