

Care and Use Instructions

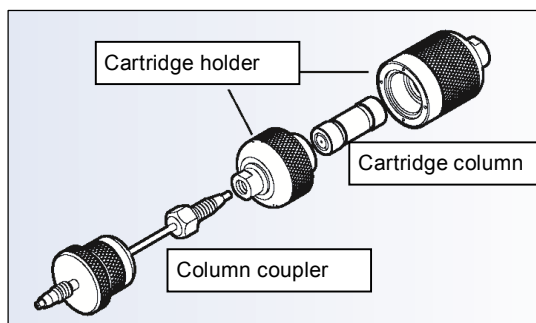
YMC Guard Cartridge column

Hand-Tight Type

1. Introduction

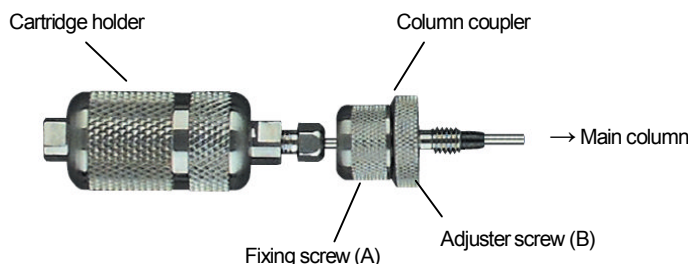
YMC Guard Cartridge column is a guard cartridge column packed under high pressure with packing materials of various functional groups.

2. Specifications



- YMC Guard Cartridge column is composed of a pair of cartridge holder, cartridge column and column coupler.
- The cartridge holder feature Parker style fittings (Port depth : ca. 2 mm/0.09 inch).
- The cartridge column is exchangeable by hand.
- The cartridge holder are reusable. In case of degradation, replace the cartridge column only.
- The cartridge holder and a column coupler can be removed with a wrench (1/4 inch) etc.

3. Usage



- 1) New cartridge column is inserted into the holder.
- 2) The holder is tightened fully by hand. If necessary, the holder is tightened up to 30° using 1/4 inch wrench.
- 3) To connect the column coupler to the main column, unscrew the fixing screw **(A)**
- 4) Insert the capillary into the main column port and screw the adjuster screw **(B)** by hand.
- 5) The fixing screw **(A)** is tightened fully by hand.

4. Attention

- In principal, a cartridge with the same material and the same inner diameter as main analytical column is recommended.
- XPGCH-Q1 for 10 mm guard and XPGCH-Q2 for 20 mm guard and all internal diameters for 1.0 to 4.6 mm I.D. columns.
- There is a possibility of damaging if a cartridge holder is over tightened with a spanner etc. more than needed.
- If a cartridge column is repeatedly attached and detached, sealing is lost, and there is a possibility of carrying out a liquid leak.
- 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
- 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.