

Operating instruction

Dispensing pipe

English

1. Product description

The dispensing pipes are disposable capillaries for a non-contact dosage of liquid media. Different pipe types are available, and all types fit to the PipeJet® dispensing module by the fixation with the appropriate pipe guide set. Two pipe guide sets are assigned to a PipeJet® dispensing module: LV, 'low volume' and HV, 'high volume'.

The dispensing pipe types vary in diameter, length, and coating. Color-coded packings help with the quick selection of the pipe type to set the target volume range.



Dispensing pipe type	Volume range
125-S	2 – 7 nl*
200-S	5 – 18 nl*
200-L	7 – 15 nl*
500-S	20 – 70 nl*
500-L	25 – 70 nl*
500-XL	30 – 65 nl*

* Approx. volume range for DI-water at RT

2. Materials

Dispensing pipe

Component	Material
Capillary	Polyimide (PI)
Connector (pipe 500)	Polypropylene (PP)
Connector (pipe 200, 125)	Polyether ether ketone (PEEK)

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Packaging

Component	Material
Box	Polypropylene (PP)
Pipe tray	Polylactide (PLA)

3. Warnings

!	Material damage caused by incorrect handling and use. Do not twist the pipes or change positioning after attachment to the pipe guide. The dispensing performance can change after long use.
!	Do not reuse after dismantling. The pipes are single-use products. The materials are not qualified for multiple mounting.
!	Prevent nozzle orifice damage. Only remove the pipes from packaging in the 'free space' area, as described in the unpack section.

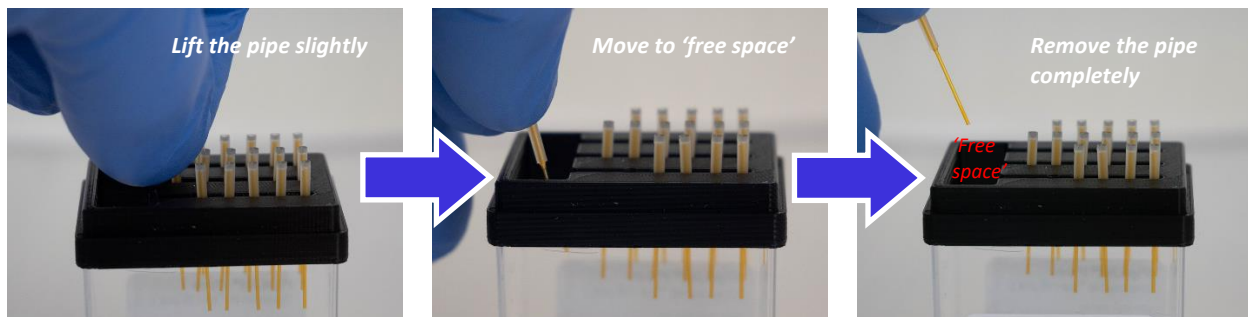
4. Intended use

The dispensing pipe is a component of the PipeJet® technology. Do not use with other technologies unless noted otherwise. Depending on the configuration and pipe type, the dispensing or the aspiration and dispensing is possible for a non-contact droplet delivery or the transfer of liquid samples.

5. Unpack

Lift the pipe slightly and guide it along the rail until you have reached the 'free space' area. Take the pipe completely out of the packaging.

- Prevent any damage of the nozzle orifice by touching the packaging wall
- Wear gloves when removing the pipe



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6. Operation

Install the dispensing pipe as described in the installation guide for a PipeJet® Nanodispenser. According to the selected pipe type, the addressable droplet volume range can be set. The minimum and maximum volumes may vary due to fabrication tolerances, variation in clamping and liquid media.

- Ensure correct guidance of the pipe before fixation
- Only use the provided torque handle for tightening the fixing screws of the pipe guide
- Do not install the same pipe multiple times after tightening the fixing screws of the pipe guide

7. Storage

Store the dispensing pipes in original packaging at room temperature. Do not expose to sunlight for an extended period. Avoid condensation conditions.

8. Disposal

Dispose the product according to applicable regulations. Take special care for the appropriate disposal of chemical waste that might have been produced by working with the device. Please contact the person responsible for waste treatment in your organization to allow for a safe disposal process.

9. Ordering information

Order /reference number	Description
PJ-12511	Dispensing pipe 125-S-C Coated, 23mm (total length), 2mm (free pipe length), 1 box = 16 pipes
PJ-20010	Dispensing pipe 200-S 23mm (total length), 2mm (free pipe length), 1 box = 16 pipes
PJ-20011	Dispensing pipe 200-S-C Coated, 23mm (total length), 2mm (free pipe length), 1 box = 16 pipes
PJ-20050	Dispensing pipe 200-L 28mm (total length), 7mm (free pipe length), 1 box = 16 pipes
PJ-20051	Dispensing pipe 200-L-C Coated, 28mm (total length), 7mm (free pipe length), 1 box = 16 pipes
PJ-50070	Dispensing pipe 500-S 23mm (total length), 2mm (free pipe length), 1 box = 16 pipes
PJ-50071	Dispensing pipe 500-S-C Coated, 23mm (total length), 2mm (free pipe length), 1 box = 16 pipes

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PJ-50080	Dispensing pipe 500-L 28mm (total length), 7mm (free pipe length), 1 box = 16 pipes
PJ-50081	Dispensing pipe 500-L-C Coated, 28mm (total length), 7mm (free pipe length), 1 box = 16 pipes
PJ-50090	Dispensing pipe 500-XL 34mm (total length), 12mm (free pipe length), 1 box = 16 pipes
PJ-50091	Dispensing pipe 500-XL-C Coated, 34mm (total length), 12mm (free pipe length), 1 box = 16 pipes

Specifications are subject to change without notice.

