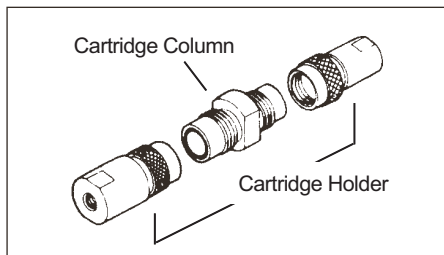


## ■ Introduction

This product is a disposable guard column packed under high pressure with packing materials of various functional groups identical to YMC-Pack analytical columns.

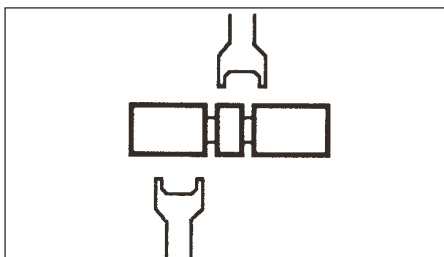
## ■ Structure of YMC Guard Cartridge



- The main body is composed of a pair of cartridge holders and a cartridge column. The cartridge column is threaded for easy replacement.

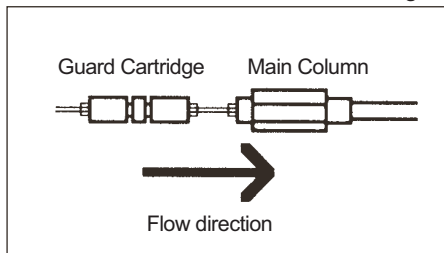
## ■ Usage

### ① STEP 1: Composition of Guard Cartridge



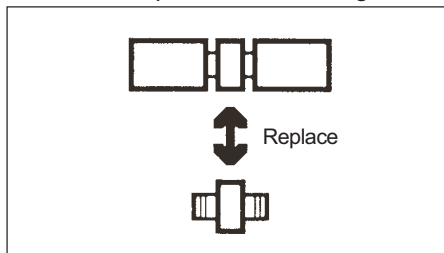
- Fix a pair of holders on each end of a cartridge column. Both holders are the same structure (direction-free type).
- The required spanner size is 8 mm (5/16 inches) (for cartridge-column) and 9.6mm (3/8 inches) (for cartridge-holder).

### ② 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 type is recommended (less than 0.25 mmI.D. and less than 100 mm length). YMC-Universal connector (double) is useful for the connection.
- In order to protect the main-column, the flow direction in the guard cartridge should not be changed after the connection. Re-connecting by reverse direction may cause the impurities adsorbed at inlet-side of the guard cartridge to flow out to main-column.

### ③ STEP 3: Replacement of Cartridge Column



- Remove the cartridge column by the reverse procedure.
- The replacement time of the cartridge column is judged by the increase of pressure, the lose of peak shapes, and so on. Early replacement of the cartridge column is recommended to prevent contamination of main-column.
- The cartridge holder is reusable.

## ■ Remarks

The guard cartridge is designed to work as a guard column. This guard cartridge is suitable for main columns with 4.0 to 6.0 mmI.D.. Performance of the guard cartridge is not guaranteed if used in applications other than providing protection for 4.0 to 6.0 mmI.D. YMC HPLC columns. The same packing material with main column is recommended.

Please consult the YMC Care and Use instructions for additional information on proper care of the HPLC column.

## YMC Co., Ltd.

YMC Karasuma-Gojo Bldg., 284 Daigo-cho, Karasuma Nishiiru Gojo-dori, Shimogyo-ku, Kyoto 600-8106, JAPAN  
TEL: +81-75-342-4515 FAX: +81-75-342-4550 Email: sales@ymc.co.jp URL: www.ymc.co.jp

(UM090127AE)