CONTENT

Disposable Pressure Transducer

Why invasive blood pressure monitoring is needed?

Arterial blood pressure is most accurately measured invasively through an arterial line. Invasive arterial pressure measurement with intravascular cannula involves direct measurement of arterial pressure by placing a cannula needle in an artery (usually radial, femoral, dorsalis pedis or brachial).

The cannula must be connected to a sterile, fluid-filled system, which is connected to an electronic pressure transducer. This invasive technique is regularly employed in human and veterinary intensive care medicine, anesthesiology and for research purposes.

IBP (Invasive Blood Pressure)provides various clinical values. In surgical applications, the blood pressure is continuously and accurately measured, allowing medical staff to react to changes faster. For example, if anesthesia is given to the patient, the continuous monitoring can confirm it has not caused an adverse effect to the blood pressure. During certain operations, maintaining blood pressure in a very narrow range is critical; IBP creates the capability to monitor and maintain pressures. IBP also plays a critical role in situations where blood pressure is expected to fluctuate rapidly. By continuously monitoring the pressure, medical staff can be more timely and accurate in their reactions.

When to use:

● NIBP(Non-Invasive Blood Pressure) is not possible to use or when greater accuracy is required.

● Blood pressure must be maintained in very narrow range for a period of time.

● Blood pressure is expected to fluctuate significantly.

● Continuous blood analysis is required.

Method Comparison

ITEM	NIBP(Non Invasive Blood Pressure)	IBP(Invasive Blood Pressure)
Advantage	No wound	Continuous, accurate and reliable blood pressure monitor
Application	Out-patient, tentative diagnosis	Intensive Care Unit (ICU), Operating room, especially interventional operations
Disadvantage	Accuracy depends on human operating Factors	Penetration of blood vessel

Disposable Pressure Transducer

Features:

- Consistent and accurate readings during blood pressure monitoring.
- High durometer pressure tubing ensures optimal dynamic response.
- The convenient snap-tap flush device designed for easy priming and square-wave testing.
- Multiple standard configuration, adult and neonatal/pediatric.
- Versatile, dual function snap tab allows dynamic response testing.
- 3cc or 30cc per hour flow rates with dual function flush device.
- 6 connectors match most monitors and single, double, triple lumens are options.
- Administration sets pre-connected to the IBP Transducer sets
- Sterile and individually packaged.
- ISO, CE & FDA 510K.

PERFORMANCE SPECIFICATIONS

Supply Voltage:6.0Vdc
Ambient Temperature:23℃ (unless otherwise specified)

	PARAMETERS	MIN	TYP	MAX	UNITS	NOTES
Electrical	Operating Pressure Range	-50		300	mmHg	
	Over Pressure	125			psi	
	Zero Pressure Offset	-20		20	mmHg	
	Input Impedance	1200		3200	Ω	
	Output Impedance	285		315	Ω	
	Output Symmetry	0.95		1.05	Ratio	3
	Supply Voltage	2	6	10	Vdc or Vac rms	
	Risk Current (@ 120 Vac rms, 60Hz)			2	uA	
	Sensitivity	4.95	5.00	5.05	uU/V/mmHg	
Performance	Calibration	97.5	100	102.5	mmHg	1
	Linearity and Hysteresis (-30 to 100 mmHg)	-1		1	mmHg	2
	Linearity and Hysteresis (100 to 200 mmHg)	-1		1	% Output	2
	Linearity and Hysteresis (200 to 300 mmHg)	-1.5		1.5	% Output	2
	Frequency Response		1200		Hz	
	Offset Drift			2	mmHg	4
	Thermal Span Shift	-0.1		0.1	%/℃	5
	Thermal Offset Shift	-0.3		0.3	mmHg/℃	5
	Phase Shift (@ 5KHz)			5	Degrees	
	Defibrillator withstand (400 joules)	5			Discharges	6
	Light Sensitivity (3000 Foot Candle)		1		mmHg	
Enviromental	Sterilization (ETO)	3			Cycles	7
	Operating Temperature	10		40	℃	
	Storage Temperature	-25		+70	℃	
	Operating Product Life			168	Hours	
	Shelf Life	5			Years	
	Dielectric Breakdown		10,000		Vdc	
	Humidity (External)	10-90% (non-condensing)				
	Media Interface	Dielectric Gel				
	Warm-Up Time		5		Seconds	

Disposable Pressure Transducer
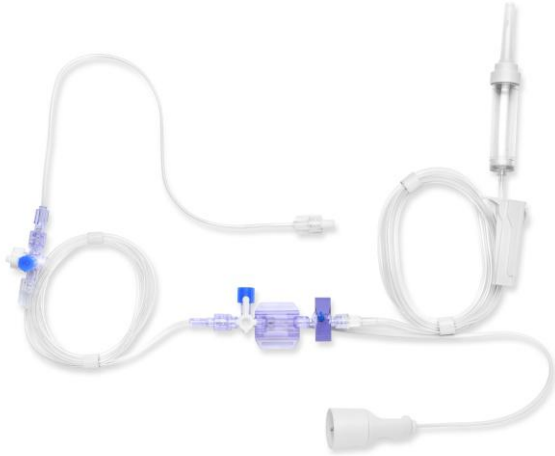
DBPT-0103 IBP Transducer

Introduction

Provide consistent and accurate readings of arterial and venous blood pressure measurements.
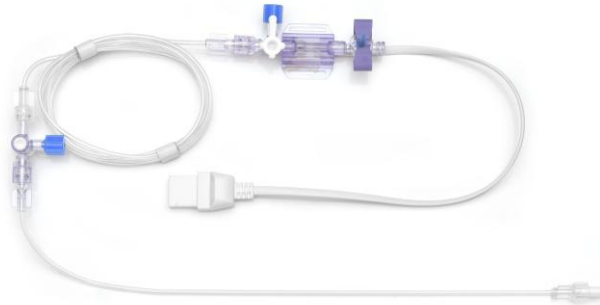
Features:

- Kit options (3cc or 30cc) for both adult/pediatric patients.
- With single, double and triple lumen.
- Available with closed blood sampling system.
- 6 connectors and various cables match most monitors in the world.
- ISO, CE & FDA 510K.

Disposable Pressure Transducer

TYPE	Specification	Description	Package	Carton size
DBPT-0103		Adult	40pcs /carton	41.5×29×44.5cm
DBPT-0130		Pediatric	40pcs /carton	41.5×29×44.5cm
DBPT-0203		Intervention Use	40pcs /carton	41.5×29×44.5cm
DBPT-0303		Assembled Core Part	40pcs /carton	41.5×29×44.5cm
DBPT-0403		Double Lumen	20pcs /carton	41.5×29×44.5cm
DBPT-0503		Closed blood sampling system	20pcs /carton	41.5×29×44.5cm
DBPT-1003		Triple Lumen	20pcs /carton	41.5×29×44.5cm

Disposable Pressure Transducer
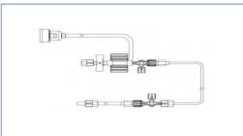

DBPT-0203 IBP Transducer

Introduction

Provide consistent and accurate readings of arterial and venous blood pressure measurements during cardiac intervention operations.

Features:

● Kit options (3cc or 30cc) for both adult/pediatric patients.

● 6 connectors and various cables match most monitors in the world.

● **Widely used for interventional operations.**

Disposable Pressure Transducer				
REF	Specification	Package	Carton size	Shelf Life
DBPT-0203		40pcs /carton	41.5×29×44.5cm	5 Years

Disposable Pressure Transducer

Fixation Plate for Disposable Pressure Transducer

With color coded labels provides easy identification of various components and be easily adapted to mount to the bedside or an IV pole. Reusable.
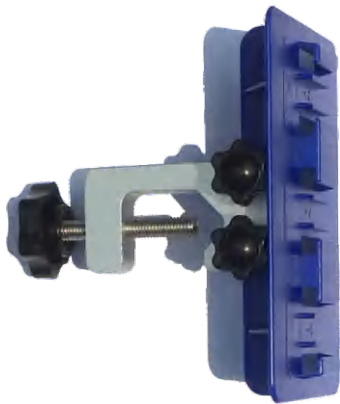
Transducer Fixation Plate Holder
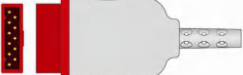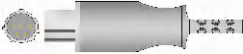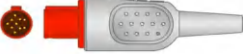
Uses thumb screws to secure Transducer Fixation Plate. Reusable.

IBP Interface Cables

Interface Cables are for connection between disposable or reusable transducers and the specified monitoring system. All cables are 3m in length and packaged individually. Cables are reusable, non-sterile.

Disposable Pressure Transducer

Cable No.	Connector of Machine	Monitor Type
012		**GE-Datex** Airshield,Burdick,Kone
062		**GE-Marquette** Eagke/dash1000,2000,3000,3100,4000;Solar7000,8000,9000; Tram Module 100-600, Cath-Lab, MAC-Lab
026		**Philips/HP** 78352A**,** M1165A**,** MerlinViridia 24**,** CMS 24 M3**/**M4**,**M1175A**,** M1350B,M1205A**,** M1350A,M1353A**,**8030A**,**8040A
002		**Spacelabs & General** BCI**,** IVY**,** Ctitikon, Invivo**,** Mennen**,** NDE,PB**,** Nellcor**,** Tektronix**,** Viatek
032		**Siemens** Sirecust 400-1281,SC8000
003		**Siemens** SC 6000,7000,9000
096		**Drager** Cato, Cicero EM,Vitara Parameterbox PB 8800; PM8010; PM8014 PM 8040; PM 8060, Sulla, UM3, UM3.1
086		**Datascope** System 80,82,83,84,90,90T,95,98,97 IABP,850,870,P2,P3,2000, 2000A.,2001,2001A,2002,2002A,2200I,3000, Passport
091		**Nihon Kohden** Lifescope 6,9,12,14; AP-311P -800PA BMS 2100-8500A OEC 3200-8120A, OMP-3221E −n7203, Mercury 9510K
093		**Nihon Kohden**
014		**Kontron** Minimon 7131-7136, Fetalmon 2A,2B Fetalogic 4000, Fetasonde 5,5A,5B K2000 Ballon Pump; KAAT II Module 10-7286, Supermon
075		**Spacelabs** Ultraview
019		**GE Corometrics**
068		**GE Hellige**
113		**Lohmeier**

Disposable SpO₂ Sensor

Introduction

A highly accurate sensor that features tear-resistant bandages.

Features:

- Offers high accuracy data during low saturation conditions, 60% to 80% SpO₂+/-3.
- Enable informed clinical decisions for patients in low saturation range.

Disposable SpO₂ Sensor				
REF	**Specification**	**Package**	**Carton Size**	**Shelf Life**
HS-SA-1	Adult breathable film type	100PCS /Carton	38.5×23.5×28.5cm	3 years
HS-SA-2	Adult non-woven type	100PCS /Carton	38.5×23.5×28.5cm	3 years
HS-SA-3	Adult sponge type	100PCS /Carton	38.5×23.5×28.5cm	3 years
HS-SP-1	Infant breathable film type	100PCS /Carton	38.5×23.5×28.5cm	3 years
HS-SP-2	Infant non-woven type	100PCS /Carton	38.5×23.5×28.5cm	3 years
HS-SP-3	Infant sponge type	100PCS /Carton	38.5×23.5×28.5cm	3 years
HS-SI-1	Pediatric non-woven type	100PCS /Carton	38.5×23.5×28.5cm	3 years
HS-SI-2	Infant foam package type	100PCS /Carton	38.5×23.5×28.5cm	3 years
HS-SI-3	Pediatric foam type	100PCS /Carton	38.5×23.5×28.5cm	3 years
HS-SN-1	Pediatric non-woven type	100PCS /Carton	38.5×23.5×28.5cm	3 years
HS-SN-2	Adult foam type	100PCS /Carton	38.5×23.5×28.5cm	3 years
HS-SN-3	Pediatric foam type	100PCS /Carton	38.5×23.5×28.5cm	3 years

Disposable Central Venous Catheter Kit

Introduction

Central venous catheterization allows for an adequate therapy of critically ill patients during complex therapeutic interventions, especially in anesthesia, intensive care and emergency.

Features:

- Equipped with Guided Syringe or T-Type introducer.
- Sterile product and comes with single use.
- Contains scalpel, Catheter holder and clamp, indwelling catheter, injection cap, extension line clamp and other necessary equipments.

Disposable Central Venous Catheter Kit				
REF	**Description**	**Package**	**Carton Size**	**Shelf Life**
CVC-01A	Single Lumen,Adult,5Fr	20 PCS/Carton	62×42×27 cm	2 years
CVC-01P	Single Lumen,Pediatric,4Fr	20 PCS/Carton	62×42×27 cm	2 years
CVC-02A	Double Lumen,Adult,7Fr	20 PCS/Carton	62×42×27 cm	2 years
CVC-02P	Double Lumen,Pediatric,5Fr	20 PCS/Carton	62×42×27 cm	2 years
CVC-03A	Double Lumen,Adult,7Fr	20 PCS/Carton	62×42×27 cm	2 years
CVC-03P	Double Lumen,Pediatric,5.5Fr	20 PCS/Carton	62×42×27 cm	2 years

The science of anesthesia breathing circuits

The evidence based guidelines shows that anesthesia breathing circuit components can help to reduce infections, prevent cross contamination between patients and maintain normothermia.

Why single-use circuits
- Respiratory pathogens can be transmitted through breathing circuits used to provide anesthesia. This can put reusable circuits at risk for contamination of the next patient.
- The reuse of breathing circuits puts both patients and anesthesiologists at risk for hospital acquired infections. Disposable circuits can be an important part of prevention protocol.
- The OR has unique infection control issues compared with other clinical care areas—due to the patient's vulnerability and prolonged period under anesthesia. Consequently, microorganisms may be transmitted via contamination of normally sterile sites with a patient's own bacteria and transmission of bacteria to subsequent patients in the OR.

Why use Heat Moisture Exchanger Filters (HMEF)
- HMEF is passive humidification with bacterial/viral filtration efficiency.
  Gases emerging from anesthesia machine are dry and room temperature (cold)
- Tracheal intubation or use of laryngeal mask airway bypasses upper airway modifying pattern of heat and moisture exchange, lungs need 37° & 100% relative humidity.
- Cilia can stop beating with impaired mucocilliary function includes sputum retention & increased risk of infection .
- Warmed humidified air is better than cold, dry gases even in short cases.

Why use Bacterial Viral Filters (B/V)
- If used on both the inspiratory and expiratory limb, eliminates risk of switching the filtration limb at machine .
- Expert committees recommend the use of filters for control/prevention of infections.

Hisern Medical offers an extensive range of circuits covering smooth bore,expandable, corrugated, coaxial and Duo-limb tubing. From a basic Y-Piece circuit to a complete kit that includes a variety of components, we will have a circuit to meet your requirements. All anesthetic breathing systems are available in a wide range of configurations. For more challenging requests, we also can provide a complete custom solution.

Anesthetic Breathing Systems

A wide range of anesthetic systems are available in different lengths, configurations and tube types for your clinical requirements.

Disposable Corrugated Anesthesia Circuit
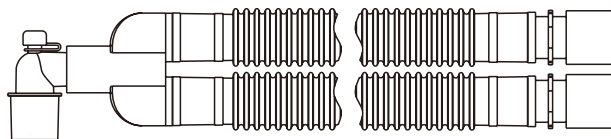
Latex Free Reservior Bags	HME Filter	B/V Filter	Catheter Mount	Disposable Anesthesia Mask	Gas Sampling Line

Disposable Corrugated Anesthesia Circuit

REF	Specifications	Qty/CTN
MGC-1.5 BWA	Adult, Anesthesia Circuit,1.5m corrugated tubing, Options:2L/3L Latex free breathing bag, HMEF, Anesthesia Mask, Gas sampling line	20
MGC-1.8 BWA	Adult, Anesthesia Circuit,1.8m corrugated tubing, Options:2L/3L Latex breathing bag, B/V Filter, Anesthesia Mask, Gas sampling line	20
MGE-1.5 BWP	Pediatric, Anesthesia Circuit, 1.5m corrugated tubing, Options:0.5L/1L Latex free breathing bag, HMEF, Anesthesia Mask, Gas sampling line	20
MGE-1.8 BWP	Pediatric,Anesthesia Circuit,1.8m corrugated tubing, Options:0.5L/1L Latex free breathing bag, HMEF, Anesthesia Mask, Gas sampling line	20

Remark:Length, breathing bag size, filter type and anesthesia mask size can be customized.

Anesthetic Breathing Systems

Disposable Collapsible Anesthesia Circuit(Expandable)

Latex Free Reservior Bags	HME Filter	B/V Filter	Catheter Mount	Disposable Anesthesia Mask	Gas Sampling Line

Disposable Collapsible Anesthesia Circuit(Expandable)

REF	Specifications	Qty/CTN
MGC-1.5 SSA	Adult, Anesthesia Circuit,1.5m expandable tubing, Options:2L/3L Latex free breathing bag, HMEF, Anesthesia Mask, Gas sampling line	40
MGC-1.8 SSA	Adult, Anesthesia Circuit,1.8m expandable tubing, Options:2L/3L Latex breathing bag, B/V Filter, Anesthesia Mask, Gas sampling line	40
MGE-1.5 SSP	Pediatric, Anesthesia Circuit,1.5m expandable tubing, Options:0.5L/1L Latex free breathing bag, HMEF, Anesthesia Mask, Gas sampling line	40
MGE-1.8 SSP	Pediatric, Anesthesia Circuit, 1.8m expandable tubing, Options:0.5L/1L Latex free breathing bag, HMEF, Anesthesia Mask, Gas sampling line	40

Remark:Length,breathing bag size, filter type and anesthesia mask size can be customized.

Anesthetic Breathing Systems

Disposable Smoothbore Anesthesia Circuit

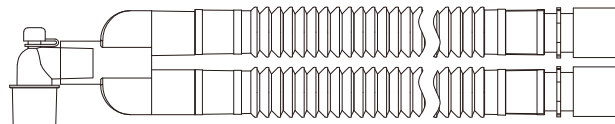| Latex Free Reservior Bags | HME Filter | B/V Filter | Catheter Mount | Disposable Anesthesia Mask | Gas Sampling Line |

Disposable Smoothbore Anesthesia Circuit

REF	Specifications	Qty/CTN
MGC-1.5 LWA	Adult, Anesthesia Circuit ,1.5m smoothbore tubing , Options :2L/3L Latex free breathing bag, HMEF, Anesthesia Mask, Gas sampling line	20
MGC-1.8 LWA	Adult, Anesthesia Circuit,1.8m smoothbore tubing , Options:2L/3L Latex breathing bag, B/V Filter, Anesthesia Mask,Gas sampling line	20
MGE-1.5 LWP	Pediatric, Anesthesia Circuit,1.5m Smoothbore tubing, Options:0.5L/1L Latex free breathing bag, HMEF, Anesthesia Mask, Gas sampling line	20
MGE-1.8 LWP	Pediatric, Anesthesia Circuit, 1.8m Smoothbore tubing, Options:0.5L/1L Latex free breathing bag, HMEF, Anesthesia Mask, Gas sampling line	20

Remark:Length, breathing bag size, filter type and anesthesia mask size can be customized.

Anesthetic Breathing Systems

Disposable Coaxial Anesthesia Circuit

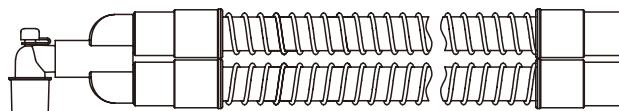| Latex Free Reservior Bags | HME Filter | B/V Filter | Catheter Mount | Disposable Anesthesia Mask | Gas Sampling Line |

Disposable Coaxial Anesthesia Circuit		
REF	**Specifications**	**Qty/CTN**
MGC-1.5 GZ	Adult, Anesthesia Circuit,1.5m coaxial tubing, Options:2L/3L Latex free breathing bag, HMEF, Anesthesia Mask, Gas sampling line	20
MGC-1.8 GZ	Adult, Anesthesia Circuit,1.8m coaxial tubing, Options:2L/3L Latex breathing bag, B/V Filter, Anesthesia Mask, Gas sampling line	20

Remark:Length, breathing bag size, filter type and anesthesia mask size can be customized.

Anesthetic Breathing Systems

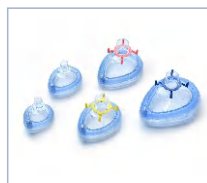## Disposable Duo-Limb Anesthesia Circuit
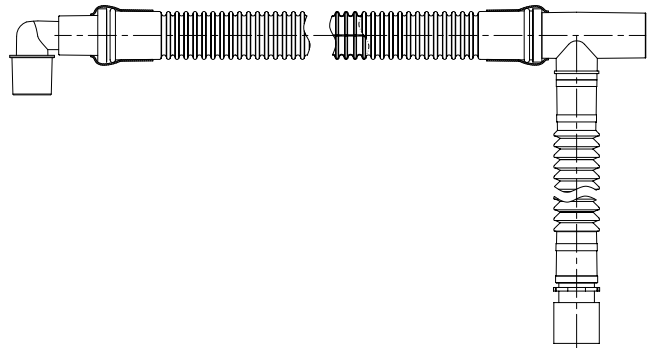
| Latex Free Reservior Bags | HME Filter | B/V Filter | Catheter Mount | Disposable Anesthesia Mask | Gas Sampling Line |

Disposable Duo-Limb Anesthesia Circuit

REF	Specifications	Qty/CTN
MGC-1.5 ZF	Adult, Anesthesia Circuit,1.5m limbo tubing, Options:2L/3L Latex free breathing bag, HMEF, Anesthesia Mask, Gas sampling line	20
MGC-1.8 ZF	Adult, Anesthesia Circuit,1.8m limbo tubing, Options:2L/3L Latex breathing bag, B/V Filter, Anesthesia Mask,Gas sampling line	20

Remark:Length, breathing bag size, filter type and anesthesia mask size can be customized.

Anesthetic Breathing Systems
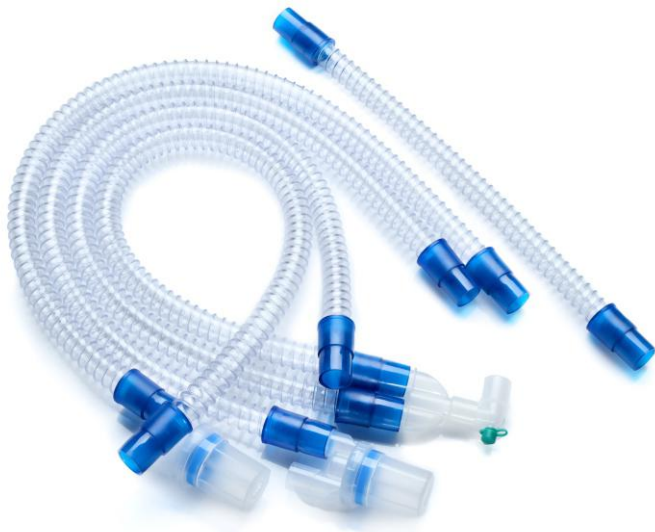
Disposable Smoothbore Breathing Circuit
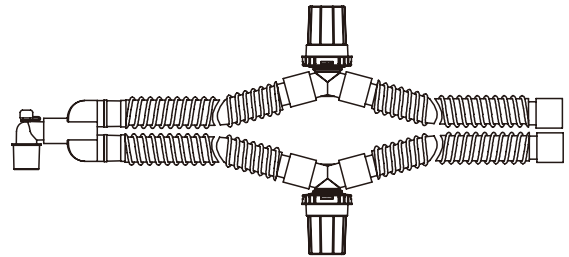
Water Trap	HME Filter	B/V Filter	Catheter Mount	Gas Sampling Line

Disposable Smoothbore Breathing Circuit

REF	Specifications	Qty/CTN
HGC-1.5 LWA	Adult, Breathing Circuit , 1.5m smoothbore tubing, Options: Filters, Gas sampling line, extra limb	15
HGC-1.8 LWA	Adult, Breathing Circuit , 1.8m smoothbore tubing, Options: Filters, Gas sampling line, extra limb	15
HGE-1.5 LWP	Pediatric, Breathing Circuit,1.5m smoothbore tubing, Options: Filters, Gas sampling line, extra limb	15
HGE-1.8 LWP	Pediatric, Breathing Circuit,1.8m smoothbore tubing, Options: Filters, Gas sampling line, extra limb	15

Remark:Length and filter type can be customized.

Anesthetic Breathing Systems
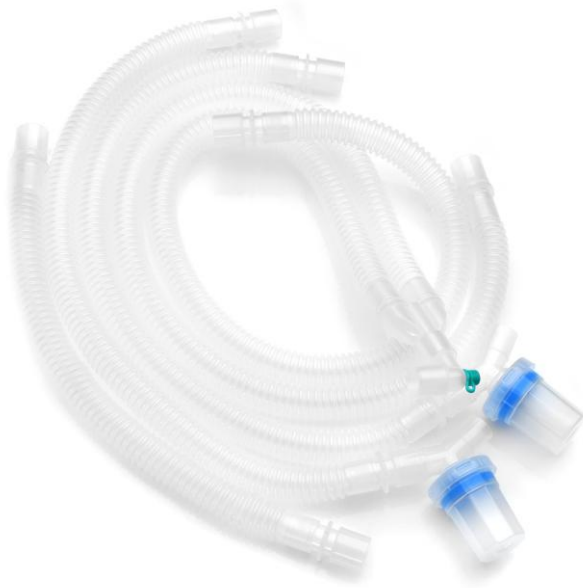
Disposable Corrugated Breathing Circuit
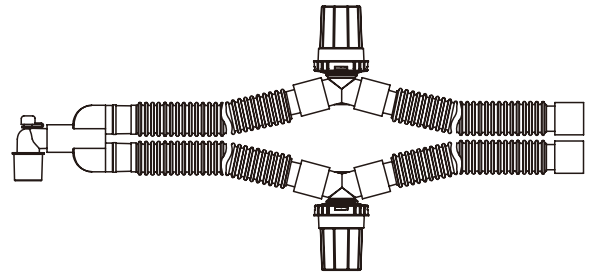
| Water Trap | HME Filter | B/V Filter | Catheter Mount | Gas Sampling Line |

Disposable Corrugated Breathing Circuit

REF	Specifications	Qty/CTN
HGC-1.5 BWA	Adult, Breathing Circuit , 1.5m corrugated tubing, Options: Filters, Gas sampling line, extra limb	15
HGC-1.8 BWA	Adult, Breathing Circuit , 1.8m corrugated tubing, Options: Filters, Gas sampling line, extra limb	15
HGE-1.5 BWP	Pediatric, Breathing Circuit,1.5m corrugated tubing, Options: Filters, Gas sampling line, extra limb	15
HGE-1.8 BWP	Pediatric, Breathing Circuit,1.8m corrugated tubing, Options: Filters, Gas sampling line, extra limb	15

Remark:Length and filter type can be customized.

Anesthetic Breathing Systems

Disposable Collapsible Breathing Circuit(Expandable)
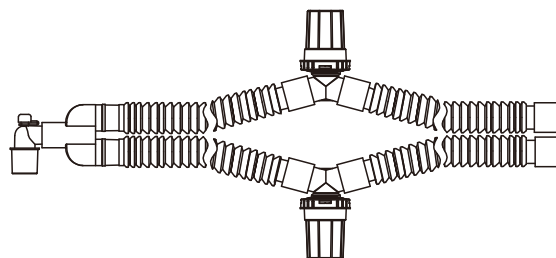
Water Trap	HME Filter	B/V Filter	Catheter Mount	Gas Sampling Line

Disposable Collapsible Breathing Circuit(Expandable)

REF	Specifications	Qty/CTN
HGC-1.5 SSA	Adult, Breathing Circuit , 1.5m collapsible tubing, Options: Filters, Gas sampling line, extra limb	15
HGC-1.8 SSA	Adult, Breathing Circuit , 1.8m collapsible tubing, Options: Filters, Gas sampling line, extra limb	15
HGE-1.5 SSP	Pediatric, Breathing Circuit,1.5m collapsible tubing, Options: Filters, Gas sampling line, extra limb	15
HGE-1.8 SSP	Pediatric, Breathing Circuit,1.8m collapsible tubing, Options: Filters, Gas sampling line, extra limb	15

Remark:Length and filter type can be customized.

Anesthetic Breathing Systems
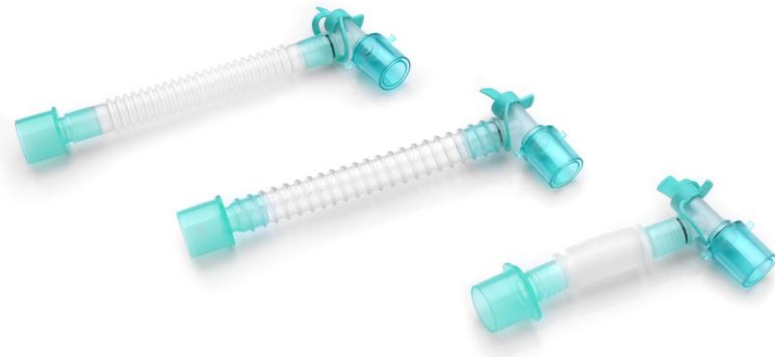
Catheter Mount

To connect the patient to the breathing system. Catheter mounts are available in three types of tube: Corrugated, Smoothbore or Expandable
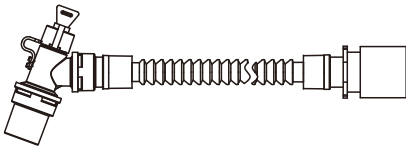
Collapsible tube
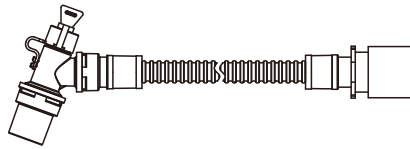
Corrugated tube
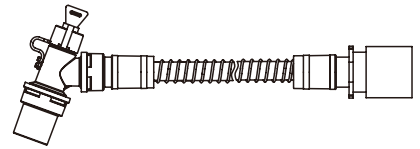
Smoothbore tube

Catheter Mount

REF	Specifications	Qty/CTN
YG-0.15BW	Corrugated tube	100
YG-0.15LW	Smoothbore tube	100
YG-0.15SS	Collapsible tube	100

Anesthetic Breathing Systems

Latex Free Reservior Bags

Frosted Latex Free Reservior Bags

Latex Reservior Bags

Reservoir Bags(Breathing Bags)

A range of single use reservoir bags for use in various clinical applications in a range of sizes .

Reservoir bags		
REF	**Specifications**	**Qty/CTN**
LFR-05	Latex Free 0.5L	200
LFR-10	Latex Free 1L	150
LFR-20	Latex Free 2L	100
LFR-30	Latex Free 3L	100
LFR-05M	Frosted Latex Free 0.5L	200
LFR-10M	Frosted Latex Free 1L	150
LFR-20M	Frosted Latex Free 2L	100
LFR-30M	Frosted Latex Free 3L	100
LRB-05	Latex 0.5L	200
LRB-10	Latex 1L	150
LRB-20	Latex 2L	100
LRB-30	Latex 3L	100

Anesthetic Breathing Systems
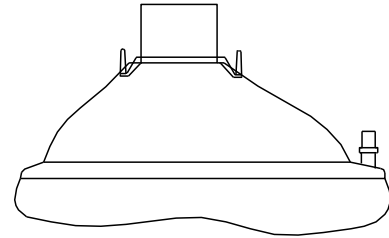
Disposable Anesthesia Mask (Inflatable)

The Disposable Anesthesia Mask is an anatomically correct shaped face mask designed for anesthetizing, oxygenating and ventilating any patient.

● Crystal clear dome for easy observation of the patient's condition
● Soft, shaped, air-filled cuff allows a tight fit to the patient's face
● Supplied with hook ring which can easily be removed if not needed
● The single patient use concept offers minimized risk of cross infection
● All sizes are delivered individually packed, sterile

Disposable Anesthesia Mask (Inflatable)

REF	Type	Size	Specifications	Qty/CTN
A9011	Inflatable	1	Newborn	120
A9012	Inflatable	2	Infant	120
A9013	Inflatable	3	Pediatric	100
A9014	Inflatable	4	Adult S	100
A9015	Inflatable	5	Adult M	100
A9016	Inflatable	6	Adult L	100

Anesthetic Breathing Systems
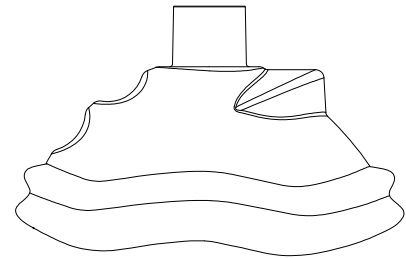
Disposable Anesthesia Mask (Non-inflatable)

The Disposable Anesthesia Mask is an anatomically correct shaped face mask designed for anesthetizing, oxygenating and ventilating any patient.

- Super Light and soft material
- PVC and Latex free
- No need inflation before use
- Transparent for visual check of bleeding, vomitus, and spontaneous breathing
- Available in 6 different sizes

REF	Type	Size	Specifications	Qty/CTN
Disposable Anesthesia Mask (Non-inflatable)				
A9010N	Non-Inflatable	0	Newborn	120
A9011N	Non-Inflatable	1	Infant	120
A9012N	Non-Inflatable	2	Pediatric	100
A9013N	Non-Inflatable	3	Adult S	100
A9014N	Non-Inflatable	4	Adult M	100
A9015N	Non-Inflatable	5	Adult L	100

Anesthetic Breathing Systems

Gas Sampling Line

Male/Female Connectors

Male/Male Connectors

Gas Sampling Line

Gas sampling lines are used to deliver gas samples to a monitoring device for the measurement of respiratory gases.

Gas Sampling Line		
REF	Specifications	Qty/CTN
GMF-15	1.5m Male/Female Connectors	600
GMF-18	1.8m Male/Female Connectors	600
GMF-30	3.0m Male/Female Connectors	600
GMM-15	1.5mMale/Male Connectors	600
GMM-18	1.8m Male/Male Connectors	600
GMM-30	3.0m Male/Male Connectors	600

Disposable Bacterial and Viral Filter

Introduction

Used in anesthesia and respiratory system, our B/V Filter is designed for the protection of the patient, hospital personnel and the equipment from potential microbial contamination.

Features:

- Lightweight reduces torque on tracheal connection.
- ISO connectors allow for safe and secure connections.
- Gas sampling port with cap for easy, safe monitoring of expired gases.
- ISO, CE&FDA 510K

A501-1

Parameters:

Description	Bacterial/Viral Filter (BV)
Humidity Output	N/A
Filtration Efficiency	BFE 99.9-99.999％ ,VFE 99-99.99%
Resistance @ 30 LPM	<1.2cmH$_2$O, (BFE99.999%,VFE 99.99%）
	<0.6cmH$_2$O, （BFE 99.9%, VFE 99%）
Resistance @ 60 LPM	<2.6 cmH$_2$O,（BFE 99.999%,VFE 99.99%）
	<1.5 cmH$_2$O,（BFE 99.9%, VFE 99%）
Dead space	32ml
Tidal Volume Range	250-1500ml
Connections	22M/15F-22F/15M
Gas Monitoring Luer Port with retainer strap	Yes
Weight	25±3g

Disposable Bacterial and Viral Filter

REF	Specification	Package	Carton size	Shelf Life
A501-1 Eco	Adult,BFE99.9%,VFE99%	100PCS /Carton	37.5×30×34.5cm	3 years
A501-1	Adult,BFE99.99%,VFE99.9%	100PCS /Carton	37.5×30×34.5cm	3 years
A501-1 Pro	Adult,BFE99.999%,VFE99.99%	100PCS /Carton	37.5×30×34.5cm	3 years

Heat Moisture Exchanger Filter (HMEF)

Introduction

Heat and Moisture Exchanger Filter (HMEF) combines the efficiency of dedicated breathing filters with optimum moisture return.

Features:

- Low dead space, to minimize dangers associated with re-breathing carbon dioxide.
- Lightweight, to reduce additional heavy on the tracheal connection.
- Maximizes the humidity of inspired gases.
- ISO, CE&FDA 510K

A501-2-S

Parameters:

Description	Heat Moisture Exchanger Filter (HMEF, Adult)
Humidity Output	31mg/H_2O @ VT 500ml
Filtration Efficiency	BFE 99.9-99.999 % VFE 99-99.99%
Resistance @ 30 LPM	<1.5cmH_2O, （BFE 99.999%, VFE 99.99%）
	<0.8cmH_2O, （BFE 99.9%, VFE 99%）
Resistance @ 60 LPM	<3.1cmH_2O, （BFE 99.999%, VFE 99.99%）
	<1.8 cmH_2O, （BFE 99.9%, VFE 99%）
Dead space	45ml
Tidal Volume Range	150-1500ml
Connections	22M/15F-22F/15M
Gas Monitoring Luer Port with retainer strap	Yes
Weight	26.5±3g

Heat Moisture Exchanger Filter (HMEF)				
REF	Specification	Package	Carton size	Shelf Life
A501-2-S Eco	Adult,BFE99.9%,VFE99%	100PCS /Carton	37.5×30×34.5cm	3 years
A501-S	Adult,BFE99.99%,VFE99.9%	100PCS /Carton	37.5×30×34.5cm	3 years
A501-2-S Pro	Adult,BFE99.999%,VFE99.99%	100PCS /Carton	37.5×30×34.5cm	3 years

Heat Moisture Exchanger Filter (HMEF, Contra Angle)

Introduction

Heat and Moisture Exchanger Filter (HMEF, Contra Angle) combines the efficiency of dedicated breathing filters with optimum moisture return.

Features:

- Low dead space, to minimize dangers associated with re-breathing carbon dioxide.
- Lightweight, to reduce additional heavy on the tracheal connection.
- Maximizes the humidity of inspired gases.
- ISO, CE&FDA 510K

A501-2-C

Parameters:

Description	Heat Moisture Exchanger Filter (HMEF, Contra Angle,Adult)
Humidity Output	31mg/H_2O @ VT 500ml
Filtration Efficiency	BFE 99.9-99.999％ VFE 99-99.99%
Resistance @ 30 LPM	<1.5cmH_2O, （BFE 99.999％, VFE 99.99%）
	<0.8cmH_2O, （BFE 99.9%, VFE 99%）
Resistance @ 60 LPM	<3.1cmH_2O, （BFE 99.999%, VFE 99.99%）
	<1.8 cmH_2O, （BFE 99.9%, VFE 99%）
Dead space	45ml
Tidal Volume Range	150-1500ml
Connections	22M/15F-22F/15M
Gas Monitoring Luer Port with retainer strap	Yes
Weight	26.5±3g

Heat Moisture Exchanger Filter (HMEF, Contra Angle)

REF	Specification	Package	Carton size	Shelf Life
A501-2-C Eco	Adult,BFE99.9%,VFE99%	100PCS /Carton	37.5×30×34.5cm	3 years
A501-2-C	Adult,BFE99.99%,VFE99.9%	100PCS /Carton	37.5×30×34.5cm	3 years
A501-2-C Pro	Adult,BFE99.999%,VFE99.99%	100PCS /Carton	37.5×30×34.5cm	3 years

Heat Moisture Exchanger Filter (Pediatric)

Introduction

Heat and Moisture Exchanger Filter (HMEF, Pediatric) combines the efficiency of dedicated breathing filters with optimum moisture return.

Features:

- Low dead space, to minimize dangers associated with re-breathing carbon dioxide.
- Lightweight, to reduce additional heavy on the tracheal connection.
- Maximizes the humidity of inspired gases.
- ISO, CE&FDA 510K

A501-4

Parameters:

Description	Heat Moisture Exchanger Filter (HMEF, Pediatric)
Humidity Output	31mg/H_2O @ VT 500ml
Filtration Efficiency	BFE 99.9-99.999 % VFE 99-99.99%
Resistance @ 20 LPM	<1.8cmH_2O, （BFE 99.999 %, VFE 99.99%）
	<1.0 cmH_2O, （BFE 99.9%, VFE 99%）
Dead space	20ml
Tidal Volume Range	150-300ml
Connections	22M/15F-22F/15M
Gas Monitoring Luer Port with retainer strap	Yes
Weight	16±3g

Heat Moisture Exchanger Filter (Pediatric)

REF	Specification	Package	Carton size	Shelf Life
A501-4 Eco	Pediatric,BFE99.9%,VFE99%	100PCS /Carton	37.5×30×34.5cm	3 years
A501-4	Pediatric,BFE99.99%,VFE99.9%	100PCS /Carton	37.5×30×34.5cm	3 years
A501-4 Pro	Pediatric,BFE99.999%,VFE99.99%	100PCS /Carton	37.5×30×34.5cm	3 years

Tracheotomy Filter

Introduction

To create an opening through the neck into the trachea. A tube is most often placed through this opening to provide an airway and to remove secretions from the lungs.

Moisture loss	13.2mg H_2O/L
Calculated moisture return	26 mg H_2O/L
Resistance at 10L/min	<5.4 cm H_2O
Dead Space	6 ml
Weight	7 g
Connectors	15F
Minimum tidal volume	>60ml

Tracheotomy Filter				
REF	Specification	Package	Carton size	Shelf Life
A501-7	Adult	200PCS /Carton	37.5×30×34.5cm	3 years

Absorbent of Carbon Dioxide (Soda Lime)

Introduction

Medical grade carbon dioxide absorbent which meets most clinical requirements and safety needs within anesthesia.

Features:

- Low Dust,Minimum dust levels with the benfits of high surface area and graded particle size.
- Low risk of carbon monoxide formation due to good resistance of dry gas desiccation.
- Low Bulk Density Less weight required to fill absorber and, therefore, less waste when refilling frequently (e.g., daily) prior to full exhaustion.
- Low odor due to reliable control of indicator dye concentration. Dye overdosing causes amines to be released; dye under dosing causes poor/no color change.

Ca(OH)2	＞75%
NaOH	≦4%
Granule hardness	≥ 99.0%
Moisture absorption	≦3%
Carbon dioxide absorption	≥26.0%
Shape	short cylindrical granule
Size(mm)	Φ3.0± 0.1 L4.0-7.0
Indicator	white to purple, pink to white

Absorbent of Carbon Dioxide (Soda Lime)

REF	Specifications	Package	Carton Size	G.W	Shelf Life
HS-SL01	White to Purple	4.5kg/barrel, 2 barrels/carton	30×20.5×33 cm	10 KG	3 years
HS-SL02	Pink to White	4.5kg/barrel, 2 barrels/carton	30×20.5×33 cm	10 KG	3 years

Disposable Laryngeal Mask Airway（Classic）

Introduction

A comprehensive range of laryngeal mask airways suitable for anesthesia and emergency medicine. All Hisern laryngeal mask airways are single use, latex free and are supplied sterile.

Disposable Laryngeal Mask Airway (Classic)					
REF		Size	Package	Carton size	Remark
Classic Type (PVC/Silicone)	DLM1.0	1.0	30PCS /Carton	38.5×37.5×32.5cm	3 years
	DLM1.5	1.5	30PCS /Carton	38.5×37.5×32.5cm	3 years
	DLM2.0	2.0	30PCS /Carton	38.5×37.5×32.5cm	3 years
	DLM2.5	2.5	30PCS /Carton	38.5×37.5×32.5cm	3 years
	DLM3.0	3.0	30PCS /Carton	38.5×37.5×32.5cm	3 years
	DLM4.0	4.0	30PCS /Carton	38.5×37.5×32.5cm	3 years
	DLM5.0	5.0	30PCS /Carton	38.5×37.5×32.5cm	3 years
Reinforced Type (Silicone)	DLM1.0F	1.0	30PCS /Carton	38.5×37.5×32.5cm	3 years
	DLM1.5F	1.5	30PCS /Carton	38.5×37.5×32.5cm	3 years
	DLM2.0F	2.0	30PCS /Carton	38.5×37.5×32.5cm	3 years
	DLM2.5F	2.5	30PCS /Carton	38.5×37.5×32.5cm	3 years
	DLM3.0F	3.0	30PCS /Carton	38.5×37.5×32.5cm	3 years
	DLM4.0F	4.0	30PCS /Carton	38.5×37.5×32.5cm	3 years
	DLM5.0F	5.0	20PCS /Carton	38.5×37.5×32.5cm	3 years

Disposable Laryngeal Mask Airway (Proseal)

Introduction

A comprehensive range of laryngeal mask airways suitable for anesthesia and emergency medicine. All Hisern laryngeal mask airways are single use, latex free and are supplied sterile.

Disposable Laryngeal Mask Airway (Proseal)				
REF	Size	Package	Carton size	Remark
Classic Type (Silicone) DLM1.0S	1.0	20PCS /Carton	55×29×31cm	3 years
DLM1.5S	1.5	20PCS /Carton	55×29×31cm	3 years
DLM2.0S	2.0	20PCS /Carton	55×29×31cm	3 years
DLM2.5S	2.5	20PCS /Carton	55×29×31cm	3 years
DLM3.0S	3.0	20PCS /Carton	55×29×31cm	3 years
DLM4.0S	4.0	20PCS /Carton	55×29×31cm	3 years
DLM5.0S	5.0	20PCS /Carton	55×29×31cm	3 years

Disposable Endotracheal Tube

Introduction

Designed for use in anesthesia, A&E and emergency medicine, Hisern Medical offers three varieties of ET tube: cuffed, uncuffed and reinforced, in a comprehensive range of sizes from pediatric to adult.

Features:

- Low-pressure cuff can keep it sealed in low pressure.
- The radio-opaque line can help to fix the position of tube.
- Two deep markers above cuff can point out the precise position of tube.

Disposable Endotracheal Tube

REF	Package	Carton size	G.W	Remark
QGCG-XXA	100PCS /Carton	38×23×33cm	Appro.2KG	Cuffed
QGCG-XXB	100PCS /Carton	38×23×33cm	Appro.2KG	Uncuffed

Remark: XXA from 3.0A to 10.0A; XXB from 3.0B to 10.0B;

Disposable Endotracheal Tube (Reinforced Type)

Introduction

Designed for use in anesthesia, A&E and emergency medicine, Hisern Medical offers three varieties of ET tube: cuffed, uncuffed and reinforced, in a comprehensive range of sizes from pediatric to adult.

Features:

- Metal-screw of the tube can keep it straight. Low-pressure cuff can keep it sealed in low pressure.
- The radio-opaque line can help to fix the position of tube.
- Two deep markers above cuff can point out the precise position of tube.
- Supplied sterile, individually packed, latex free and for single use.

Disposable Endotracheal Tube (Reinforced Type)

REF	Package	Carton size	G.W	Remark
RTI-XXA	100PCS /Carton	38×23×33cm	Appro.2.5-3KG	Cuffed
RTI-XXB	100PCS /Carton	38×23×33cm	Appro.2.5-3KG	Uncuffed

Remark: XXA from 3.0A to 10.0A; XXB from 3.0B to 10.0B;

Disposable Humidifying Oxygen Mask

Introduction

Suitable for patients requiring variable oxygen therapy with an aerosol of water particles.

Disposable Humidifying Oxygen Mask			
REF	Package	Carton size	Shelf Life
HS-MZ01S	100PCS /Carton	55×38×36cm	3 years
HS-MZ01M	100PCS /Carton	55×38×36cm	3 years
HS-MZ01L	100PCS /Carton	55×38×36cm	3 years
HS-MZ01XL	100PCS /Carton	55×38×36cm	3 years

Disposable Electrosurgical Pencil
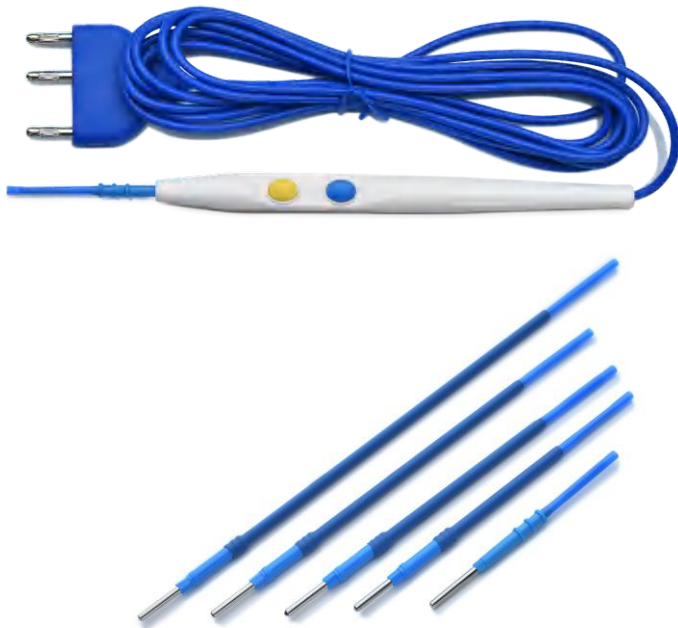
Introduction

Disposable Electrosurgical Pencils are used to fulgurate, coagulate, cut or dissect biological tissue by the applying electric current.

Features:

- Easy to clean
- Less smoke
- Light/weight and humanized skid-proof design makes the operator safer and comfortable during operation.
- ISO&CE.

Specification:

1. Length of ABS handle (mm):160mm
2. Length of stainless blade (mm):40mm,70mm, 80mm,120mm,140mm,160mm）
3. Diameter of blade: 2.3mm
4. Length of cable (m):3.0m

Disposable Electrosurgical Pencil				
REF	Description	Package	Carton size	Shelf Life
HEP4	4cm/blade	100PCS /Carton	41.5×30.5×41.5 cm	3 years
HEP7	7cm/blade	100PCS /Carton	41.5×30.5×41.5 cm	3 years
HEP8	8cm/blade	100PCS /Carton	41.5×30.5×41.5 cm	3 years
HEP12	12cm/blade	100PCS /Carton	41.5×30.5×41.5 cm	3 years
HEP14	14cm/blade	100PCS /Carton	41.5×30.5×41.5 cm	3 years
HEP16	16cm/blade	100PCS /Carton	41.5×30.5×41.5 cm	3 years

Disposable Patient Plate(Grounding Pad)

Introduction

Disposable patient plate for use with a radio-frequency ablation system generator, complete the electrical circuit between the patient and the electrosurgical generator.

Features:

The large size provides optimal safety for your patient.

Disposable Patient Plate(Grounding Pad)			
REF	Description	Package	Carton size
HPP111	Monopolar with cable , pediatric	100PCS /Carton	52×28×34cm
HPP121	monopolar without cable , pediatric	200PCS /Carton	32×28×34 cm
HPP112	monopolar with cable , adult,	100PCS /Carton	52×28×34cm
HPP122	monopolar without cable , adult	200PCS /Carton	32×28×34 cm
HPP211	bipolar with cable , pediatric	100PCS /Carton	52×28×34cm
HPP221	bipolar without cable , pediatric	200PCS /Carton	32×28×34 cm
HPP212	bipolar with cable, adult	100PCS /Carton	52×28×34cm
HPP222	bipolar without cable , adult	200PCS /Carton	32×28×34 cm

Video Laryngoscope

Introduction

A rigid laryngoscope with camera used for difficult and routine endotracheal tube intubations.

Features:

- Integrated handle, easy to hold operation.
- One click to open, quick start, runs immediately.
- 3-inch HD monitor displays vocal cord and glottis images clearly.
- Integrated formed and anodized aluminum alloy surface which is firm and wear-resistant.
- 90 degrees rotated screen, easy for observation and intubation.

Anesthesia Video Laryngoscope

REF	Package	Carton size	N.W	G.W	Remark
HS-VL01	1PC/Carton	28×13.5×24cm	0.3 KG	1.5 KG	3 years

Anesthesia Laryngoscope Blade

Introduction

Laryngoscope blades are used as the primary tool for examination of the interior of the larynx and for placement of an endotracheal tube

Features:

- Improved geometry simplify intubation .
- High-quality design from medical-grade.
- Medical Class ABS Material.

Anesthesia Laryngoscope Blade

REF	Description	Package	Carton size
HS-PT01	Bubble type,S	100PCS /Carton	40×25×26cm
HS-PT02	Bubble type,M	100PCS /Carton	40×25×26cm
HS-PT03	Bubble type,L	100PCS /Carton	40×25×26cm
HS-GX01	Fiber Optical,M	100PCS /Carton	40×25×26cm

Disposable Infusion Pump

Introduction

Provide medication at accurate continuous pre-fixed flow with additional bolus doses via patient controlled analgesia (PCA) module. Designed for systemic or regional preoperative and postoperative pain management therapy.

Features:

- A variety of capacity specifications to select.
- Medical silicon balloon, ensure the continuous and stable pressure release.
- The infusion tube is equipped with a precision medical liquid filter, which can effectively filter the particles that may exist in the medical liquid to ensure the safety of the patient's infusion.
- With a PCA device, the patient can dose based on the actual needs.
- Professional dosing device, easy to dose temporarily during use.

Disposable Infusion Pump				
Type	**REF**	**Package**	**Carton size**	**Shelf Life**
CBI-100	CBI-100ml	40 PCS /Carton	46.5×38×32.5cm	3 years

Disposable Skin Staple Remover

Introduction

- To provide fast and easy removal of different brands of surgical skin staples.
- Ergonomic design.
- Made of 100% Stainless Steel 304 according to AISI Standard.
- Sterilized by: EO.
- ISO, CE&FDA.

Disposable Skin Staple Remover					
REF	Material	Carton size	G.W	G.W	Shelf Life
A11001	304 Stainless Steel	1pc/blister pack, 320pcs/carton,	48×36×46.5cm	16 KG	3 years

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