

Packing Equipment HR 10

The Packing Equipment HR 10 (Code No. 18-1443-01) is intended for the efficient packing of High Resolution (HR) columns, with diameter 10 mm.

Dimensions

Length	150 mm
Internal diameter	16 mm

Unpacking

Please check the delivery against this list.

Designation	Code No.	No. supplied
Chromatographic tube HR 16/10	18-3132-01	1
Connector 16/10 with O-rings	18-1478-01	1
Inner end piece with O-ring	19-7846-01	1
Outer end piece	19-5167-01	1
Protective jacket HR 16/10 with O-rings	19-7450-01	1
Preflanged tubing 40 cm	18-0421-01	1
Wrench	19-7481-01	1
"Instructions"		1

Description

The Packing Equipment HR 10 is designed for efficient slurry packing of HR 10 columns. The Connector 16/10 connects your HR 10 column to the packing reservoir, the chromatographic tube HR 16/10. (The Packing Equipment HR 10 may also be used to pack HR 16/10 columns, in which case you need the Connector 16/16, available as a spare part.)

The preflanged tubing is connected to the inner end piece. The chromatographic tube seals against the inner end piece, and the protective jacket is held in position by the Connector 16/10 and the outer end piece.

The materials of the packing equipment consist of fluoroplastics, fluororubber, and glass.

Chemical and physical stability

The packing equipment resists aqueous solutions and all organic solutions most commonly used in chromatography, such as the lower alcohols and acetonitrile. Hydrocarbons, chlorinated hydrocarbons, and aromatic solvents should be avoided.

The packing equipment tolerates pressures up to 3 MPa (30 bar, 430 psi).

Disassembling and reassembling

The figure indications below refer to the exploded diagram (Fig. 2).

Disassembling

1. Unscrew the connector (4).
2. Pull off the protective jacket (2).
3. Unscrew the outer end piece (1).
4. Take out the inner end piece (3). If the end piece is difficult to remove, you can pry up the edge carefully with a spatula (see Fig. 1).

Reassembling

1. Make certain that all parts are clean.
2. Screw the connector (4) onto the chromatographic tube (5).
3. Push the protective jacket (2) into the connector.
4. Wet the O-ring on the inner end piece (3) with ethanol .
5. Insert the inner end piece (3) with preflanged tubing.
6. Screw on the outer end piece (1)

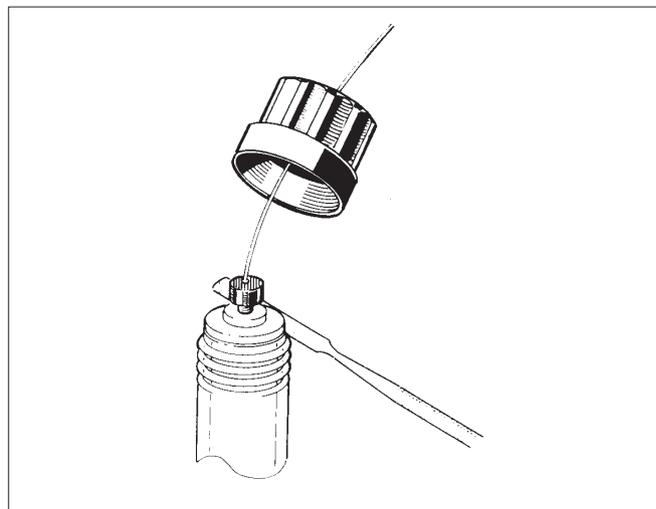
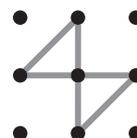


Fig. 1.



Packing an HR 10 column

1. Assemble your column without the top end piece.
2. Connect the packing reservoir (chromatographic tube (5)) and protective jacket (2) to your column via the connector (4).
3. Pour the gel suspension into the column.
4. Fill the complete system with water or buffer.
5. Wet the O-ring on the inner end piece (3) with ethanol.
6. Insert the inner end piece (3) carefully into the tube without trapping air bubbles.
7. Connect the inlet tubing to the valve (pump).

Your column is now ready to pack.

Cleaning

Suitable cleaning agents are solutions of laboratory detergents. With the exception of the protective jacket, components of the disassembled packing equipment may be autoclaved for 10 minutes at 120 °C.

Note: Always disassemble the packing equipment before autoclaving since the differential expansion of the materials can cause physical damage.

Spare parts and accessories

The part number refers to the number in the diagram of the exploded equipment (Fig. 2). When ordering, please quote according to the designations and code numbers below.

Part No.	Designation	Code No.
1	Outer end piece	19-5167-01
2	Protective jacket HR 16/10	19-7450-01
3	Inner end piece	19-7846-01
4	Connector 16/10	18-1478-01
	Connector 16/16*	18-1479-01
5	Chromatographic tube HR 16/10	18-3132-01
6	O-ring 11.3 x 2.4 mm, pk/5	19-7584-01
7	O-ring 27.1 x 1.6 mm, pk/5	19-7595-01
8	O-ring 17.86 x 2.62 mm, pk/5	18-1426-01
9	O-ring 12.42 x 1.78 mm, pk/5	18-1427-01
	Preflanged tubing, i.d. 0.5 mm, o.d. 1.8 mm, L 40 cm	18-0421-01
	Union, M6 female/1/16" male (Valco™ compatible, plastic), pk/5	18-3858-01

* The Connector 16/16, Code No. 18-1479-01, and two O-rings, Code No. 18-1426-01, are needed when using the Packing Equipment HR 10 to pack an HR 16/10 column.

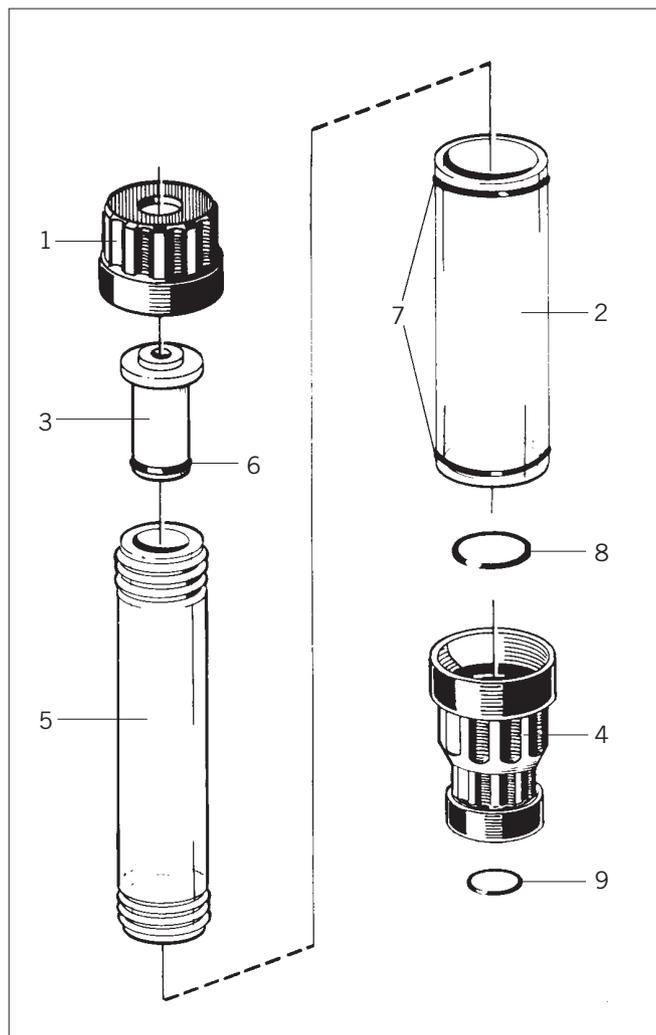


Fig. 2.

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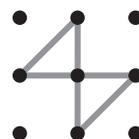
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