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Supplemental Information related to TSKgel NH<sub>2</sub>-100 3 $\mu$ m columnsINSTRUCTION MANUAL for TSKgel NH<sub>2</sub>-100 DC 3 $\mu$ m (4.6 mm(I.D.), 5 cm(L))

To help protect you and/or your property from potential damage and ensure personal safety, please read the "Precautions" which are printed in the beginning of the "TSKgel NH<sub>2</sub>-100 3 $\mu$ m" INSTRUCTION MANUAL thoroughly before using the above TSKgel NH<sub>2</sub>-100 DC 3 $\mu$ m column.

For this TSKgel NH<sub>2</sub>-100 DC 3 $\mu$ m column, please read section 1, section 3 (1), section 7 (Table 1), and section 13 (Table 4) on this supplemental information sheet instead of the corresponding sections you find on the "TSKgel NH<sub>2</sub>-100 3 $\mu$ m" INSTRUCTION MANUAL. Please read section 4 (13) in addition to those in each section on the "TSKgel NH<sub>2</sub>-100 3 $\mu$ m" INSTRUCTION MANUAL.

### 1. General Information

This TSKgel NH<sub>2</sub>-100 DC 3 $\mu$ m column has the outlet end fitting with an external male connector so that it can be easily connected to another HPLC column.

In this supplemental information sheet, only those instructions different from the other TSKgel NH<sub>2</sub>-100 3 $\mu$ m columns are included. Please refer to the "TSKgel NH<sub>2</sub>-100 3 $\mu$ m" INSTRUCTION MANUAL regarding instructions which are not mentioned in these document.

### 3. Column Parts

#### 1) Analysis column

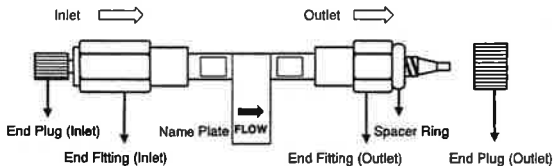


Figure 2 Column Parts

#### 4. Column Installation

- (13) To directly connect the TSKgel NH<sub>2</sub>-100 DC 3 $\mu$ m column to another HPLC column, finger-tighten the connection between the outlet of the TSKgel NH<sub>2</sub>-100 DC 3 $\mu$ m column and the inlet of the second column, and then tighten with appropriate wrenches until you feel some resistance. Check for solvent leaks from the connection. The following operations may cause permanent deterioration in column efficiency.
- Damage to the tip of the outlet end fitting caused by mechanical force such as accidentally dropping the column.
  - Tightening the connection between the two columns to more than 2.0 Nm of torque (more than about 30 degrees).
  - Repeated connections and disconnections of the two columns. It is recommended that the two columns are kept connected during storage.
  - Connection to other companies' columns not compatible with TOSOH's.

#### 7. Flow Rate

Table 1 Maximum Pressure

Part No.	Type	Column Size mm(I.D.) $\times$ cm(L)	Maximum Pressure (MPa)
0021999	TSKgel NH <sub>2</sub> -100 DC 3 $\mu$ m	4.6 $\times$ 5	5

#### 11. Guard Column

##### 11-2 Type and Selection of Guard Columns

Table 2 Cartridge Column

Part No.	Type	Column Size mm(I.D.) $\times$ cm(L)	Applied Column mm(I.D.) $\times$ cm(L)
0021972	TSKguardgel NH <sub>2</sub> -100 3 $\mu$ m	3.2 $\times$ 1.5	TSKgel NH <sub>2</sub> -100 DC 3 $\mu$ m (4.6 $\times$ 5)

Note: Three cartridge columns are packed in a box.

#### 13. Quality Specification and Warranty

##### 13-3 Warranty

Table 4 Guaranteed Specifications

Part No.	Type	Column Size mm(I.D.) $\times$ cm(L)	Number of Theoretical plates (TP/Column)	Asymmetry factor
0021999	TSKgel NH <sub>2</sub> -100 DC 3 $\mu$ m	4.6 $\times$ 5	6,000	0.90~1.30

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