



The Bridge to Good Health Care



Blood Management System

Caring for your Health

JMS designs up-to-date blood management products with our patients and donors in mind.



JMS's spirit of "Patient Comes First" aims to deliver quality products that offer better solutions to medical treatment. Our continuous innovation with expanding product development and high quality bridge our path to high standard of satisfaction.

Blood bag manufactured by JMS has a long and laudable reputation for reliability, superior product quality and assurance. Certified under EN ISO 13485 Quality System, our fastidious production practices and high standards of quality control are driven to ensure that our products meet the stringent requirements of blood banks and transfusion services which provide lifelines services to hospitals, patients and donors.

At JMS we believe in total quality commitment and care. This is our responsible management of blood products to ensure more effective use of precious blood resources for better health care in today's transfusion medicine.



JMS Complete Range of Products For Blood Management System

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“ The Bridge To
Good Health Care ”

Safe & Effective Blood Transfusion

Safety Comes First

Safety First. Our aim is not only to guarantee high quality of the blood components but also to provide maximum safety during blood donation and sample collection.



Convenience

JMS Integrated Blood Sampling Port

- Closed system & reusable blood sampling with vacuum tube

Reliability

JMS Blood Sampling Bag

- Storage container for convenient and contamination free sampling
- Volume of diverted blood could be used for laboratory testing

Safety

JMS Needle Protector

- Anti-stick device to provide healthcare workers and end-users maximum protection from needle stick injuries.

CPD-SAGM System

The Benefits

Superior red blood cell
viability for 42 days storage
with low hemolysis

Compatible
with most component
extractors

Increases
plasma yield

Platelet concentrate
storage up to 5 days



The most comprehensive system comprises of CPD anticoagulant solution and SAGM (saline-adenine-glucose-mannitol) additive solution. It has the flexibility to yield high quality blood and blood components such as platelet concentrates, plasma and red blood cells.

The system can extend high quality red blood cells up to 42 days while achieving more than 80% of post-transfusion RBC survival rate.

CPD-SAGM System

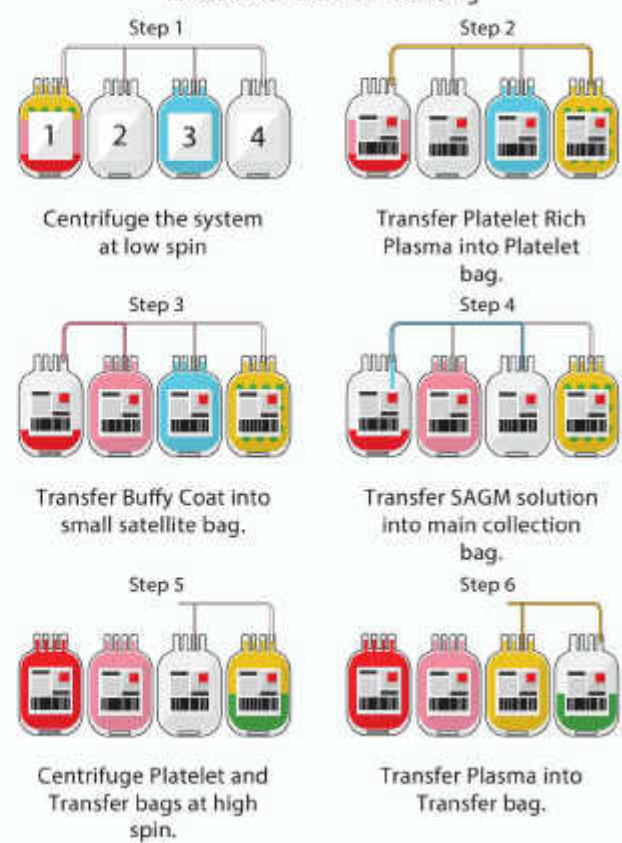
JMS CPD-SAGM Triple Blood Bag

Platelet Rich Plasma Processing



JMS CPD-SAGM Quadruple Blood Bag System

Platelet Rich Plasma Processing



JMS CPD-SAGM Quadruple Blood Bag System

Platelet Poor Plasma Processing



Red Blood Cells

Plasma

Platelet Rich Plasma

Platelet Concentrates

Buffy Coat

Additive Solutions

Transfer Bag

Top & Bottom Extraction System

(T-BEXS) with CPD-SAGM

JMS T-BEXS provides great efficiency and productivity in preparing blood components. The system reduces manual labour and increases yield while maintaining high quality blood components prepared from whole blood.



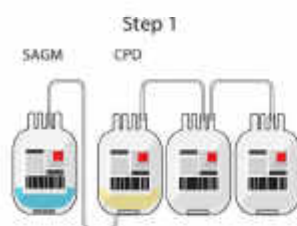
The Benefits

Compatible with most
commercial automatic extractors

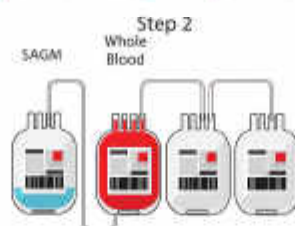
Reduces labour and
increases productivity

High efficiency
component preparation

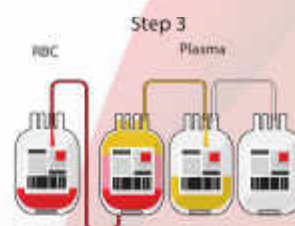
JMS Top & Bottom Quadruple Blood Bag System



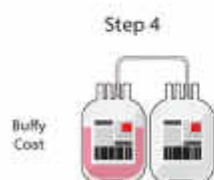
JMS Top & Bottom Blood Bag System



Whole blood is collected into main collection bag



After a high spin, Platelet Poor Plasma is transferred into Transfer Bag while RBC is collected in SAGM bag.



Buffy Coat rich in Platelet and Leukocytes is left in main collection bag.



Platelet Concentrate is transferred into Platelet storage bag With remaining RBC and leukocytes left in main collection bag.

- Red Blood Cells
- Plasma
- Platelet Rich Plasma
- Platelet Concentrates
- Buffy Coat
- Additive Solutions
- Transfer Bag

Whole Blood In-Line Leukocyte Reduction System



The Benefits

High Efficiency

Safe and consistent

Ease of Use

Collection, filtration and storage processes

Excellent Quality

Meets International requirements

Clinically Proven

Filtration performance with good efficacy

Clinical Performance

SN	PARAMETERS	WHOLE BLOOD HOLDING (2 – 24HRS)	WHOLE BLOOD HOLDING (UP TO 18HRS)
1	Storage Prior to Filtration	20 - 24°C	2 - 6°C
2	Filtration Time	Less than 30 mins	Less than 1 hour
3	Residual Leukocyte (per unit)	< 1.0 X 10 ⁶	< 1.0 X 10 ⁶
4	Hemolysis (after 42 days)	< 0.8%	< 0.8%
5	Hemoglobin (per unit)	≥ 43g	≥ 43g

Leukocyte reduction in blood component is important to reduce transfusion reactions such as non-hemolytic febrile transfusion reactions, transmission of leukocyte-borne virus, prevention of HLA alloimmunization and platelet refractoriness. Our complete blood bag system for whole blood filtration meets the EU standards and requirements for quality with efficient handling.

Note: Sepacell® is the trademark of Asahi Kasei Medical Co., Ltd.

Red Cell In-Line Leukocyte Reduction System

The Benefits

High Efficiency

Safe & Consistent

Excellent Performance

Compatible with various processing methods and connecting devices

Soft Housing Filter

Low breakage of blood bag and ease of handling for centrifugation



Clinical Performance

SN	PARAMETERS	WHOLE BLOOD HOLDING (2 - 24HRS)
1	Storage Prior to Filtration	20 - 24°C
2	Filtration Time	Less than 45 mins
3	Residual Leukocyte (per unit)	$< 1.0 \times 10^6$
4	Hemolysis (after 42 days)	$< 0.8\%$
5	Hemoglobin (per unit)	$\geq 40g$

In addition to Whole Blood In-Line Leukocyte Reduction System, the Red Cell In-Line Leukocyte Reduction System provides a safe, effective and convenient preparation of platelets, plasma and red cells. The system is coupled with high efficient leukocyte filtration that meets EU standards.

Note: Sepacell® is the trademark of Asahi Kasei Medical Co., Ltd.

Transfer Bag

The Benefits

Compatible with
sterile connecting devices

Different bag
sizes and volumes

ISO Compliance
design and performance



Provides convenience of transferring blood or blood components into multiple units. JMS Transfer Bag can be easily use for separation or distribution of blood components and compatible with most sterile connecting devices.

JMS Transfer Bag is designed to meet ISO requirements with optimum blood components storage efficiency. It comes in various bag sizes that allows small to big volumes transfer for intended clinical use.

Cord Blood Collection Set

The Benefits

Compatible with

sterile connecting device

Efficient Volume

Specially tailored volume

Maximise Collection

Single or double needles

Injection Port

Ease of injecting solution



JMS Cord Blood Bag is designed for collection of umbilical cord blood for subsequent processing and harvesting of stem cells. The cord blood bag system provides the quality and efficient ways of collection.

JMS Cord Blood Bag is easy to use and equips with basic or optional accessories to suit the needs of end users. 16G sampling needle ensures a good flow for smooth collection.

Cellaid Serum Collection Bag

The serum collection bag is for preparation of high quality growth factors from whole blood. The system contains platelet activation beads that helps the release of growth factors suitable for human cells growth.

Clinical Performance

GROWTH FACTOR	PDGF-BB	TGF- β 1	HGF
Serum	100%	100%	100%
Plasma	2.9%	7.4%	61.9%

The Benefits

Safe Design

Serum is prepared in a closed system

Rich in Growth Factors

Platelet activation beads accelerate whole blood coagulation and releases growth factors from platelets

Quick Preparation

Growth factors can be prepared within 1 hour from fresh whole blood



Deep Freezing Storage Bag (EVA)

Special material used for storage of stem cells from cord blood. It is designed with material suitable to withstand ultra-low temperature when kept in liquid nitrogen.

The Benefits

Convenient

Single and double compartment system

Long Storage

Special material for ultra-low temperature storage

Ease of Sampling

Individual sampling port reduces contamination



Apheresis Needle

Common Needles

The Benefits

Superior cannula design

Ultra-sharp needle reduces pain

Non-slip

wing grip

High quality

ISO manufacturing facility and
biocompatible silicone coating

Apheresis Needle with
Sampling Holder

JMS Apheresis needle is easy to use with emphasis of donor's comfort in mind. The state-of-art cannula provides a smooth and painless needle insertion during apheresis and reduces injury to donor.

Soft and positive locks wing offer great and precise gripping control and prevent accidental rotation during needle insertion. Rotating hub extends the flexibility to re-orientate the needle angle without disturbing the wing or increase the discomfort to donor.



Fixed Wing

Apheresis Needle

Safety Needles

The Benefits

Improves safety
in workplace

Fast and safe
needle withdrawal

Prevent accidental
needle-stick injury



Risk of acquired blood borne infections can be prevented with proper disposal of contaminated devices by adequate training. JMS aims for human safety by introducing safety devices that further reduce the risk of possible injury from the use of medical device.

JMS SysLoc™ and WingEater™ apheresis needles combine innovative engineering with high quality standard and economic balance bring upon an easy to use to achieve a peace of mind for both patient and healthcare worker.

Apheresis Needle

Common & Safety Needles

JMS Apheresis Needle is designed with donors' comfort in mind and incorporating safety in workplace for healthcare worker. Each needle is coated with biocompatible silicone fluid to ensure a smooth cannulation. Safety device is available for mitigating possible risk of needlestick injury in the workplace.

Fixed Wing



14G to 18G

for donors' comfort

High quality
needle design

SYSLOC™



Safety Device

Integrated Safety Wing

Activate by

Retracting needle and lock
in place

Adjust needle position

by easy rotation

WingEater™



Safety Device

External Safety Guard

Activate by

Folding wing and lock
upon retraction

Reduces needlestick risk

with simple and easy steps

Transfusion Therapy

The Benefits

ISO 1135-4
compliance

ISO 80369-7
compliance ensures
safe connection

18G super-thin
wall needle reduces pain

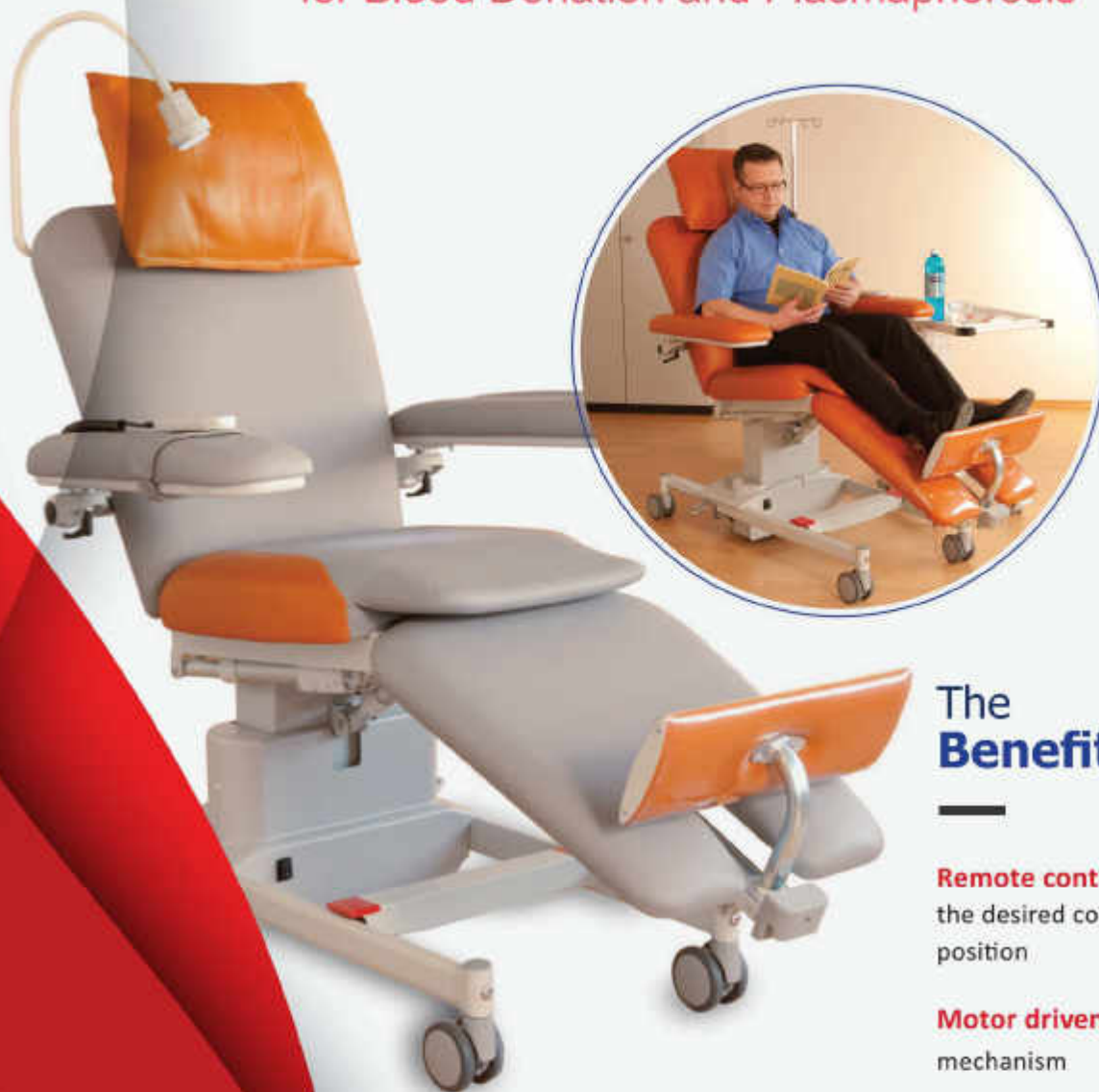
Double-drip chamber
provides ease of operation

Transfusion assemblies are essential devices for delivery of blood and blood components to patients via intravenous route. JMS Transfusion Set is compliance with ISO 1135-4 and ISO 80369-7 which ensures compatible with most blood bag system and provides secure connection.

Double drip chamber design ensures effective filtration of possible clot and other particulate debris and also provides clear observation of drops at the lower chamber. The assembly is supplied with 18G super-thin wall vein needle which reduces patient discomfort yet delivers good flow rate.

Transfusion Chair

for Blood Donation and Plasmapheresis



The Benefits

Remote control to adjust the desired comfortable position

Motor driven mechanism

Shock position is activated by foot pedal, handsfree from any side

The top model with five motors allows individual adjustment for highest comfort. Modern design with a high standard of design and functionality. A detailed finishing of the upholstery as well as mechanical and electrical parts provides high quality of comfort and safety to the users.

The desired sitting or lying position can be easily achieved with a remote control. The base frame with a safe load of 180 - 240kg provides high stability and ensures the donor feels safe.

Hemoscale

For Quality Blood



Good quality whole blood collection can be further enhanced with accurate blood collection volume and with sufficient mixing during collection. JMS Hemoscale monitors continuous blood flow and assures good mixing of blood with anticoagulant. The accurate volume and continuous mixing ensures blood components' quality, reduces losses and improves productivity.

Technical Specification

SPECIFICATIONS	MODEL	
Product	AB-20E	AB-30
Power	100 – 240 VAC	100 – 240 VAC
Consumption	Max 10 VA	Max 10 VA
Operating Hours on Battery	10 hours	12 hours
Mixing	16 cycles / min	16 cycles / min
Accuracy	< 1% of weight	< 1% of weight
Measuring Range	Up to 999 ml	Up to 999 ml
Data Connection & Storage	Not Available	Available
Compliance	EN 60601-1, EN 60601-1-2	
Dimension	290(L) x 253(W) x 185(H) mm	290(L) x 253(W) x 185(H) mm
Weight	4.4 kg (with battery)	4.4 kg (with battery)

HemoPress - Single

Automated Blood Component Extractor



The Benefits

8" Colour LCD
touch screen

IR Sensor
for level detection

Snap tip
auto-breaker

Stepper motor
precise press

Data Management
Software

The most efficient way of preparing blood components by reducing extensive manual labour and yield high quality blood components. Incorporates with a 8" color LCD touch screen for better control and visibility. High quality clamp designed to ensure tubes are in place during processing and reduces unnecessary errors. Slim profile with stepper motor driven press removes the need of compressor in conventional automated extractor. Strong support for data management via the connection of LAN or data retrieval from USB port.

HemoPress - Twin

Automated Blood Component Extractor



Technical Specification

SPECIFICATIONS	MODEL	
Product	HemoPress Single	HemoPress Twin
Model	MEDHPS1	MEDHPT1
Operating System	Windows	Windows
Press System	Step Motor Drive	Step Motor Drive
Display	8" Color LCD Touch Pad	8" Color LCD Touch Pad
Load Cell	3	6
Sensors in Array	8 (in 1 Array)	16 (in 2 Array)
Tube Detection	All 5 Clamps	All 10 Clamps
Snap Tip Auto Breaker	Main Bag and Additive Bag	Main Bag and Additive Bag (Both sides)
Data Connection	LAN & USB	LAN & USB
Data Management System	Available	
Compliance	IEC 60601 1, IEC 61010 1, IEC 60601 1 2, IEC 61326 1	
Dimension	350(L) x 465(W) x 483(H) mm	554(L) x 465(W) x 483(H) mm
Weight	26 kg	42 kg

Hemosealer



Heavy Duty Hemosealer – HS-03AA

- Heavy duty model
- Bench and ergonomic handle unit
- RF and auto time adjust sealing
- EN 60601 compliance



Portable Hemosealer – HS-21AA

- Ergonomic sealing handle
- Portable battery unit
- Improves mobility
- Safe and secure sealing
- RF and auto time adjust sealing
- EN 60601 compliance

JMS provides portable and heavy-duty models to suit customers' complex needs. JMS Hemosealer is designed with maximum flexibility that provides an easy, safe and secure tube sealing.

Ergonomic sealing handle provides great comfort and auto-adjust sealing time ensures consistent quality and output. The microprocessor in the Power Unit checks the tubing surface in order to avoid sparks. In addition, the safe sealing makes a 3mm wide seal with perforation, which makes it easier to pull the tubes apart. Automatic sealing time adjustment ensures every seal is in good condition with expected result.

High frequency sealing technology ensures a good hermetical seal and complying with EN 60601 to meet high standard of safety.

Blood Tubing Stripper

JMS has a strong focus in developing technological solutions for medical applications that includes designing and manufacturing of medical equipment. JMS HS-Series Blood Tubing Stripper offers a comprehensive range of performance with enhanced capabilities.

It is designed to strip, crimp and cut tubing for preparing blood segments blood bags. Tube segments can be prepared mechanically with the tube stripper and sealed with aluminum clip. The segments can be further separated by cutting between the seals with the aids of the side jaws of stripper.



Blood Tubing Stripper – HS002

- High Quality Aluminum Alloy
- Anti-rust, light weight and sturdy
- Ease of cleaning by wiping or soaking in IPA
- Ergonomic design for good grip and stripping
- Ease fatigue over prolong use
- Self-centering roller system keeps tubing in position
- Smooth traction for effective stripping of blood components
- Internal spring system keeps handles in open position
- Minimize entanglement with blood tubing.

Component Extractor

JMS BCE Series Component Extractor is designed to provide an easy option for expressing blood components from blood collection bag. The manual extractor is designed with stainless steel and thick acrylic suitable for daily operation with minimum maintenance.

The main bag is placed between the fixed stainless steel and movable plates, where the power spring load provides uniform pressure to transfer fluid into designated satellite bag(s). It provides an economical solution to users while achieving good quality.



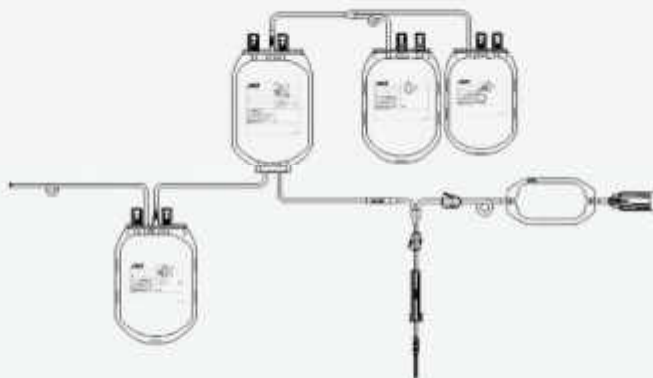
Component Extractor – BCE001

- Compatible with all makes of bags.
- Stainless Steel Construct
- Rust Free, Ease of Cleaning
- Thick Acrylic for Strength and Visibility
- Uniform Power Compression
- Constant Fluid Flow

Catalogue No. For Blood Bags

Example:

Blood Bag T&B CPD-SAGM(Q) 450+400MLX3 5DPC IBSP-NP-BSB-CLP 16G (DT)



93

Product Group

7

Solution

2

Type

34

Main Bag Capacity

4

No. of Bags

045

Collection Volume

27

Accessories

Category	Description	Code
Product Group	Transfer Bag: Transfer Bag, w/5DPC, w/ 5DPC TOTM	80, 81, 82
	Blood Bag: Blood Bag, w/5DPC, w/5DPC TOTM	90, 93, 94
	Filter: WBF, RCF, RCF w/5DPC, RCF w/5DPC TOTM	95, 92, 96, 97
	Platelet Filter: w/TOTM, w/Non-DEHP	98, 99
Solution	No Solution	0
	CPD: CPD, CPD-MAP, CPD-SAGM, CPD-AS1	1, 3, 7, 8
	CPDA-1	9
Type	T&T, T&B	1, 2
	Autologous	3
	Cord Blood, Cord Blood w/Twin DN	4, 5
	Plasmapheresis, Pediatric	6, 7
Main Bag Capacity	250ML, 350ML, 400ML, 450ML, 500ML, 560ML	04, 08, 12, 16, 20, 26
	620ML, 630ML, 650ML, 700ML, 1,000ML, 1,300ML	34, 36, 40, 48, 60, 65
No of Bags	Single – Decuple	1 – 0
Collection Volume	150ML, 157ML	015, 016
	200ML, 250ML	020, 025
	300ML, 350ML	030, 035
	400ML, 450ML, 475ML	040, 045, 047
	500ML	050
	600ML	060
	800ML, 850ML	080, 085
	1,000ML	100
	2,000ML	200
Accessories	Refer to Next Table	Table

Accessories Decoding

Needles		IBSP	BSB	NP	Clamp (CLP)	Dry Tube (DT)	Check Valve (CV)	Spike	Luer Lock	Accessory Code
16G	17G									
										00
•										01
•					•					10
•				•						11
•				•	•					12
•		•	•	•		•				13
•		•								16
•		•			•					17
•		•		•						18
•		•		•	•					19
•		•		•	•	•				20
•		•	•							21
•		•	•			•				22
•		•	•		•					23
•		•	•		•	•				24
•		•	•	•						25
•		•	•	•	•					26
•		•	•	•	•	•				27
•		•	•	•	•	•	•			28
•		•	•	•	•	•	•		•	29
	•									02
	•				•					30
	•			•						31
	•			•	•					32
	•	•								33
	•	•			•					34
	•	•		•						35
	•	•		•	•					36
	•	•	•			•				37
	•	•	•		•					38
	•	•	•		•	•				39
	•	•	•	•						40
	•	•	•	•		•				41
	•	•	•	•	•					42
	•	•	•	•	•	•				43
	•	•	•	•	•	•	•			44
	•	•	•							45
	•	•		•	•	•				46
									•	54
								1		57
								2		58
								7		61
								8		62
								10		64

Note: IBSP = Integrated Blood Sampling Port; BSB = Blood Sampling Bag; NP = Needle Protector



Global Market Leader

with worldwide distribution network

JMS Singapore is a global-oriented world class manufacturing plant, providing state-of-arts health care products in Blood Management, Infusion Therapy, Dialysis System, Equipment and Accessories.



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