

ÄKTA OligoPilot Conversion 10 to 100 plus kit (28410087)

Instructions

General

Before commencing with the installation, carefully read through this entire document.

Each kit includes the necessary pump heads to change the flow rate characteristics of the pump to 2 × 100 mL/min. The kit also includes tubings, connectors and the UNICORN™ Strategy/ Template methods necessary for the conversion.

Unpacking

Unpack the ÄKTA™ OligoPilot™ Conversion 10 – 100 plus Kit, and check the items against the supplied packing list. Inspect the items for any damage that may have occurred during transportation.

It is recommended to reuse the packing material to store the surplus ÄKTA OligoPilot plus equipment for possible future use.

Software pre-requisites

The UNICORN Strategy has to be changed to the proper version, AKOPc110 (for ÄKTA OligoPilot plus 100). See *UNICORN User Reference Manual - UNICORN for ÄKTA OligoPilot*.

Required tools and documents

- Tools included in Tool Kit 56-3008-20 (included with the existing system)
- ÄKTA design Component binder 18-1143-53 (included with the existing system)

Removing existing ÄKTA OligoPilot plus capillaries



WARNING

Ensure that the mains supply is disconnected before starting the installation.



WARNING

The existing tubing contains acetonitrile - follow necessary precautions and use protective gear.

Remove the colored tubing between the pump heads and the tubing marked with colored plastic markers (see diagram below for details).

Changing the ÄKTA OligoPilot plus pumpheads

Step	Action
1	Remove the four pump heads, including pistons and return springs. Use the 3 mm hex key included in the Tool kit 56-3008-20, and save the attachment screws. They will be reused.
2	Remove the inlet manifolds by unscrewing the end pieces. They will be reused.
3	Mount the new pump heads. Please observe the "UP" marking. Fit in position and fasten, using the old attachment screws.
4	Mount the coloured pump head capillaries. The capillaries from the A-pump heads should be connected to the inner part of the outlet manifold.
5	Mount the old inlet manifold on each pump module and fix with the screwed end pieces (do not over tighten).

Installing the ÄKTA OligoPilot plus capillaries

Step	Action
1	If not already done, unpack and check the ÄKTA OligoPilot plus Tubing Kit.
2	Install the color marked tubing according to the Tubing diagram on next page.

Checking the installation

When the installation is complete, check that all the connections and mountings are correct according to the diagram. All excess materials are stored in the Box-900.

ÄKTA OligoPilot plus installation test

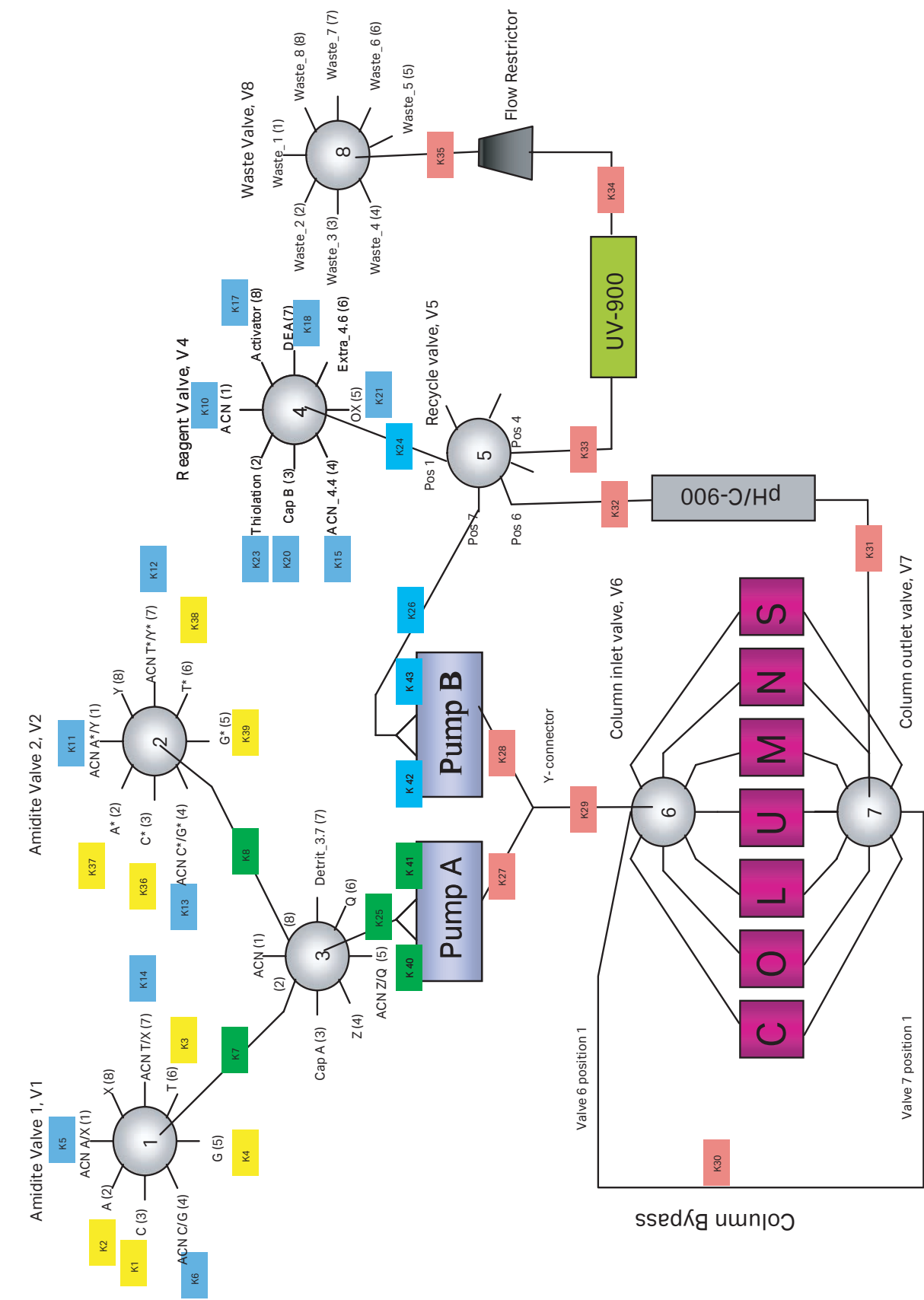
Perform the system installation test that corresponds to the configuration you have set up, as described in *ÄKTA OligoPilot plus User Manual (18114220)*, Chapter 9.

ÄKTA OligoPilot plus test record

Evaluate the results as described in *ÄKTA OligoPilot plus User Manual (18114220)*, Chapter 9. Print out report from UNICORN.

Tubing diagram

Table 1. ÄKTA OligoPilot plus



Tubing sizes

Tubing No	Material	I.D. (mm)	O.D. (Inch)	Length (mm)	Marking text	Marking color
K1	PEEK	1.0	1/16"	900	C	Yellow
K2	PEEK	1.0	1/16"	900	A	Yellow
K3	PEEK	1.0	1/16"	900	T	Yellow
K4	PEEK	1.0	1/16"	900	G	Yellow
K5	PTFE	2.9	3/16"	290	K5	White
K6	PTFE	2.9	3/16"	210	K6	White
K7	PTFE	1.6	1/8"	240	K7	Green
K8	PTFE	1.6	1/8"	210	K8	Green
K9	PTFE	2.9	3/16"	300	K9	White
K10	PTFE	2.9	3/16"	350	K10	White
K11	PTFE	2.9	3/16"	350	K11	White
K12	PTFE	2.9	3/16"	370	K12	White
K13	PTFE	2.9	3/16"	225	K13	White
K14	PTFE	2.9	3/16"	350	K14	White
K15	PTFE	2.9	3/16"	250	K15	White
K16	PTFE	2.9	3/16"	470	K16	White
K17	PTFE	2.9	3/16"	390	K17	White
K18	PTFE	2.9	3/16"	455	K18	White
K19	PTFE	2.9	3/16"	260	K19	White
K20	PTFE	2.9	3/16"	245	K20	White
K21	PTFE	2.9	3/16"	160	K21	White
K22	PTFE	2.9	3/16"	350	K22	White
K23	PTFE	2.9	3/16"	255	K23	White
K24	PTFE	1.6	1/8"	360	K24	Blue
K25	PTFE	1.6	1/8"	900	K25	Green
K26	PTFE	1.6	1/8"	510	K26	Blue
K27	ETFE	1.0	1/16"	80	K27	Red
K28	ETFE	1.0	1/16"	80	K28	Red
K29	ETFE	1.0	1/16"	900	K29	Red
K30	ETFE	1.0	1/16"	270	K30	Red
K31	PTFE	1.6	1/8"	500	K31	Red
K32	PTFE	1.6	1/8"	150	K32	Red
K36	PEEK	1.0	1/16"	900	C*	Yellow
K37	PEEK	1.0	1/16"	900	A*	Yellow
K38	PEEK	1.0	1/16"	900	T*	Yellow
K39	PEEK	1.0	1/16"	900	G*	Yellow
K40	PTFE	1.6	1/8"	70	K40	Green
K41	PTFE	1.6	1/8"	70	K41	Green
K42	PTFE	1.6	1/8"	70	K42	Blue
K43	PTFE	1.6	1/8"	70	K43	Blue

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