

INSTRUCTION MANUAL

■ Introduction

This product is a guard column “Shim-pack Fast-OA(G)” and a replacement cartridge. Please read the following instructions before use.

■ Specifications

The product specifications are as follows.

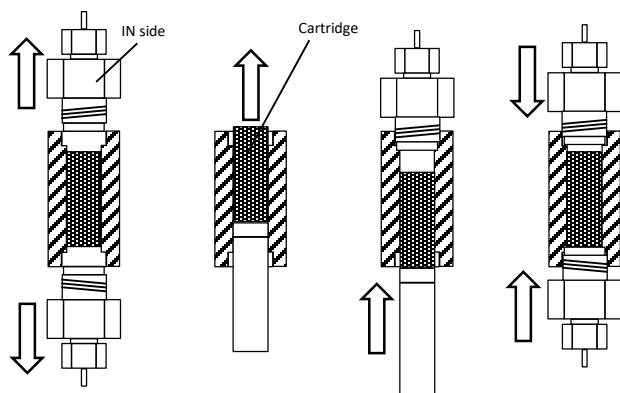
Item	Shim-pack Fast-OA(G)
Base material	styrene divinyl benzene copolymer
Ion exchange group	sulfo group
Particle size (μm)	12
Column size	10 mm L. × 4.0 mm I.D.
Max. Pressure	25.0 MPa or less and 1.0 MPa or less as the differential pressure per 1 guard column
Max. Temperature (°C)	50

■ Operating Precautions

Please check if anything is missing or damaged before use. If there are any signs of damage, notify your local Shimadzu representative at once.

■ Cartridge Replacement

If the pressure of the guard column rises about 1.0 MPa compared to before use, replace it with a spare cartridge according to the following procedure.



1. Loosen the screws at both ends of the guard column with a spanner
2. Push the cartridge with the attached plunger
3. Tighten the IN side screw and push in the new cartridge. Loosen the IN side and check that the cartridge is in the center.
4. Tighten the screws at both ends of the column.

■ Column Installation

The flow direction of the column is shown on the column (→). When installing the column, ensure that the flow direction matches the mobile phase flow direction.

The contents of the cartridge are dry. Please confirm the following precautions when starting to use the guard column and replacing the cartridge.

- Replace the entire flow line with mobile phase before attaching the guard column.
- Connect the guard column outlet tubing directly to the waste bottle so that air bubbles in the cartridge do not enter the analytical column or detector.
- Set the flow rate to 1.0 mL/min for 10 minutes or more to completely remove air bubbles.
- After confirming that air bubbles have been completely removed, stop the pump and tighten the nut by further about 30° from the finger-tighten position.
- Connect the tubing with the analytical column.

■ Column Handling Precautions

Do not drop or hit the column. Strong shocks can cause the column to deterioration.

To maximize column life, use the columns within the usage condition shown in the “■ Specifications”.

Also, use the P.Max around continuously or suddenly change the pressure, which may cause a decrease in the column life, should be a precaution. Column should be disconnected from the system after the pressure gauge indicates “0”.

■ Column storage

When the column will not be used for a while, remove the column from the LC system, plug both ends with a stop plug, and store in a room with minimize temperature fluctuation. Do not remove the cartridge. Do not store in places where temperatures may rise or where there is a risk of freezing.

■ Disposal Precautions

When disposing of the column, do so in accordance with the processing standards determined by law, separately from general industrial waste and household garbage.

■ Technical Support

Should you find any defect in performance, please contact your local Shimadzu representative, who will ensure your complete satisfaction.

We regret that we cannot guarantee the lifetime of columns, also that we cannot accept any claim when performance has deteriorated due to noncompliance with the operation procedures elucidated above, or as a result of normal aging.