

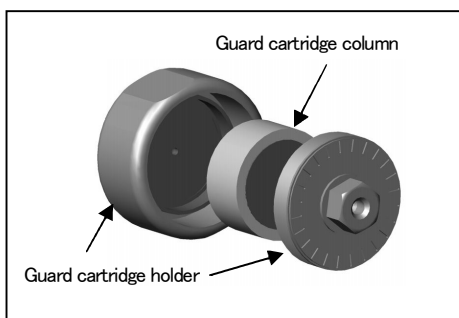
Care and Use Instructions

YMC Semi-Preparative Guard Cartridge

1. Introduction

YMC Semi-Preparative Guard Cartridge is a guard cartridge column packed under high pressure with packing materials of various functional groups

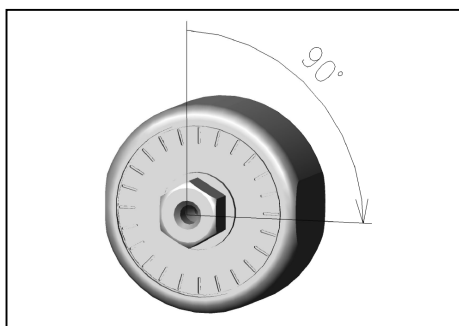
2. Structure of YMC Semi-Preparative Guard Cartridge



- YMC Semi-Preparative Guard Cartridge is composed of a pair of cartridge holders and a cartridge column.
- The cartridge holders are reusable. In case of degradation, replace the cartridge column only.
- YMC Semi-Preparative Guard Cartridge is available in dimension of 10×20 mm I.D. and 10×30 mm I.D. with various functional groups
- In principal, the same material and the same inner diameter as main analytical column is recommended.

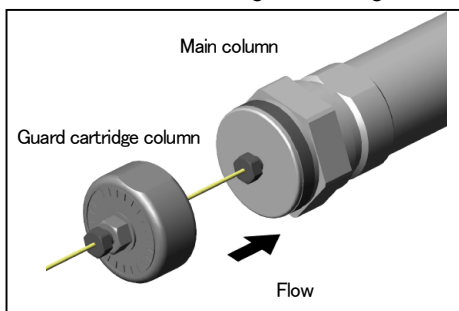
3. Usage

STEP 1: Assembly of Semi-Preparative Guard Cartridge



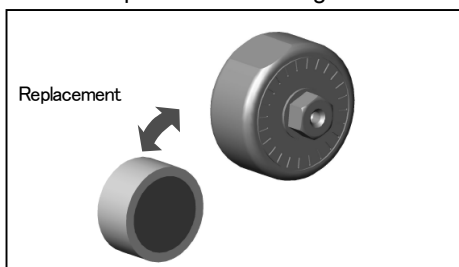
- Insert the cartridge column into the holder. The guard cartridge is direction free.
- Tighten by hands as much as possible. Then use wrench, sizes mentioned below. Tighten, as a guide, by about 90–135 degrees (about 6–9 tick marks). In the case where leakage is occurred, please tighten further.
- Required wrench size is 19 mm.
- Place a wrench on hexagonal protruding parts on both inlet-side and outlet-side, and tighten while holding the holder body.
- Do not over tighten when you tighten further, or it may damage cartridge column.

STEP 2: Connection of guard cartridge



- The constructed guard cartridge is connected to the main-column (inlet) with column coupler. Small inner-diameter and short length tubing is recommended.
- The flow direction of the guard cartridge should not be changed after the first connection. Re-connection in reverse direction may cause the impurities adsorbed at inlet-side of the Guard Cartridge to flow out to main column
- In case of leakage, tighten holders until the leakage stops.

STEP3: Replacement of cartridge column



- The replacement time of the guard cartridge column can be judged by the increase of pressure, the change in peak shapes and resolution.
- Repeated injection of a large amount of sample may result in loss of adsorption ability of guard cartridge column. In such case, impurity to be trapped by guard cartridge column may flow into the main column.
- Early replacement of the cartridge column is recommended to prevent contamination of main column.