



Double-layer columns SXX series

1. Product Description

Double-layer columns SXX series are designed to connect medium pressure purification systems. Column tube matching adapters can be adapted to a variety of medium pressure purification systems. **Double-layer columns SXX series** are equipped with Packing reservoir, which is convenient for media filling.

2. Product Information

2.1 Component of the Column

No.	Accessories Name
1	Column tube
2	Glass inner tube
3	Insulation jacket
4	Column end piece
5	Bottom plungers
6	Column plungers
7	Adapter
8	Adjuster knob

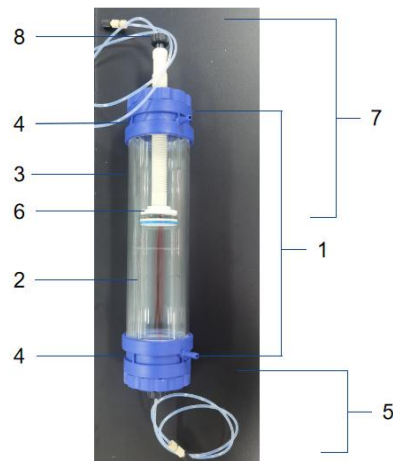


Figure 2.1 Component of Column

2.2 Component of Accessories at both ends

No.	Accessories Name
9	Stop plugs
10	Connector for 1/16 tubbings
11	tubbings
12	Top cover
13	Snap
14	Outer rod
15	Plunger
16	Bottom cover
17	Inner rod
18	O-ring
19	Fliter-holder
20	Filter

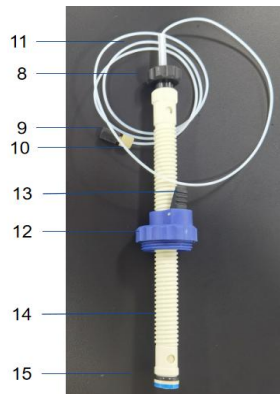


Figure 2.2 Component of Adapter

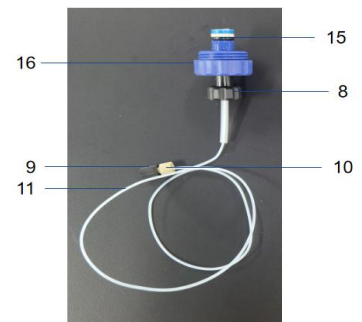


Figure 2.3 Component of Bottom plungers

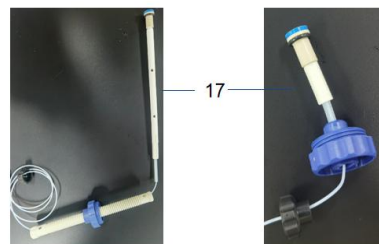


Figure 2.4 Inner rod

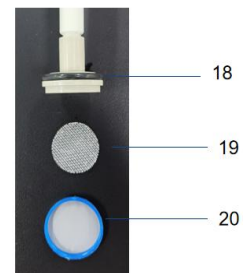


Figure 2.3 Accessories of column plungers



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. Hold the column end piece, unscrew the top cover. 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. Tighten the top cover.
- c. Press and hold the black snap to adjust the adapter position downward.
- d. Tighten the adjuster knob after adjusting the proper position.



Figure 3.1 Dismantle of Adapter

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. Tighten the bottom cover. 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 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.

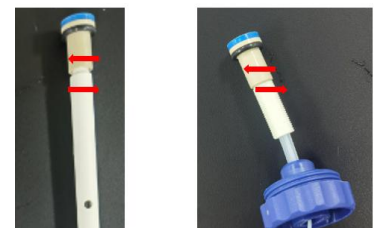


Figure 3.3 Fix Inner rod

3.2 Connect the purifier

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

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.