Breathing Circuit can be best described as the lifeline between the patient and the mechanical ventilator. It consists of various combinations of interfaces, enabling the delivery of air to patients in a consistent and highly regulated manner.

We understand that every patient is unique and that selection of circuit depends on the medical requirements. Hence we provide a wide range of circuit combinations, accessories an components to equip you with the right tool to deliver the best outcome for your patients.

“Innovalue” products set the benchmark in the respiratory care industry. This can only be made possible by dedicating resources extensively in research and development in the field of mechanical ventilation. Our range of products is developed by working in close collaboration with clinical physicians, respiratory therapists, engineers and expert designers. These relationships allow us to visualize the problems faced in the healthcare settings and enable us to devise a solution. We constantly aim for win-win situations for both clinicians and patients.

Breathing Circuit:
- Aplus™, Sil.Plus™, Slim Cuff Durable Dual Limb Breathing Circuit
- Hytrel Dual Limb Breathing Circuit
- Disposable Dual Limb Breathing Circuit
- Humi.AIDE™ Heated Wire Circuit
- Durable and Disposable Single Limb Breathing Circuit
- EMS Breathing Circuit
- IPPB Circuit

Support Items and Accessories:
- Respiratory Humidifier and Humidification Chamber
- Aerosol Valved Tee, MDI Spacer, Adaptors and Nebulizers
- HME, HMEF and Filters
- Face Masks and Catheter Mount
- Water Trap, Test Lungs and Breathing Bags
- Circuit Hangers, Tube Clips and Fixture
- Connectors, Manifold, Airways and More!
Your Partner for Better Care
Airway Management

| Features          | Benefits                                      |
|-------------------|-----------------------------------------------|
| Inflatable Balloon Cuff | Provides a good seal against air leak and proper positioning to minimize airway damage |
| Anatomical curve  | Specially designed for fast and easy insertion |
| Clear Indication  | Accurate graduated markings for reference to ascertain insertion depth |
| Biocompatible Material | Materials meet international biocompatibility standard |

**Endotracheal Tube**

| Size   | ID/OD | Length |
|--------|-------|--------|
| 3578   | 3.0mmI/4.2mmOD | 160mm  |
| 3579   | 3.5mmI/4.9mmOD | 180mm  |
| 3580   | 4.0mmI/5.5mmOD | 200mm  |
| 3581   | 4.5mmI/6.2mmOD | 220mm  |
| 3582   | 5.0mmI/6.9mmOD | 240mm  |
| 3583   | 5.5mmI/7.5mmOD | 270mm  |
| 3584   | 6.0mmI/8.2mmOD | 270mm  |
| 3585   | 6.5mmI/8.7mmOD | 290mm  |
| 3586   | 7.0mmI/9.3mmOD | 300mm  |
| 3587   | 7.5mmI/10.0mmOD | 310mm |
| 3588   | 8.0mmI/10.7mmOD | 320mm |
| 3589   | 8.5mmI/11.3mmOD | 320mm |
| 3590   | 9.0mmI/12.0mmOD | 320mm |
| 3591   | 9.5mmI/12.7mmOD | 320mm |
| 3592   | 10.0mmI/13.3mmOD | 320mm |

**Berman Airways**

Shaped to follow the anatomical curves of the tongue and oropharyngeal airway. Dual-sided channels with holes to minimize the risk of airway occlusion. The side channel of the Berman airway permits the insertion of suction tube.

| Size   | ID/OD | Length |
|--------|-------|--------|
| 6313   | Berman Airway 30mm |       |
| 6314   | Berman Airway 40mm |       |
| 6315   | Berman Airway 50mm |       |
| 6316   | Berman Airway 60mm |       |
| 6317   | Berman Airway 70mm |       |
| 6318   | Berman Airway 80mm |       |
| 6319   | Berman Airway 90mm |       |
| 6320   | Berman Airway 100mm |   |
| 6321   | Berman Airway 110mm |   |
| 6322   | Berman Airway 120mm |   |

**Guedel Airways**

Guedel airways are used to maintain a patent airway by preventing the tongue from resting against the posterior pharyngeal wall and obstructing the airway.

| Size   | ID/OD | Length |
|--------|-------|--------|
| 6304   | Guedel Airway 40mm, Pink |       |
| 6305   | Guedel Airway 50mm, Blue |       |
| 6306   | Guedel Airway 60mm, Black |      |
| 6307   | Guedel Airway 70mm, White |      |
| 6308   | Guedel Airway 80mm, Green |       |
| 6309   | Guedel Airway 90mm, Yellow |   |
| 6310   | Guedel Airway 100mm, Red |   |
| 6311   | Guedel Airway 110mm, Orange | |
| 6312   | Guedel Airway 120mm, Purple | |
# Aplus Durable Breathing Circuit

**Features**

| Easy to connect | Tubing cuff designed for better grip |
| Smoothbore Tubing | Easy to clean and minimal air turbulence in the circuit |
| Hook Ring Design | For hanging of tubes to allow air drying |
| Kink Resistant | Ensures a smooth airflow for patient safety |
| Biocompatible & ISO conformance | Durable material autoclavable at 134°C and functions conform to international standard |

## Adult

| REF  | Elbow | Wye  | Aplus Silicone Tubing, 22F Cuff | Water Trap | Connector |
|------|-------|------|---------------------------------|-------------|-----------|
| 6780 | 22/15 | 22/15, 22M | 7.6F 120cm 60cm x 2 22F 22M | - 2M x 2 | - 2 pcs |
| 6781 | 22/15 | 22/15, 22M | 7.6F 120cm 60cm x 2 22F 22M | - 2M x 2 | - 2 pcs |

## Neonate

| REF  | Neo-Wye | Aplus Silicone Tubing, 10F Cuff | Water Trap | Connector |
|------|---------|---------------------------------|-------------|-----------|
| 6782 | 15F, 10M, Luer | 7.6F 120cm 60cm x 2 10F 10M | - 10M x 2 | - 5 pcs |
| 6783 | 15F, 10M, Luer | 7.6F 120cm 60cm x 2 10F 10M | - 10M x 2 | - 5 pcs |

### Specifications

**Functions:**
- Conform to ISO-5367 for breathing circuit

**Dimensions:**
- 22mm and 15mm conform to ISO-5356-1
- Temperature port: 7.6F
- Pressure port: Luer conform to ISO-594-1
- Tubing: see table

**Water Trap:**
- Adult water trap: 65ml, 22M, PSF
- Neonate water trap: 55ml, 10M, PSF

**Materials:**
- Polysulfone for plastic components, silicone rubber for tubing and cuff, conform to ISO-10993-1
- Sterilization: autoclavable up to 134°C or Codex or pasteurization for more than 50 cycles

**Package:**
- Adult: 1 set/pkg, 10 sets/box
- Neonate: 1 set/pkg, 10 sets/box
Sil. Plus™ Extra-Lite Durable Breathing Circuit

Features | Benefits
---|---
Extra Lite | Lighter than majority of circuits in the market
Slimmer cuff | Tubing cuff designed for easy removal and connection
Smoothbore Tubing | Easy to clean and minimal air turbulence in the circuit
Durable | All parts autoclavable at 134°C
Biocompatible | Materials conform to international standard

### Adult

| REF | Elbow | Wye | Extra-Lite Silicone Tubing, 22F Cuff | Water Trap | Connector |
|-----|-------|-----|-----------------------------------|------------|-----------|
| 6784 | 15F | 15F, 22M, 7.6F | Inhale: 60cm x 2, Exhale: 60cm x 2, Chamber: 60cm, 22M x 2 | 22M x 2 | 2 pcs |

### Neonate

| REF | Neo-Wye | Extra-Lite Silicone Tubing, 10F Cuff | Water Trap | Connector |
|-----|---------|-----------------------------------|------------|-----------|
| 6785 | 15F, 10M, 4.3F | Inhale: 60cm x 2, Exhale: 60cm x 2, Chamber: 60cm, 17F (22F cuff) | 10M x 2 | 5 pcs |

### Specifications

**Functions:**
- Conform to ISO-5367 for breathing circuit

**Dimensions:**
- 22mm and 15mm conform to ISO-5356-1
- Temperature port: 7.6F
- Pressure port: 4.3F conform to ISO-594-1
- Tubing: see table

**Water Trap: (Lite)**
- Adult water trap: 55ml, 22M, PSF
- Neonate water trap: 55ml, 10M, PSF

**Materials:**
- Polysulfone for plastic components, silicone rubber for tubing and cuff, conform to ISO-10993-1
- Sterilization: autoclavable up to 134°C or Cidex or pasteurization for more than 50 cycles

**Optional Accessories:**
- For more details, please refer to page 20

**Package:**
- Adult: 1 set/pkg, 6 sets/box
- Neonate: 1 set/pkg, 6 sets/box
### Slim-Cuff Durable Breathing Circuit

**Features**

| Feature                          | Benefit                                                                 |
|----------------------------------|-------------------------------------------------------------------------|
| Slim Cuff                        | Slimmer cuff for lighter weight                                          |
| Smoothbore Tubing                | Easy to clean and minimal air turbulence in the circuit                 |
| Kink Resistant                   | Ensures a smooth airflow for patient safety                              |
| Durable                          | All parts autoclavable at 134°C                                          |
| Biocompatible & ISO conformance  | Materials and functions conform to international standard               |

**Functions:**
- Conform to ISO-5367 for breathing circuit

**Dimensions:**
- 22mm and 15mm conform to ISO-5356-1
- Temperature port: 7.6F
- Pressure port: 4.3F conform to ISO-594-1
- Tubing: see table

**Water Trap:**
- Adult water trap: 65ml, 22M, PSF.
- Pediatric water trap: 65ml, 15M, PSF

---

**Adult**

| REF   | Elbow | Wye      | Slim-Cuff Silicone Tubing, 22F Cuff | Water Trap | Connector |
|-------|-------|----------|-------------------------------------|------------|-----------|
| 6788  | 22/15 | 22/15, 22M, 7.6F | 60cm x 2 | 60cm x 2 | 30cm | 22M x 2 | 2 pcs |

**Pediatric**

| REF   | Elbow | Wye      | Slim-Cuff Silicone Tubing, 15F Cuff | Water Trap | Connector |
|-------|-------|----------|-------------------------------------|------------|-----------|
| 6789  | 22/15 | 15M, 15F, 7.6F | 60cm x 2 | 60cm x 2 | 30cm, (22F cuff) | 15M x 2 | 4 pcs |

**Specifications**

**Materials:**
- Polysulfone for plastic components, silicone rubber for tubing and cuff, conform to ISO-10993-1
- Sterilization: autoclavable up to 134°C or Cidex or pasteurization for more than 50 cycles

**Optional Accessories:**
- For more details, please refer to page 20

**Package:**
- Adult: 1 set/pkg, 6 sets/box
- Neonate: 1 set/pkg, 6 sets/box
# Hytrel Breathing Circuit

| Features                  | Benefits                                      |
|---------------------------|-----------------------------------------------|
| Easy to connect           | Tubing cuff designed for better grip         |
| Smoothbore Tubing         | Easy to clean and minimal air turbulence in the circuit |
| Kink Resistant            | Ensures a smooth airflow for patient safety  |
| Semi-durable material     | All parts autoclavable at 121°C for 30 cycles |
| Biocompatible & ISO conformance | Materials and functions conform to international standard |

## Adult

| REF  | Elbow | Wye     | Hytrel Tubing, 22F Cuff | Water Trap | Connector |
|------|-------|---------|-------------------------|------------|-----------|
| 6813 | 22/15 | 22/15, 22M, 7.6F | 120 cm, 120 cm, 30 cm | -          | 22M x 2, 2 pcs |
| 6814 |       |         | 60 cm x 2, 60 cm x 2, 30 cm | 22F        | 22M x 2, 2 pcs |

## Pediatric

| REF  | Elbow | 7.6 Wye | Hytrel Tubing, 15F Cuff | Water Trap | Connector |
|------|-------|---------|-------------------------|------------|-----------|
| 6815 | 22/15 | 15F, 15M | 120 cm, 120 cm, 30 cm | -          | 15M x 2, 4 pcs |
| 6816 |       | 15F, 10M | 60 cm x 2, 60 cm x 2, 30 cm | 15F, 22F, 22F | 15M x 2, 4 pcs |

Smoothbore Tubing and Kink Resistant ensure a smooth airflow for safer patient use.
Hytrel Breathing Circuit

**Features**

| Functions                      | Benefits                                          |
|-------------------------------|--------------------------------------------------|
| Conform to ISO-5367 for breathing circuit | Tubing cuff designed for better grip            |
| Sterilization: autoclavable up to 121°C for 30 cycles | Easy to clean and minimal air turbulence in the circuit |
| Kink Resistant                | Ensures a smooth airflow for patient safety      |
| Semi-durable material         | All parts autoclavable at 121°C for 30 cycles    |
| Biocompatible & ISO conformance | Materials and functions conform to international standard |

**Specifications**

**Functions:**
- Conform to ISO-5367 for breathing circuit
- Sterilization: autoclavable up to 121°C for 30 cycles

**Dimensions:**
- 22mm and 15mm conform to ISO-5356-1
- Temperature port: 7.6F
- Pressure port: Luer conform to ISO-594-1
- Luer port conform to ISO-594-1

**Water Trap:**
- Adult water trap: 55ml, 22M, Polycarbonate
- Pediatric water trap: 55ml,15M, Polycarbonate
- Neonate water trap: 55ml, 10M, Polycarbonate

**Materials:**
- Polycarbonate for plastic components, silicone rubber for tubing and cuff, conform to ISO-10993-1

**Optional Accessories (start from page 20):**
- LDS catheter mount
- HME and HMEF
- NIV face mask
- Durable humidification chamber

**Package:**
- Adult and Pediatric: 1 set/pkg, 10 sets/box
- Neonate: 1 set/pkg, 10 sets/box

---

**Neonate**

![Image of Hytrel Breathing Circuit](image.png)
Disposable Corrugated Breathing Circuit

**Features** | **Benefits**
--- | ---
Lightweight | Lighter and more economical
Ready to use | Pre-attached water trap to reduce possible leaks
Kink Resistant | Ensures a smooth airflow for patient safety
Single Patient Use | Up to 21 days to minimize the risk of cross-infection
Biocompatible & ISO conformance | Materials and functions conform to international standard

---

**Adult**

![Corrugated EVA Corrugate Tubing, 22F Cuff](image)

| REF | Elbow | Wye | EVA Corrugate Tubing, 22F Cuff | Water Trap | Connector |
|-----|-------|-----|-----------------------------|------------|-----------|
| 6702 | 22/15 | 22/15, 22M, 7.6F | 60cm x 2, 60cm x 2, 30cm | 22M, 2 pcs | - |

**Pediatric**

![Corrugated EVA Corrugate Tubing, 22F Cuff](image)

| REF | Elbow | Wye | EVA Corrugate Tubing, 22F Cuff | Water Trap | Connector |
|-----|-------|-----|-----------------------------|------------|-----------|
| 6703 | 22/15 | 22/15, 15M, 7.6F | 60cm x 2, 60cm x 2, 30cm | 15M, 2 pcs | - |
Disposable Corrugated Breathing Circuit

| Specifications |
|----------------|
| **Functions:** |
| ● Conform to ISO-5367 for breathing circuit |
| **Dimensions:** |
| ● 22mm and 15mm conform to ISO-5356-1 |
| ● Temperature port: 7.6F |
| ● Pressure port: 4.3F conform to ISO-594-1 |
| ● Tubing: see table |
| **Water Trap:** |
| ● Adult water trap: 55ml, 22M |
| ● Pediatric water trap: 55ml, 15M |
| ● Neonate water trap: 25ml, 10M |
| **Materials:** |
| ● Single patient use, up to 21 days, conform to ISO-10993-1 |

| Optional Accessories (start from page 20): |
| ● LDS catheter mount |
| ● HME and HMEF |
| ● NIV face mask |
| ● Disposable humidification chamber (manual or auto-feeding) |

| Package: |
| ● Adult: 1 set/pkg, 15 sets/box |
| ● Pediatric: 1 set/pkg, 15 sets/box |
| ● Neonate: 1 set/pkg, 15 sets/box |

### Neonate

- **REF**: 6704
- **Elbow & Wye (in 1)**: 15F, 10M, 7.6F, 4.3F
- **EVA Tubing, 10F Cuff**: 30cm+30cm +60cm
- **Inhale**: 60cm x 2
- **Exhale**: 30cm, (22F cuff)
- **Chamber**: 10M, 2 pcs
- **Water Trap**: 3 pcs
- **Connector**: 3 pcs
Humi.AIDE™ Dual Heated Wire Circuit (Adult)

**Features**

| Features                      | Benefits                                                                 |
|-------------------------------|---------------------------------------------------------------------------|
| Spiral Heated Wire and Dual Heated Limb | Maintain and provide humidified air to improve comfort and reduce dry air-induced problems. Designed to minimize condensation |
| Cap and Tube Organizer        | Dust-prevention cap and tube organizer for better organization of tubing |
| Auto-feeding Chamber          | High efficiency chamber for continuous use                                 |
| Single Patient Use            | Up to 7 days to minimize the risk of cross-infection                      |
| Biocompatible & ISO conformance | Materials and functions conform to international standard                 |

**Specifications**

**Functions:**
- Resistance, compliance and leakage conform to ISO-5367 for breathing circuit
- Humidity output of circuit and chamber conforms to ISO-8185

**Dimensions:**
- Patient port: 22mm and 15mm conform to ISO-5356-1
- Machine cuff: 22mm ID
- Temperature port: 7.9F
- Tubing: see table

**Heated Wire:**
- Inhale: 14.7 Ohms, connector: 1.0mm OD (twin)
- Exhale: 13.3 Ohms, connector: 1.0mm OD (twin)

**Materials:**
- Single patient use, up to 7 days, conform to ISO-10993-1

**Humidification Chamber:**
- Adult auto-feeding chamber: 22M ports, 130ml

**Optional Accessories (start from page 20):**
- LDS catheter mount
- NIV face mask
- Disposable manual-feeding chamber

**Package:**
- Adult: 1 set/pkg, 10 sets/box
Humi.AIDE™ Single Heated Wire Circuit (Adult)

| Features                        | Benefits                                                                 |
|---------------------------------|--------------------------------------------------------------------------|
| Spiral Heated Wire in Inspiratory Limb | Maintain and provide humidified air to improve comfort and reduce dry air-induced problems. Designed to minimize condensation |
| Cap and Tube Organizer          | Dust-prevention cap and tube organizer for better organization of tubing |
| Auto-feeding Chamber            | High efficiency chamber for continuous use                                |
| Single Patient Use              | Up to 7 days to minimize the risk of cross-infection                      |
| Biocompatible & ISO conformance | Materials and functions conform to international standard                 |

### Functions:
- Resistance, compliance and leakage conform to ISO-5367 for breathing circuit
- Humidity output of circuit and chamber conforms to ISO-8185

### Dimensions:
- Patient port: 22mm and 15mm conform to ISO-5356-1
- Machine cuff: 22mm ID
- Temperature port: 7.9F
- Tubing: see table

### Heated Wire:
- Inhale: 14.7 Ohms, connector: 1.0mm OD (twin)

### Materials:
- Single patient use, up to 7 days, conform to ISO-10993-1

### Humidification Chamber:
- Adult auto-feeding chamber: 22M ports, 130ml

### Water Trap:
- Adult water trap (1 pc): 22M, 55ml

### Optional Accessories (start from page 20):
- LDS catheter mount
- NIV face mask
- Disposable manual-feeding humidification chamber

### Package:
- Adult: 1 set/pkg, 10 sets/box

---

**Specifications**

**REF**
- H771
- H772

**Patient Y with Cap**
- Inhale (Heated): 22/15mm
- Exhale (Non-Heated): 140cm
- Chamber: 60cm (Collapsible)
- Water Trap: 1 pc
- Tube Clips & Connector Kit: 1 set
- Chamber: 1 set

**H771**
- 22/15mm: 7.6F
- 22/15mm: 7.9F

**H772**
- Collapsible: 1 pc
- 22M: 22M
- 22F: 22F
- Collapsible: 7.6F

---
Humi.AIDE™ Dual Heated Wire Circuit (Neonate)

Features | Benefits
--- | ---
Spiral Heated Wire and Dual Heated Limb | Maintain and provide humidified air to improve comfort and reduce dry air-induced problems. Designed to minimize condensation
Suction Port, Cap and Tube Organizer | Suction port on patient connector. Tube organizer for better organization of tubing
Neonate Auto-feeding Chamber | High efficiency chamber for continuous use
Single Patient Use | Up to 7 days to minimize the risk of cross-infection
Biocompatible & ISO conformance | Materials and functions conform to international standard

Neonate Specifications

Functions:
- Resistance, compliance and leakage conform to ISO-5367 for breathing circuit
- Humidity output of circuit and chamber conforms to ISO-8185
- Non-phthalate PVC for pressure line

Dimensions:
- Patient port: 22mm and 15mm conform to ISO-5356-1
- Machine cuff: 22mm ID
- Temperature port: 7.9F
- Suction port: 4.0mm
- Tubing: see table

Heated Wire:
- Inhal: 21.5 Ohms, connector: 1.0mm OD (twin)
- Exhale: 17.0 Ohms, connector: 1.0mm OD (twin)

Humidification Chamber:
- Neonate auto-feeding chamber: 22M ports, 130ml

Materials:
- Single patient use, up to 7 days, conform to ISO-10993-1

Optional Accessories (start from page 20):
- LDS catheter mount
- Disposable manual-feeding chamber

Optional Connector Kit for different ventilators:

Package:
- Neonate: 1 set/pkg, 10 sets/box
Humi.AIDE™ Single Heated Wire Circuit (Neonate)

**Features** | **Benefits**
--- | ---
Spiral Heated Wire in Inspiratory Limb | Maintain and provide humidified air to improve comfort and reduce dry air-induced problems. Designed to minimize condensation
Suction Port, Cap and Tube Organizer | Suction port on patient connector. Tube organizer for better organization of tubing
Neonate Auto-feeding Chamber | High efficiency chamber for continuous use
Single Patient Use | Up to 7 days to minimize the risk of cross-infection
Biocompatible & ISO conformance | Materials and functions conform to international standard

### Neoate

**Specifications**

**Functions:**
- Resistance, compliance and leakage conform to ISO-5367 for breathing circuit
- Humidity output of circuit and chamber conforms to ISO-8185
- Materials single patient use, up to 7 days, conform to ISO-10993-1
- Non-phthalate PVC for pressure line

**Dimensions:**
- Patient port: 15mm conform to ISO-5356-1
- Machine cuff: 22mm ID
- Temperature port: 7.9F
- Suction port: 4.0mm
- Tubing: see table

**Heated Wire:**
- Inhale: 21.5 Ohms, connector: 1.0mm OD (twin)

**Humidification Chamber:**
- Neonate auto-feeding chamber: 22M ports, 130ml

**Water Trap:**
- STD (Standard) type: 10M connector, 25ml

**Materials:**
- Single patient use, up to 7 days, conform to ISO-10993-1

**Optional Accessories (start from page 20):**
- LDS catheter mount
- CS (Closed Suction) water trap

**Optional Connector Kit for different ventilators:**

**Package:**
- Neonate: 1 set/pkg, 10 sets/box
## Durable Single Limb Ventilator Circuit

### Features | Benefits
---|---
Compact & Lightweight | Suitable for homecare, ambulatory and emergency transport settings
Manifold with Highly Efficient Valve | Quieter and prompt response
Smoothbore Tubing | Easy to clean and minimal air turbulence in the circuit
Catheter Mount | With swivel patient connector
Durable | All parts autoclavable at 134°C
Biocompatible & ISO conformance | Materials and functions conform to international standard

### Adult

#### Suction Port
- 15F

#### Control Line
- 7.6F
- 22F

#### Pressure Line
- 22F

#### Tubing Specifications:
- Main limb (inhale and exhale): Aplus Silicone tube; smoothbore
- Control Line: 4F. Pressure Line: 5F(green)
- Catheter Mount suction port includes EVA cap

### Functions:
- Conform to ISO-5367 for breathing circuit

### Dimensions:
- 22mm and 15mm conform to ISO-5356-1
- Catheter mount patient port: 15F swivel;
  - Manifold port: 15M swivel
- Pressure port: 4B

### Optional Accessories (start from page 20):
- Auto-feeding chamber and chamber limb
- HMEF and HMEF
- HEPA Filter
- Machine Water trap

### Package:
- 1 set/pkg, 10 sets/box

### Materials:
- Polysulfone for all connector and housing
- All components conform to ISO-10993-1 for biocompatibility requirements

### Specifications

| REF | Catheter Mount | Manifold | Single Limb Durable Circuit (Smoothbore) |
|-----|----------------|----------|-----------------------------------------|
| 7105| L15F,13cm | 3-Way 22/15, 22/15 | Main Limb: 120cm, 22F cuff; Control Line: 150cm; Pressure Line: 150cm |
Durable J Circuit

**Features** | **Benefits**
---|---
Lightweight Parts | Ultra lightweight for improved comfort
Manifold on Expiratory End | Manifold with highly efficient valve for quieter and prompt response
Smoothbore Tubing | Easy to clean and minimal air turbulence in the circuit
Durable | All parts autoclavable at 134°C
Biocompatible & ISO conformance | Materials and functions conform to international standard

### Adult

| REF | Elbow | Wye 7.6 & 4B | J Type Durable Breathing Circuit | Manifold |
|-----|-------|-------------|----------------------------------|---------|
| 6787 | 15F   | 15F, 22M x 2 | Inhal: 120cm, Exhale: 45cm, Control Line: 150cm, Pressure Line: 150cm | 2 Way 22/15, 22/15 |

**Specifications**

**Functions:**
- Conform to ISO-5367 for breathing circuit

**Dimensions:**
- Elbow: Patient port - 22/15mm and 15mm OD to wye connector
- Wye: 15F for patient interface, 22M for inhale and exhale tubing, 4B elbow connector for pressure sensing
- 22 and 15mm conform to ISO-5356-1

**Tubing Specifications:**
- Inhale limb: 22mm ID tube with 22F machine cuff
- Exhale limb: Tube with 2-way manifold pre-attached
- Control Line: 4F. Pressure Line: 5F (green)
- Other tube lengths and types are also available upon request

**Materials:**
- Polysulfone for all connector and housing
- Silicone for inhale, exhale tubing, drive line and gas line requirements
- All components conform to ISO-10993-1 for biocompatibility requirements

**Optional Accessories (start from page 20):**
- Flex tube and catheter mount
- Auto-feeding chamber and chamber limb
- HMEF and HMEF
- HEPA Filter
- Water trap
- Connectors for different ventilators and connectors
- Connector with 7.6F temperature port

**Package:**
- 1 set/pkg, 10 sets/box
Disposable Single Limb Ventilator Circuit

### Features

| Feature                                      | Benefit                                               |
|----------------------------------------------|-------------------------------------------------------|
| Economical, Compact & Lightweight            | Economical option for homecare, ambulatory and emergency transport settings |
| Manifold with Highly Efficient Valve         | Quieter and prompt response                           |
| Catheter Mount                               | With swivel patient connector                         |
| Single Patient Use                           | Eliminates the risk of cross-infection. Can be used up to 21 days |
| Biocompatible & ISO conformance              | Materials and functions conform to international standard |

### Functions:
- Conform to ISO-5367 for breathing circuit
- Materials: polysulfone for plastic components, silicone rubber for tubing and cuff, conform to ISO-10993-1
- Polypropylene for all connector and housing
- All components conform to ISO-10993-1 for biocompatibility requirements

### Dimensions:
- 22mm and 15mm conform to ISO-5356-1
- Catheter mount patient port: 15F swivel; Manifold port: 15M swivel
- Pressure port: 4B

### Optional Accessories (start from page 20):
- Auto-feeding chamber and chamber limb
- HMEF and HMEF
- HEPA Filter
- Machine water trap
- Connectors for different ventilators

### Package:
- Adult Corrugated: 1 set/pkg, 15 sets/box
- Adult Collapsible: 1 set/pkg, 20 sets/box

### Specifications

**Control Line**
- 6M/4F

**Pressure Line**
- 6M/4F

**Main Limb**
- Collapsible 42cm (approx.)-150cm, 22F cuff
- Corrugated 120cm, 22F cuff
- 150cm

**Cuff**
- 22F

**Catheter Mount**
- L15F, 13cm
- 15F swivel
- 15M Cuff

**Manifold**
- 3Way
- 22/15, 22/15
**Disposable J Circuit**

**Features** | **Benefits**
---|---
Manifold on Expiratory End | Manifold with highly efficient valve for quieter and prompt response
Economical, Compact & Lightweight | Economical option for homecare, ambulatory and emergency transport settings
Single Patient Use | Eliminates the risk of cross-infection. Can be used up to 21 days
Biocompatible & ISO conformance | Materials and functions conform to international standard

### Adult

**Functions:**
- Conform to ISO-5367 for breathing circuit

**Dimensions:**
- Elbow: Patient port - 15mm ID and 15mm OD to wye connector
- Wye: 15F for patient interface, 22M for inhale and exhale tubing, 4B elbow connector for pressure sensing
- 22 and 15mm conform to ISO-5356-1

**Tubing Specifications:**
- Inhale limb: 22mm ID tube with 22F machine cuff
- Exhale limb: Tube with 2-way manifold pre-attached
- Control Line: 6M/4F. Pressure Line: 6M/4F
- Other tube lengths and types (eg. collapsible; smoothbore) are also available upon request

**Materials:**
- Polypropylene for all connector and housing
- EVA for inhale and exhale tubing
- PVC for drive and gas line
- All components conform to ISO-10993-1 for biocompatibility requirements

**Optional Accessories (start from page 20):**
- Flex tube and catheter mount
- Auto-feeding Chamber and Chamber Limb
- HMEF and HMEF
- HEPA Filter
- Water trap
- Connectors for different ventilators
- Connector with temperature port

**Package:**
- 1 set/pkg, 10 sets/box

---

**Specifications**

| REF | Elbow | Wye | J Type Disposable Circuit | Manifold |
|-----|-------|-----|--------------------------|----------|
|     | 22/15 | 15F, 22Mx2 | 120cm, 22F cuff | 2 Way 22/15, 22/15 |
|     |       |     | 45cm, 22F cuff |          |
|     |       |     | 150cm |          |
|     |       |     | 150cm |          |

---

**Control Line**

**Pressure Line**

**Corrugated**
Emergency (EMS) Breathing Circuit

| Features                        | Benefits                                      |
|---------------------------------|-----------------------------------------------|
| Economical, Compact & Lightweight | Economical option for homecare, ambulatory and emergency transport settings |
| High Efficiency NRV Valve       | Quick response rate with low inspiratory and expiratory resistance |
| Multi-purpose 30M Port          | For connection of PEEP valve, bacterial/viral filter and exhaled air collection |
| Single Patient Use              | Eliminates the risk of cross-infection. Can be used up to 21 days |
| Biocompatible & ISO conformance | Materials and functions conform to international standard |

EMS Breathing Circuit

![EMS Breathing Circuit](image)

**Functions:**
- Conform to ISO-5367 for breathing circuit
- PEEP Valve: 5-20cmH₂O, adjustable
- 22mm and 15mm conform to ISO-5356-1

**Specifications**

**Materials:**
- EVA for collapsible tubing
- Polycarbonate, stainless steel and silicone for NRV and PEEP valve
- All components conform to ISO-10993-1 for biocompatibility requirements

**Optional Accessories (start from page 20):**
- Face Masks of other sizes and types
- PEEP valves with fixed or adjustable ranges
- Bacteria and/or viral filter

**Package:**
- 1 set/pkg, 20 sets/box

| REF | Non-Rebreathing Valve | Disposable Collapsible Tubing 22F Cuff | PEEP Valve | Indigo™ Face Mask |
|-----|-----------------------|----------------------------------------|------------|------------------|
| VE31| ●                     | 42cm (approx) - 150cm                  | ●          | Size No.5        |
| VE21| ●                     | 42cm (approx) - 150cm                  | ●          |                  |
| VE11| ●                     | 42cm (approx) - 150cm                  | ●          |                  |

**Dimensions:**
- 22mm and 15mm conform to ISO-5356-1
- 30M on NRV for attachment of PEEP valve

**Collapsible 22F**
IPPB Circuit

Features

- Economical, Compact & Lightweight
- Manifold with Highly Efficient Valve
- Neb-1 Nebulizer for aerosol delivery
- Single Patient Use
- Biocompatible & ISO conformance

Benefits

- Ideal for most common IPPB treatment
- Quieter and prompt response
- Nebulizer delivers aerosol particle size ranging from 1 to 5 MMAD
- Eliminates the risk of cross-infection. Can be used up to 21 days
- Materials and functions conform to international standard

Disposable Neb-1 IPPB Circuit

- Nebulizer: capacity 30ml; deadspace 1.5ml; particle size ranges from 0.5 to 5 MMAD. Delivers 0.35ml/minute at 8LPM
- Dimensions: 22mm and 15mm conform to ISO-5356-1
- Nebulizer: 18M outlet and 6M inlet
- Bird Connector: 4.3M

Specifications

- Main limb: Disposable corrugated tubing with 22F cuff
- Control Line: 200cm

Materials:

- EVA for corrugated tubing
- PE, PP and silicone for mouthpiece, nebulizer, manifold and connector
- PVC for control line
- All materials conform to ISO-10993-1 for biocompatibility requirements

Optional Accessories (start from page 20):

- Face Masks

Package:

- 1 set/pkg, 15 sets/box
Humi.AIDE™ 7 Respiratory Humidifier

- **Humi.AIDE™ Humidification Chamber**
  - Advanced monitoring function able to display both temperature and relative humidity figures enhances clinical control.
  - IPPV, NPPV, and manual temperature settings to provide flexibility.
  - Unique tilting (20°) and overheat protector for patient side (>43°C) and heater plate side (>115°C).
  - Smart alarm system indicates accurate locations of circuit system abnormalities.
  - Each unit weights approx. 1.3kg which is much lighter than most of the competitors in the market.

HD71 Humi.AIDE 7 Humidifier 115V with Probe, 1set/box
HD72 Humi.AIDE 7 Humidifier 230V with Probe, 1set/box

- **Temperature & Humidity Probe**
  - 51120 Temperature-Humidity Probe
  - 51117 Temperature-Humidity Probe Head

- **Adaptor (for Disposable Circuit)**
  - HD7-52105 Oval Type
Humi.AIDE™ Humidification Devices

Humi.AIDE™ 5D Respiratory Humidifier
- Lightweight, compact and easy to use; ideal for home care and aerosol therapy
- Temperature display to monitor the temperature of the patient side or heater.
- Humi.AIDE 5D comes with temperature display to monitor the temperature of the patient side or heater and enables precision temperature adjustment. Double overheat protection to ensure patient's safety.
- Double overheat protection mechanism to ensure patient safety.
- Lightweight, compact and easy to use.
- Indicator to show the status of the humidifier.
- A temperature display to monitor the temperature of the patient side or heater.
- ISO mounting system to secure on ISO clamps or cradle.

HD51 HD5 Humidifier, 120V
HD52 HD5 Humidifier, 240V
HD5-11 Disposable Temperature Probe, 1.6m
HD5-12 Durable Temperature Probe, 1.6m

Humi.AIDE™ 5 Respiratory Humidifier
- Lightweight, compact and easy to use; ideal for home care and aerosol therapy.
- Double overheat protection mechanism to ensure patient safety.
- Indicator to show the status of the humidifier.
- ISO mounting system to secure on ISO clamps or cradle.

HA51 HA5 Humidifier, 120V
HA52 HA5 Humidifier, 240V

Humi.AIDE™ Humidification Chamber
- Single patient use humidification chamber for providing heated and humidified air to patient.
- Highly sensitive auto-feeding mechanism for water level control.
- Lower water level needed and larger heater contact surface to reduce required heating time.
- Optimal guided flow circulation within the chamber.
- 360 degree viewable maximum water level mark.
- Standard ISO 22M connection ports for connection to breathing circuit.
- Compatible with leading brands of heater humidifier.

HA02 Durable Humidification Chamber
3423 Disposable Auto-Feeding Humidification Chamber (Adult)
3431 Disposable Auto-Feeding Humidification Chamber (Neonate)
3424 Disposable Manual-Feeding Humidification Chamber
Aerosol Delivery for Circuit

**Neb.T Valve (Aerosol Tee Valve)**
- Enables temporary connection of a nebulizer to the breathing circuit without having to disconnect the patient from the ventilation circuit.
- Reduces the risks of infection or pressure drop within the breathing system.
- Low flow resistance.
- Includes a dust proof cap.
- Connector dimension (to Nebulizer): 18F.

**Product List**
- 7VLD31 Neb.T Valve 22F, 18F, 22/15mm
- 7VLD32 Neb.T Valve 22F, 18F, 22M
- 7VLD33 Neb.T Valve 22M, 18F, 22M
- 7VLD21 Neb.T Valve 15F, 18F, 15M
- 7VLD11 Neb.T Valve 10F, 18F, 10M
- NV12 LF Nebulizer Kit with Neb.T Valve 22F, 22M
- NT11 LF Nebulizer Kit with T Adaptor 22F, 22M
- NV32 RF1 Nebulizer Kit with Neb.T Valve 22F, 22M
- NV33 RF1 Nebulizer Kit with Neb.T Valve 22M, 22M
- NT32 RF1 Nebulizer Kit with T Adaptor 22M, 22M
- 4206 Dofin Spacer for Breathing Circuit
- 30341 MDI Adaptor 22F, 22M
- 30342 MDI Adaptor 15F, 15M
- 30351 MDI Elbow Adaptor 22/15mm, 15M
- 30341 MDI Adaptor 22F, 22M
- 30342 MDI Adaptor 15F, 15M
Heat and Moisture Exchanger (HME)

- Provides passive humidification and optional oxygen supply for various applications in the hospitals.
- **HF11** Neonatal (nHME)
- **HF3485** HME Compact
- **39009** HME

- Specific to tHME: tHME features the unique ABR (Adjustable Breathing Resistance) Valve.
- The ABR valve helps reduce work of breathing by allowing patients to adjust breathing resistance.
- Optional flexible oxygen tubing also provides greater comfort and flexibility to patients.
- Compact and lightweight tHME body has low dead space and ensures optimum patient ventilation.
- **HF12** Tracheal (tHME)
- **HF13** Tracheal (tHME) with O₂ tubing
- **HF14** Tracheal (tHME) with ABR valve
- **HF15** Tracheal (tHME) with O₂ tubing & ABR valve

Heat & Moisture Exchanger & Filter (HMEF)

- **HF31** pHMEF
- **HF32** pHMEF with Luer Port
- **39012** HMEF with Luer Port

Paper Media
- **HF31** pHMEF
- **HF32** pHMEF with Luer Port

Foam Media
- **39012** HMEF with Luer Port

Bacteria & Viral Filters
- **7FAD11** 22F/15M, 22/15mm, with Luer Port
- **7FAD12** 22F/15M, 22/15mm
- **7FSD31** 30F, 22/15mm
- **7FSD32** 30F, 30M

Sil. Flex™ Stoma Pad
- **SP01** Stoma Pad Size 1
- **SP02** Stoma Pad Size 2
- **DP00** TC Pad 5mm
- **DP01** TC Pad 10mm
- **SP03** Stoma Pad Size 3

HEPA Filter
- **39014** HEPA Filter 22/15mm, 22/15mm with Luer Port
NIPPV Face Masks

**DeZire™ NIV Mask**
- Lightweight and ergonomic full face mask for NIV.
- Single layer cushion to minimize air leaks.
- The soft cushion also distributes surface area pressure for greater comfort.
- Each mask includes a headgear.

  - ZV20 SL NIV Mask, L
  - ZV21 SL NIV Mask, M
  - ZV22 SL NIV Mask, S
  - ZV25 SL NIV Mask with Port, L
  - ZV26 SL NIV Mask with Port, M
  - ZV27 SL NIV Mask with Port, S

**DeZire™ Lite CPAP Face Mask**
- Lightweight and ergonomic full face mask for NIPPV.
- Dual or single layer cushion to minimize air leaks and distributes surface area pressure for greater comfort.
- Anti-asphyxia valve and swivel adaptor for improved safety and flexibility.
- Ports for CO₂ or pressure monitoring.

  - ZC20 SL Lite CPAP Face Mask, L
  - ZC21 SL Lite CPAP Face Mask, M
  - ZC22 SL Lite CPAP Face Mask, S

**DeZire™ Lite2 Bi-Level CPAP Face Mask**
- Lightweight and ergonomic full face mask for bi-level application.
- Dual or single layer cushion to minimize air leaks and distributes surface area pressure for greater comfort.
- Anti-asphyxia valve and swivel adaptor for improved safety and flexibility.
- Ports for CO₂ or pressure monitoring and port for nasogastric or suction tube.

  - ZB20 SL Lite-2 Bi-level CPAP Face Mask, L
  - ZB21 SL Lite-2 Bi-level CPAP Face Mask, M
  - ZB22 SL Lite-2 Bi-level CPAP Face Mask, S

**DeZire™ ePAP Face Mask**
- Lightweight and ergonomic full face for ePAP.
- Single layer cushion to minimize air leaks and distributes surface area pressure for greater comfort.
- Pressure spring valve setting of 7.5, 10 and 12.5cmH₂O to maintain PEEP.
- Anti-asphyxia valve and swivel adaptor for improved safety and flexibility.
- Ports for CO₂ or pressure monitoring.

  - ZE10 ePAP Face Mask, L
  - ZE11 ePAP Face Mask, M
  - ZE12 ePAP Face Mask, S
**Face Masks**

- **Indigo Face Mask**
  - A single patient use mask designed with patient comfort and practicality in mind.
  - Provides the comparable comfort level of an aircushion mask without having to adjust the air content.
  - Uses Non-PVC Material.
  - Lightweight and transparent body for better patient monitoring.
  - Unique hook ring to secure the face mask in a comfortable position.
  - ISO standard 22F connector.
  
  7MGD01  Indigo Face Mask #1 (Blue)  7MGD04  Indigo Face Mask #4 (White)
  7MGD02  Indigo Face Mask #2 (Orange)  7MGD05  Indigo Face Mask #5 (Yellow)
  7MGD03  Indigo Face Mask #3 (Pink)  7MGD06  Indigo Face Mask #6 (Green)

- **Air-soft Aircushion Mask**
  - A disposable mask for resuscitation, anesthesia and other oxygen or aerosol delivery applications.
  - Built-in check valve for air volume adjustments in the aircushion.
  - Materials conform to ISO biocompatibility standards.
  - Available in 6 sizes and color-coded for size identification.

  5311  Air-Soft Mask #0 w/valve, Infant
  5312  Air-Soft Mask #1 w/valve, Infant Large
  5313  Air-Soft Mask #2 w/valve, Child
  5314  Air-Soft Mask #3 w/valve, Child Large
  5315  Air-Soft Mask #4 w/valve, Adult
  5316  Air-Soft Mask #5 w/valve, Adult Large

- **Endo Mask**
  - Single patient use mask for concurrent endoscopy procedures during anesthesia or mechanical ventilation.
  - Endo port carefully engineered to enable smooth insertion of endoscopy tube into nose or mouth.
  - Flexible and expandable membrane to accommodate different endoscope tube sizes and minimize air leakage.
  - Resealable port cap maintains air seal when endoscope is not used.
  - Soft mask with volume-adjustable aircushion to provide better comfort and seal.
  - Transparent mask body for better visual inspection of patient.
  - 4.0M port for pressure or CO₂ monitoring.

  ED01  Endo Mask (Medium) with Head Strap
  ED02  Endo Mask (Large) with Head Strap
### Durable Catheter Mount

- Flexible and soft silicone tubing.
- Swivel connector design for more flexibility.
- Standard 22/15mm connector for patient interface connection.
- Biocompatible and durable material for multiple reprocessing.

**Additional features:**
- 360 degree swivel elbow connection.
- 15M port with cap or 15M port with suction port for suction or insertion of other functional tubes.
- Ultra lightweight design, convenient and economical for single patient use.

#### Products

| Code   | Description                                                                 |
|--------|-----------------------------------------------------------------------------|
| 77046  | Durable Catheter Mount with PSF Swivel Elbow w/Port, 15M                    |
| 77036  | Durable Catheter Mount with PC Swivel Elbow w/Port, 15M                    |
| 77035  | Durable Catheter Mount with PC Swivel Elbow w/Port, 22F                    |
| 77038  | Durable Catheter Mount with PC Swivel Elbow w/Port, 15M                    |
| 77039  | Durable Catheter Mount with PC Swivel Elbow w/Port, 22F                    |
| 77056  | Durable Catheter Mount with PSF Elbow, 15M                                 |
| 77057  | Durable Catheter Mount with PSF Elbow, 22F                                 |
| 77058  | Durable Catheter Mount with PC Elbow, 15M                                 |
| 77059  | Durable Catheter Mount with PC Elbow, 22F                                 |
| 77016  | Durable Catheter Mount with PC Connector, 15M                              |

- **Double Swivel Elbow with Port**
  - Suction Port
  - 15F
  - 15cm
  - 15M or 22F
  - Autoclavable up to 121°C

- **Fixed Elbow**
  - 15M or 22F
  - 15M or 22F
  - Autoclavable up to 121°C

- **Fixed Straight**
  - 22/15mm
  - 14cm
  - 15M
  - Autoclavable up to 121°C
LDS Catheter Mount

- LDS (Low Dead Space) Catheter Mount
  - Expandable tubing with memory for better shaping and positioning to reduce potential risks and improve patient comfort.
  - Swivel connector for greater flexibility.
  - ISO compatible connector for circuit or patient interface.
  - Available in Straight, Swivel Elbow and Swivel Elbow with Port configurations.

- Double Swivel Elbow with Port
  - 7CCD21 LDS1 Catheter Mount, 15M
  - 7CCD22 LDS1 Catheter Mount, 22/15mm
  - 7CCD23 LDS1 Catheter Mount, 22F

- Double Swivel Elbow
  - 7CBD21 LDS2 Catheter Mount, 15M
  - 7CBD22 LDS2 Catheter Mount, 22/15mm
  - 7CBD23 LDS2 Catheter Mount, 22F

- Swivel Straight
  - 7CAD21 LDS3 Catheter Mount, 15M
  - 7CAD22 LDS3 Catheter Mount, 22/15mm
  - 7CAD23 LDS3 Catheter Mount, 22F

- Expandable tubing with memory for better shaping and positioning to reduce potential risks and improve patient comfort.
- Swivel connector for greater flexibility.
- ISO compatible connector for circuit or patient interface.
- Available in Straight, Swivel Elbow and Swivel Elbow with Port configurations.
Disposable Catheter Mount

- Economical single patient use catheter mount.
- Lightweight and exerts less weight on patient.
- Standard 22/15mm connector for patient interface connection.
- Materials conform to ISO-10993-1 biocompatibility requirements.

Additional features:
- 360 degree swivel elbow connection.
- Port for pressure or temperature monitoring.
- 15M port with cap or 15M port with suction port for suction or insertion of other functional tubes.

*Double Swivel Elbow with Port*
- 77127 Swivel Elbow with Suction Port, 15M
- 77131 Swivel Elbow with Suction Port, 22F

*Double Swivel Elbow with Port*
- 77121 Swivel Elbow, 15M
- 77124 Swivel Elbow, 22F

*Fixed Elbow with Port*
- 77145 Elbow with Luer Port, 15M
- 77149 Elbow with Luer Port, 22F

*Fixed Elbow*
- 77139 Elbow, 15M
- 73683 Elbow, 22F

*Fixed Straight*
- 77133 Tube 22/15mm and 15M
Water Trap

- **Venti.Plus™ CS Water Trap**
  - Designed to collect condensation in ventilation circuits.
  - Closed system to minimize contamination and leakages.
  - Standard 10M, 15M, 22M connector for all adult ventilator circuit.
  - Maximum water level: approximately 65ml of liquid.
  - Easy to drain with an ergonomic suction tube.
  - Optional trap holder and mounting system for better organization of equipment.
  - Note: To see the complete specifications of all water traps, please refer to the Water Trap brochure.

- **Extra-Lite Water Trap**

- **Durable Water Trap**

- **RB Durable Water Trap**

- **Disposable Water Trap**

- **Neonatal Water Trap**

- **Water Reservoir Bag**

**Note:** To see the complete specifications of all water traps, please refer to the Water Trap brochure.

**Extra-Lite Water Trap**

- RA01  Extra-Lite Water Trap, 15M
- RA02  Extra-Lite Water Trap, 22M

**Durable Water Trap**

- 7WJP51  CS Water Trap 10M, Y Type
- 7WJP61  CS Water Trap 15M, Y Type
- 7WJP71  CS Water Trap 22M, Y Type
- 7WGP51  CS Water Trap 10M, L Type
- 7WGP71  CS Water Trap 22M, L Type

**RB Durable Water Trap**

- 7WCF71  RB Durable Water Trap

**Disposable Water Trap**

- 70011  22M, Y Type
- 70012  15M, Y Type
- 70019  10M, L Type
- 70020  22M, L Type

**Neonatal Water Trap**

- 7WOP52  10M, L Type
- 7WPP52  10M, Y Type
- 7WOP62  15M, Y Type

**Water Reservoir Bag**

- 70010  T-22M, 600ml
- 70024  Y-22M, 2,000ml
- 70014  T-22M, 2,000ml
- 70023  Y-22M, 3,800ml
- 70013  T-22M, 3,800ml
- 70030  Y-22M, 600ml

**Note:** PC water traps are also available.
Test Lungs & Breathing Bags

Test Lungs
- Calibrated to simulate the physical conditions of adult and pediatric respiratory system.
- Simulate level of resistance and lung compliance and provide consistent accuracy.
- Can be used prior to placing a breathing circuit on a patient to ensure patient safety. Can also be used for demonstration and training.
- ISO 15M connection port.
  - 6011 Venti.Plus™ Precision Test Lung 1 L
  - 6012 Venti.Plus™ Precision Test Lung 0.5 L
  - BL10 Babi.Plus nTest Lung Set

Silicone Breathing Bag
- High-performance silicone breathing bag for multiple reprocessing.
- Features a special cuff design and higher bag compliance.
- Tail-end hook for hanging to air-dry.
- Standard 22F connector.
  - 70099 Silicone Breathing Bag 3L
  - 70098 Silicone Breathing Bag 2L
  - 70097 Silicone Breathing Bag 1L
  - 70096 Silicone Breathing Bag 0.5L

Latex-Free Breathing Bag
- Single-patient use breathing bag.
- Latex-free to mitigate the risk of latex allergy.
- Lower resistance and standard 22F connector with more rigid cuff.
  - 70140 Latex-Free Breathing Bag 3L
  - 70139 Latex-Free Breathing Bag 2L
  - 70138 Latex-Free Breathing Bag 1L
  - 70137 Latex-Free Breathing Bag 0.5L
  - 70142 Latex-Free Breathing Bag 0.25L

Latex Breathing Bag
- Economical single-patient use breathing bag.
- Lower resistance and standard 22F connector with more rigid cuff.
  - 70092 Latex Breathing Bag 3L
  - 70091 Latex Breathing Bag 2L
  - 70090 Latex Breathing Bag 1L
  - 70089 Latex Breathing Bag 0.5L

Autoclavable up to 121°C

Autoclavable up to 134°C

Test Lungs & Breathing Bags
Circuit Hanger & Fixture

**Circuit Hanger**
- Orientation of arm can be freely adjusted to the desirable position.
- Standard ISO slip and mount fits into the holder conforming to ISO-19054 standard.
- Multiple joints for adjusting the angle of the arm. Foldable design reduces storage space.
- Three-in-one tube holder accommodates most tubing conforming to international standard.

**Specific to ERGO & TANGO:**
- Emergency free lifting mechanism design for better safety.
- Drop guard design minimizes the risk of injuries resulting from accidental arm drop.
- One-touch operation makes it easier to adjust the arm without having to exert too much force.

- **EG22** ERGO 2 Circuit Hanger
- **EG23** ERGO 3 Circuit Hanger
- **EG31** TANGO 1 Circuit Hanger
- **EG32** TANGO 2 Circuit Hanger
- **EM11** SOLO Circuit Hanger with Table Clamp
- **EM12** SOLO Circuit Hanger with Rail Clamp

**Pole, Rail and Table Clamps**
- Keeps essential life-supporting device readily available and organized.
- Ergonomically engineered tri-edge turning knob for less required force to turn.
- Ultra lightweight and sturdy design with one or two holder slip for different device.
- Multi-point contact for better stabilization and grip.
- ISO compliant holder fits any device complying to the same standard.

- **CL01** ERGO™ Single Pole Clamp
- **CL02** ERGO™ Dual Pole Clamp
- **CL03** ERGO™ Table Clamp
- **CL04** ERGO™ Rail Clamp
Support Items for Breathing Circuits

Connectors and Parts
In addition to masks and breathing bags, we also offer a wide variety of support items for ventilator and anesthesia circuit. To see the features and specifications of the items listed below, please refer to their respective product brochures or you can scan the QR code to access the download page.

- **Manifold & Valves**
  2 way, 3 way or 4 way manifold for single limb and IPPB breathing circuit.

- **PEEP & Pressure**
  Highly accurate adjustable and fixed PEEP valves for durable or single-patient use.

- **Wye & Elbow**
  Durable and disposable patient wye and elbow connectors with temperature, pressure and/or suction port. A large selection of connectors designed for adult, pediatric and neonate breathing circuits.

- **Tee Connectors**
  Tee connectors with or without additional port comes in durable or disposable materials. Special valved tee connectors can also be used with nebulizers.

- **Straight Connectors**
  Other than connecting breathing tubes, there are also a wide range of durable and disposable straight connectors for connecting to other devices such as endotracheal tube, flow meter, DPI and more.

- **Water Trap**
  Standard Water Trap and Water Trap for closed system. Available in adult and pediatric or neonate sizes.

- **Gas Sampling Line**
  Different types of tubes for delivering or monitoring airflow or CO₂.

- **GiO Digital Pressure Gauge**
  Portable and compact pressure gauge with real time display and Peak & Hold function. Measures in kPA, cmH₂O and mbar. For more information on the product, please visit www.gio-solutions.com

- **Manual Resuscitator**
  Durable and disposable manual resuscitators and hyperinflation system for artificial ventilation.
  - MG59  **Rescu-6™ Manual Resuscitator**
  - H100  **Venti.Plus™ Hyperinflation Kit, 1L**

- **Hyperinflation**
  Hyperinflation System. Built-in air source line and pressure gauge to monitor patient safety.
  - H100  **Venti.Plus™ Hyperinflation Kit, 1L**

- **Tube Clips**
  Clips to hold breathing circuit and additional tubing in place for better organization and safety.

- **Accessories**

  - **Laryngoscope Durable**
    Stainless steel blade stays cool to touch, minimizing the risk of thermal injury. Fine surface texture. Disposable laryngoscopes and other blades are also available.
    - 6151  **Fiber Optic Laryngoscope Set** (each pouch includes: McIntosh Blade #0, 1, 2, & Middle Handle)**
Users or operators should fully understand the functions of each product and the following symbols before use:

### Common Materials and Sterilization Method

| Material             | Autoclavable | Chemical and Pasteurization | Ethylene Oxide Sterilization |
|----------------------|--------------|-----------------------------|------------------------------|
| PVC                  | No           | No                          | No                           |
| Acrylic              | No           | No                          | No                           |
| K-Resin              | No           | No                          | No                           |
| ABS                  | No           | No                          | Yes                          |
| Polyethylene (PE)    | No           | Yes                         | No                           |
| Polypropylene (PP)   | No           | Yes                         | No                           |
| Hytrel               | Up to 121°C  | Mild Only                   | Yes                          |
| Polycarbonate (PC)   | Up to 121°C  | No                          | Yes                          |
| Polysulfone (PSF)    | Up to 134°C  | Yes                         | Yes                          |
| Silicone Rubber      | Up to 134°C  | Yes                         | Yes                          |

*Note: PSF and Silicone Rubber are autoclavable up to 134°C (at least 50 cycles). Hytrel and Polycarbonate are autoclavable up to 121°C (at least 20 cycles).*

### Disposal and Single-patient use products are designed to reduce the risk of cross-infection and therefore have strict prohibitions on re-processing and reusing on multiple patients. When reusing durable products, please exercise strict adherence to validated institution policy and procedure, as well as the information available on disinfection or sterilization processes. Clean or disinfect when:

1. Any product part has been used
2. Any product part is contaminated
3. Any product part has been in use for more than 24 hours on a single-patient

Manufacturer’s suggested procedure for disinfection: The following instruction is a general guide. Please refer to individual organization’s operating instructions on cleaning and disinfecting products:

a. High Temperature Pressure Disinfection:
   Products should be disinfected at 134°C for 5 minutes (eg. for materials such as polysulfone and silicone). For hytrel and polycarbonate products, the temperature should not exceed 121°C and should not be processed for longer than 15 minutes.

b. Chemical Disinfection:
   Products should be soaked under warm water with mild detergents. Wash and rinse thoroughly to remove any residual material and store in a cool dry place to allow it to air dryer.

c. Ethylene Oxide Disinfection:
   Follow the instruction for use for Ethylene Oxide disinfection devices.
