

Anaesthesia Breathing Systems

Parallel Circuits

Product Data Sheet

PRODUCT: Parallel Circuits**DISCRIPTION / FUNCTION**

Anaesthetic Breathing Systems channel fresh anaesthetic gases to, and expired gases from, a patient. They are connected to an anaesthetic machine and used for induction and maintenance of general anaesthesia.

Parallel Breathing Circuits are designed for use in a closed or semi-closed, circular system in conjunction with CO₂ absorbent, in general inhalation anaesthesia.

A Parallel Circuit is comprised of two limbs; an inspiratory limb to channel fresh gases to the patient and an expiratory limb to channel expired gases away from patient. The two limbs are joined at the patient end by a Y-Piece that enables connection to an airway device such as an endotracheal tube or laryngeal mask. At the machine end, each limb incorporates standardised 22mm Female connectors to enable a secure connection to a wide range of anaesthetic machines. The limbs of the parallel breathing circuit can be composed of Standard Corrugated, Smooth Bore or Flexi-Lock tubing.

Standard Corrugated Tubing

This tubing offers low compliance, lightweight, crush resistant tubing for adult and paediatric applications.

Flexi-Lock Tubing

This is expandable tubing for greater flexibility within the operating room, or during patient transport. The circuit can be expanded to the desired length and configured to minimise dead space.

Smooth Bore Tubing

This tubing reduces gas flow resistance and turbulence which may be associated with some corrugated tubing. The spiral reinforcement of the tube supports the patency of the inner lumen, ensuring delivery of fresh gas.

PRECAUTIONS/WARNINGS

- Do not use if packaging is open or damaged.
- Before each use, check all connectors are fitted correctly and carry out a functional test to ensure there is no occlusion or leakage in the system, in line with local guidelines, e.g. AAGBI Safety Guideline 'Checking Anaesthetic Equipment 2012'.
- Paediatric and Infant Systems are single use only. Do not re-sterilise or autoclave.
- Adult Anaesthesia Breathing Systems are single use. However, unless otherwise dictated by local hospital policy and local guidelines, Adult Anaesthesia Breathing Systems can be used on multiple patients provided a new Flexicare or other appropriately validated* bacterial/viral breathing filter is used at the patient end of the system for each individual patient. In this case, Flexicare

Anaesthesia Breathing Systems are validated for a period of use for up to 7 days or 10 operating lists, whichever is shorter.

- The removal of any component (other than a patient end filter) from any assembled breathing system shall render it single use only and continued use or subsequent re-use of that system is not permitted.
- Contamination: Regardless of the designated use, all the components of a breathing system should be discarded immediately after any use where there is actual or suspected infection that might be transmissible via the breathing system or where visible contamination is present (e.g. blood or other fluids).
- This product may not be decontaminated in any way. This includes rinsing, washing or decontamination using gas, heat and steam or boiling water.
- After use, this product is contaminated waste and may be a potential biohazard. Handle and dispose of in accordance with hospital policy and applicable local guidelines and regulations.

*A validated bacterial/viral filter meets BS EN ISO 23328 Breathing system filters for anaesthetic and respiratory use. Parts 1 & 2.

SPECIFICATIONS / KEY FEATURES

Parallel Circuits are available in a wide range of formats with optional accessories which include:

- Adult 22mm and Paediatric 15mm systems
- Standard circuit lengths of 1.5m, 1.6m, 2.0m, 2.4m, 4.5m
- 1.8m circuit lengths available with certain variants
- 22mm Male/15mm Female patient end connectors
- Y-Pieces with and without monitoring, pressure and MDI ports
- Gas sampling lines
- Fixed, Swivel and Detachable Y-Pieces
- Standard Corrugated, Smooth Bore and Flexi-Lock Tubing
- 0.5L, 1L, 2L and 3L latex free reservoir bags
- 22mm M/M spare connectors
- Elbow connectors
- Additional circuit limbs of 0.8m
- Argentic tubing option

PRODUCT RANGE

Product Code	Product Description
038-01-100	Basic Parallel (1.6m) 22mm lightweight, flexible corrugated tube with parallel Y-Piece and 22mm F connectors + spare M/M connector
038-01-100Ag	As above with Argentic Tubing
038-01-100D	Basic Parallel (1.6m) 22mm lightweight, flexible corrugated tube with parallel Y-Piece, Bacterial/Viral filter, Bacterial/Viral filter + HME and 22mm F Connectors + spare M/M connector
038-01-100/641	Basic Parallel (1.6m) 22mm lightweight, flexible corrugated tube with parallel Y-Piece, 22mm F connectors, spare M/M connector, low profile elbow and safety cap
038-01-105	Basic Parallel (2.4m) 22mm lightweight, flexible corrugated tube with parallel Y-Piece and 22mm F connectors + spare M/M connector
038-01-105Ag	As above with Argentic Tubing
038-01-120	Basic Parallel (1.6m) with limb 22mm lightweight, flexible corrugated tube with parallel Y-Piece and 22mm F connectors + 0.8m F/F limb + spare M/M connector
038-01-120Ag	As above with Argentic Tubing

038-01-125	Basic Parallel (2.4m) with limb 22mm lightweight, flexible corrugated tube with parallel Y-Piece and 22mm F connectors + 0.8m F/F limb and spare M/M connector
038-01-125Ag	As above with Argentic Tubing
038-01-102	Basic Parallel with Swivel Y-Piece (1.6) 22mm lightweight, flexible corrugated tube with swivel Y-Piece and 22mm F connectors + spare M/M connector
038-01-102Ag	As above with Argentic Tubing
038-01-103	Basic Parallel with Swivel Y-Piece (2.4m) 22mm lightweight, extra flexible corrugated tube with swivel Y-Piece and 22mm F connectors + spare M/M connector
038-01-103Ag	As above with Argentic Tubing
038-01-122	Basic Parallel (1.6m) with Swivel Y-Piece + limb 22mm lightweight, flexible corrugated tube with Swivel Y-Piece and 22mm F connectors+ 0.8m F/F limb + spare M/M connector
038-01-122Ag	As above with Argentic Tubing
038-01-110	Basic Parallel (1.6m) with 22mm lightweight, flexible corrugated tube with parallel Y-Piece and 22mm F connectors + 0.8m F/F limb + Low Profile Elbow + 2L Reservoir Bag + Spare M/M connector
038-01-110Ag	As above with Argentic Tubing
038-01-110T	Basic Parallel (1.6m) 22mm lightweight, flexible corrugated tube with parallel Y-Piece, HME Filter and 22mm F Connectors + 1.6m F/F limb + Low Profile Elbow + 2L Reservoir Bag + spare M/M connector + m/m CO ₂ monitoring line
038-01-110LX	As 038-01-110 with 2.4m length
038-01-110GE	As 038-01-110 with fixed angled elbow bag connector compatible with Advanced Breathing System (ABS) technology
038-01-110LXGE	As 038-01-110 2.4m length with fixed angled elbow bag connector compatible with Advanced Breathing System (ABS) technology
038-01-110/701	Basic Parallel (1.6m) with 3m Gas Sampling Line, 22mm lightweight, flexible corrugated tube with parallel Y-Piece and 22mm F connectors + 0.8m F/F limb + Low Profile Elbow + 2L Reservoir Bag + spare M/M connector
038-01-110LXXY	Basic Parallel (4.5m) with 22mm lightweight, flexible corrugated tub with parallel Y-Piece and 22mm F connectors + 1.6m F/F limb + Low Profile Elbow + 2L Reservoir Bag + spare M/M connector
038-01-110/641	Parallel 1.6m with Luer Elbow, 2L Reservoir Bag and 0.8m Limb
038-01-106	Flexi-Lock Parallel (2.0m expanded) with Y-Piece and 22mm F connectors + 0.8m F/F limb + spare M/M connector + Low Profile Elbow
038-01-106Ag	As above with Argentic Tubing
038-01-106P	Flexi-Lock Parallel (2.0m expanded) with Y-Piece and 22mm F connectors + 1.5m F/F Flexi-Lock limb + 2L reservoir bag + spare M/M connector + Luer Elbow
038-01-106/3 AUS	Flexi-Lock Parallel (2.0m expanded) with Y-Piece and 22mm F connectors + 1.5m F/F Flexi-Lock limb + 2L reservoir bag + spare M/M connector + Luer Elbow
038-01-104	Adult Smooth Bore Circuit (1.6m) with 22mm lightweight smooth bore tubing, parallel Y-Piece and flexible 22mm F connectors + spare 22mm M/M connector
038-01-104P	Adult Parallel Circuit (Smooth Bore) 1.6m with Pressure Line
038-01-104XIT	Adult Smooth Bore Circuit (1.8m) Italy - Sterile
038-01-107	Adult Smooth Bore Circuit (2.4m) with 22mm lightweight smooth bore tubing with parallel Y-Piece and flexible 22mm F connectors + spare 22mm M/M connector

038-01-124	Adult Smooth Bore Circuit (1.6m) 22mm lightweight smooth bore tubing with parallel Y-Piece and flexible 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector
038-01-127	Adult Smooth Bore Circuit with limb (2.4m) 22mm lightweight smooth bore tubing with parallel Y-Piece and flexible 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector
038-01-108	Adult Smooth Bore Circuit (1.6m) 22mm lightweight smooth bore tubing with detachable parallel Y-Piece and flexible 22mm F connectors + spare 22mm M/M connector
038-01-109	Adult Smooth Bore Circuit (2.4m) 22mm lightweight smooth bore tubing with detachable parallel Y-Piece and flexible 22mm F connectors + spare 22mm M/M connector
038-01-128	Adult Smooth Bore Circuit (1.6m) with limb 22mm lightweight smooth bore tubing with detachable parallel Y-Piece and flexible 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector
038-01-129	Adult Smooth Bore Circuit (2.4m) with limb 22mm lightweight smooth bore tubing with detachable parallel Y-Piece and flexible 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector
038-01-123	Adult Smooth Bore Circuit (1.6m) with limb 22mm lightweight smooth bore tubing with detachable parallel swivel Y-Piece and flexible 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector
038-02-110/641	Paediatric Parallel 1.6m with Luer Elbow, 1L Reservoir Bag + 0.8m Limb
038-02-166	Paediatric Smooth Bore Circuit (1.5m) 15mm lightweight smooth bore tubing with parallel Y-Piece and flexible 22mm F connectors + spare 22mm M/M connector
038-02-162	Paediatric Smooth Bore Circuit (1.5m) 15mm lightweight smoothbore tubing with bifurcated Y-Piece with monitoring ports and flexible 22mm F connectors + spare 22mm M/M connector
038-02-163	Paediatric Smooth Bore Circuit (1.5m) 15mm lightweight smooth bore tubing with detachable Y-Piece and flexible 22mm F connectors + spare 22mm M/M connector
038-02-164	Paediatric Smooth Bore Circuit (1.5m) 15mm lightweight smooth bore tubing with low dead space Y-Piece + Monitoring Ports and flexible 22mm F connectors + spare 22mm M/M connector
038-02-165	Basic Parallel (1.6m) Low resistance 15mm corrugated tube, parallel Y-Piece, 22mm F connectors + spare 22mm M/M connector
038-02-180	Flexi-Lock Parallel (1.5m Expandable) 15mm corrugated tube, parallel Y-Piece, 22mm Female Connectors + Spare 22mm M/M Connector
038-02-180R	Paediatric Flexi-Lock Parallel (2.4m Expandable) 15mm Flexi-Lock tube, parallel Y-Piece, 22mm F connectors, HME Filter + spare 22mm M/M connector + 1l reservoir bag + 1.6m Flexi-lock limb + m/m monitoring line

MATERIALS

Component	Material
Serrated Connector	Polyethylene (PE)
Y-Piece (including Y-Piece 22mm with two monitoring ports)	Polypropylene (PP)
Red Cap with Wings	Polypropylene (PP)
Low Profile Elbow	Polypropylene (PP)
22M/22M/15F Connector	Polypropylene (PP)

22mm Corrugated Tubing	Polyethylene (PE)
Reservoir Bag <ul style="list-style-type: none"> • Bag • Connector 	Latex Free Neoprene Polypropylene (PP)
Smoothbore Tubing	Thermoplastic Elastomer (TPE)
Flexi-Lock Tubing	Polypropylene (PP)
Pressure Line	Polyvinyl Chloride (PVC)
Plug and Strap	Polyethylene (PE)

LATEX CONTENT

Flexicare's Parallel Circuits do not contain natural rubber latex.

DEHP CONTENT

Flexicare's Parallel Circuits do not contain phthalate DEHP.

SINGLE-USE

Unless otherwise dictated by local hospital policy and local guidelines, Adult Anaesthesia Breathing Systems are reusable on multiple patients provided a new Flexicare® or other appropriately validated* bacterial/viral breathing filter is used at the patient end of the system for each individual patient. In this case, Flexicare® Anaesthesia Breathing Systems are validated for a period of use up to 7 days or 10 operating lists, whichever is shorter. If used without this filter protection, Adult Anaesthesia Breathing Systems are single use.

Paediatric Anaesthesia Breathing Systems are single use.

STERILITY

Flexicare's Parallel Circuits are normally supplied non-sterile. However, in certain regions, some variants are available sterile. Contact your local sales representative for information on which circuits are available sterile in different regions. Sterilisation method is Ethylene Oxide (EO).

STORAGE

Store in a cool, dry place out of direct sunlight.

SHELF LIFE

Flexicare declares a shelf life for 5 years from date of manufacture or sterilisation. This is based on the stability of the component devices and the raw material sourced. Expiry date is clearly marked on individual product packaging.

DISPOSAL CONSIDERATIONS

Dispose as clinical waste, in accordance with hospital policy, local guidelines and regulations.

PACKAGING MATERIALS

Primary – Pouch - Polyethylene (PE)

Secondary – Box – Cardboard