

Disposable Smoothbore Ventilator Circuit

Smoothbore Breathing Circuit with watertrap is a single-use airway management solution. It is made of medical-grade PVC¹ and EVA with excellent chemical stability. This tubing connects the patient's airway to the ventilator and allows for controlled distribution of gas components through the respiratory circuit, delivering gas to the patient, removing exhaled gas, and controlling the temperature and humidity of inhaled gas.

- **Low Resistance to flow**

Adult Tube at a flow rate of 30L/min (children's at 15L/min, infant at 2.5L/min), the pressure difference between the two ends of the tube (patient interface and machine interface) is less than 0.2kPa.

- **Low Compliance**

Tube compliance is less than 10 ML/kPa per meter at 6 KPa air pressure.

- **Excellent air-tightness and bending resistance²**

Tested under water immersion and held for 10S with 6KPa air pressure applied, the leakage rate is less than 10ML/min.

- **Customizable tube, variety of components are optional**

Tube lengths as well as tubing preferences can be customized (e.g., anti-static and anti-deformation). Various connectors, masks, breathing bags, extension tubes, filters, etc. are available.



High-end medical consumables pro manufacturer

Reliable and robust tubing connection³

The watertrap is designed to prevent backflow of liquid.

High-quality material with anti-deformation, low adsorption and low permeability, can be customized for anti-static effect.

Patient-side connectors are ISO-compliant and can be easily fitted to ETT tubing, laryngeal masks, catheter stents, face masks, or elbows.

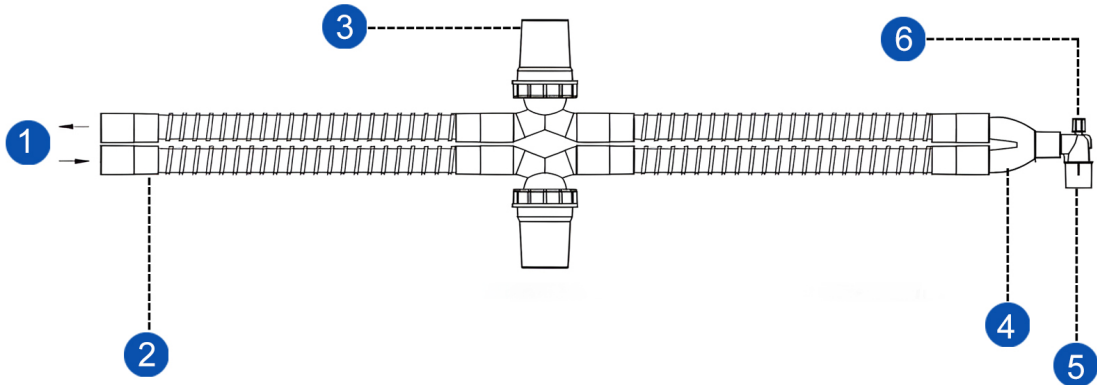
The joints are integrally injection molded for airtightness and can be sterilized using autoclave (up to 136°C) and ethylene oxide gas.

1 : PE, PP or silicone materials are available.

2 : The tube is suspended from a 2.5mm diameter metal post with 1/2 turn in contact and the pressure at rated flow does not exceed 150% of the measured value of the straightened tube.

3 : The connector does not separate from the tube under a pulling force of 45N+2N.

Disposable Smoothbore Ventilator Circuit Specification



- 1) Machine Exhale and Inhale
- 2) Straight Connector
- 3) Watertrap
- 4) Y Conncetor
- 5) Elbow Connector
- 6) Luer Cap

| Type | ID | Length | Optionally Available |
|-----------|------|----------|--|
| Adult | 22mm | 1.2~2.4m | Oxygen Mask /Filter /Extra Limb /Reservoir Bag /Nebulizer/ Gas Sampling Line |
| Pediatruc | 15mm | 0.9~1.8m | Oxygen Mask /Filter /Extra Limb /Reservoir Bag /Nebulizer/ Gas Sampling Line |
| Neonate | 10mm | 0.6~1.5m | Oxygen Mask /Filter /Extra Limb /Reservoir Bag /Nebulizer/ Gas Sampling Line |

Color: Warm/Cool white