



Single-layer columns S series (S35,S50,S75,S100)

1. Product Description

Single-layer columns S series are designed to connect medium pressure purification systems. Column tube matching adapters can be adapted to a variety of medium pressure purification systems.

2. Product Information

2.1 Component of the Column

No.	Accessories Name
1	Column tube
2	Screws and nuts
3	Column end piece
4	Glass tube
5	Bottom plungers
6	Column plungers
7	Adapter
8	Adjuster knob

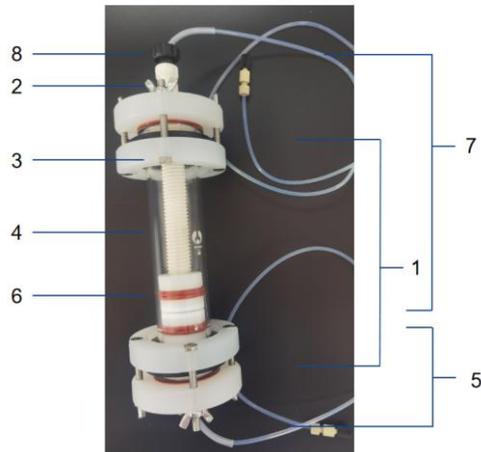


Figure 2.1 Component of Column

2.2 Component of Accessories at both ends

No.	Accessories Name
9	Stop plugs
10	Connector for 1/16 tubbings
11	Connector for 1/8 tubbings
13	tubbings
13	Top cover
14	Outer rod
15	Bottom cover
16	Inner rod
17	O-ring
18	Fliter-holder (Matching S75 and S100)
19	Filter

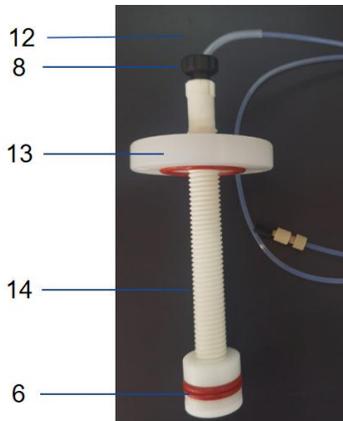


Figure 2.2 Component of Adapter

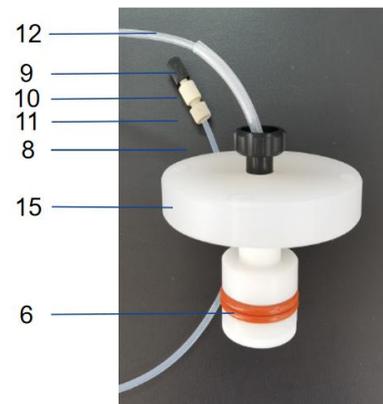


Figure 2.3 Component of Bottom plungers



Figure 2.4 Inner rod



Figure 2.5 Accessories of column plungers



3. Usage method

3.1 Dismantle and installation of Accessories

3.1.1 Dismantle and installation of Adapter

- 1) Remove the adapter
 - a. Unscrew the adjuster knob. See step 1 in figure 3.1.
 - b. Loosen the nut and remove. See step 2 in figure 3.1.
 - c. Take out the adapter. See step 3 in figure 3.1.
- 2) Install the adapter
 - a. Tilt the adapter properly, put it into the column tube.

Note: If there is liquid in the column tube, avoid air bubbles between column plungers and the liquid level when placing the adapter.

- b. Install screws and nuts.
- c. Rotate down to adjust the adapter position.
- d. Tighten the adjuster knob after adjusting the proper position.

3.1.2 Dismantle and installation of Bottom plungers

- 1) Remove the bottom plungers
 The operation steps are the same as 3.1.1.
- 2) Install the bottom plungers
 - a. Place the bottom plungers into the column tube vertically. See step 1 in figure 3.2.
 - b. Install screws and nuts. See step 2 in figure 3.2.
 - c. Tighten the adjuster knob. See step 3 in figure 3.3.

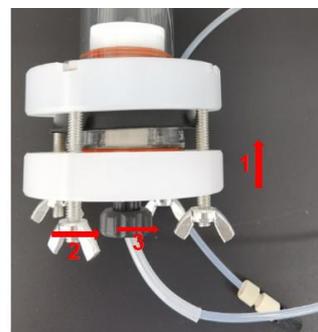
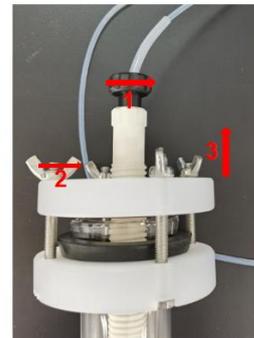


Figure 3.2 Installation of Bottom plungers

3.1.3 Dismantle and installation of screws and nuts

The adapter and bottom plungers and column tube are fixed by four screws and nuts.

- 1) Remove the screws and nuts
 - a. Loosen the symmetric nuts at the same time as shown in Figure 3.3.
 - b. Remove nut.
 - c. Remove screws.
- 2) Install the screws and nuts
 - a. Insert the screws into the corresponding holes.
 - b. Install nut.
 - c. Tighten symmetrical nuts at the same time as shown in Figure 3.3.

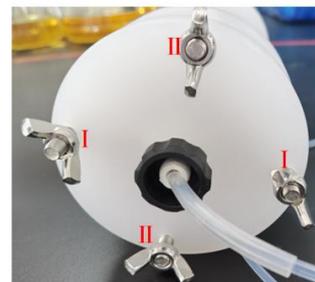


Figure 3.3 Dismantle and installation of screws and nuts

3.1.4 Fix Inner rod

This step is performed after the adapter and the bottom plungers are disassembled to ensure that inner rod structure is fixed.

- 1) Unscrew the adjuster knob and take down.
- 2) Take out the inner rod, tighten the screw structure between inner rod and plunger. See figure 3.3.
- 3) Install the inner rod, tighten the adjuster knob.

3.2 Connect the purifier

Unscrew the stop plugs, connect the connector for 1/16 tubings to the instrument.

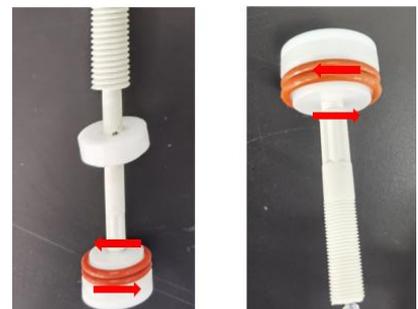


Figure 3.4 Fix Inner rod

4. Troubleshooting

Problem	Probable Cause	Solution
Back pressure too high	Filters are clogged	Clean or replace filters.
	Pipeline is folded and the flow path is not smooth.	Adjust twisted tubings.
Leakage	Column end piece is leakaged	Tighten the connector between top cover or bottom cover and column end piece.
	Adjuster knob is leakaged	Refer to step 3.1.3 to tighten the inner rod and column plungers.