

Volumat Lines

Infusion – Transfusion – Oncology –
Paediatric – Parenteral Nutrition



FRESENIUS KABI

caring for life



Health Care Professionals

Fresenius Kabi applies more than 40 years of experience in developing high quality infusion systems to support clinicians in reducing IV medication risks at the patient bedside.

Our Volumat Lines are specifically designed for the Agilia VP MC infusion pumps. The Agilia VP MC pumps and sets integrate advanced pumping mechanisms, to aid in accurate delivery of fluid in the clinical area.

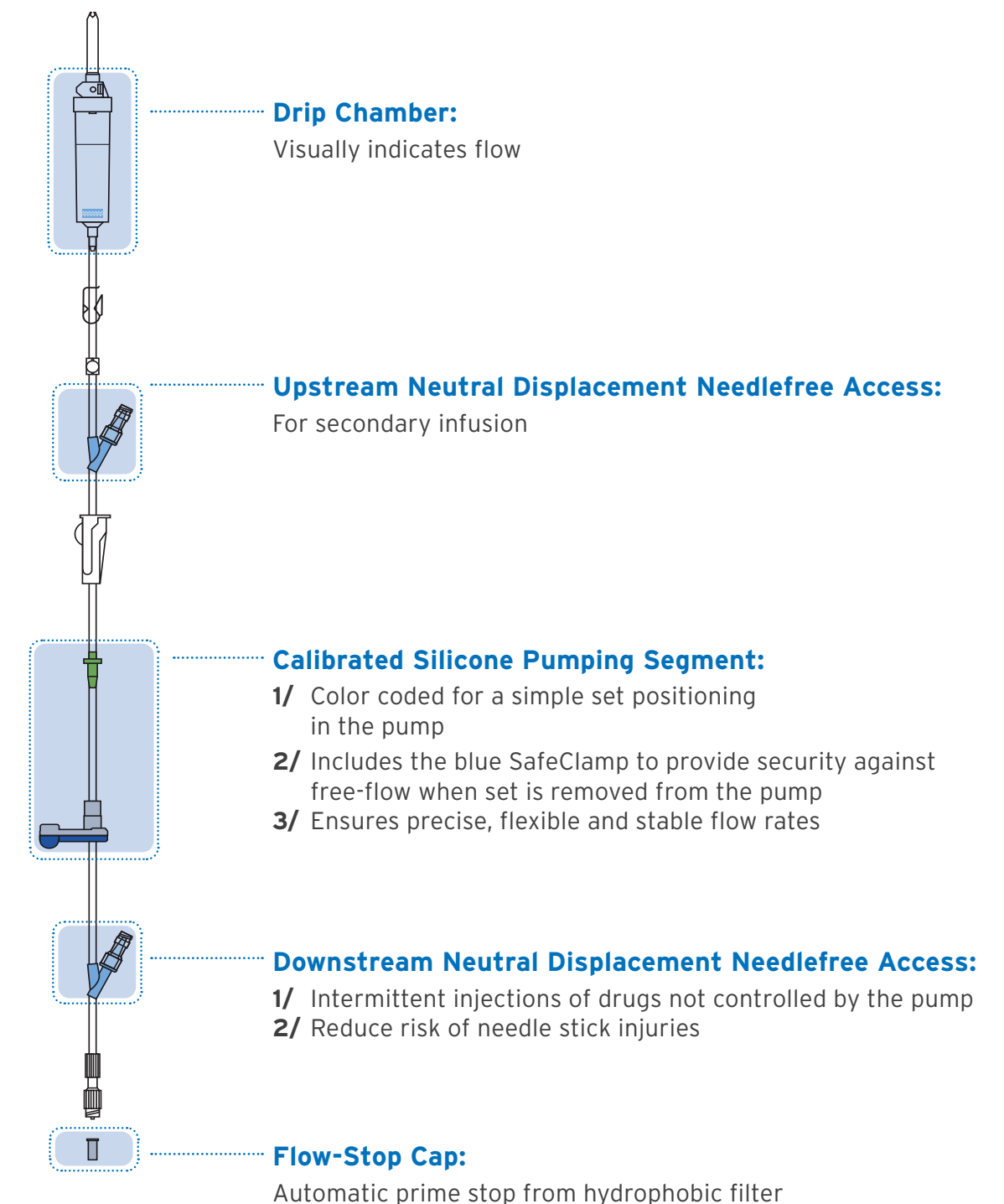
Like all Agilia devices, the Agilia VP MC pumps and sets are intuitive to use.

Volumat Lines

available features



→ Dedicated pump set



DEHP*: di-(2-ethylhexyl) phthalate.
In accordance with EU Regulation (EC) 1907/2006 (REACH) containing not more than 0.1 % (w/w) DEHP.



Volumat Lines



Standard & Primary Sets13

- Standard sets are designed for infusion of drugs or solution
- Primary sets are equipped with upstream needle-free access enabling the connection of secondary sets for Secondary Infusion

Oncology Sets17

- Equipped with upper needle-free or side lines
- Certain oncology sets have special filter or materials

Transfusion Sets22

- Equipped with 200 µm filter allowing blood products to be administered
- *Note: Blood products should only be administered with transfusion sets*

Paediatric Sets26

- Equipped either with low diameter tube to limit the priming volume, or with burette to deliver a defined volume
- *Note: Standard sets may be suitable for paediatric purposes in many situations*

Parenteral Nutrition Sets28

- Equipped with 1.2 µm filter enabling filtration of solutions containing lipid solutions
- *Note: When filtration of parenteral nutrition is not required, other standard infusion sets may also be suitable*

Special Sets29

- Use special material or have a special configuration to allow infusion of certain drugs

Secondary Sets32

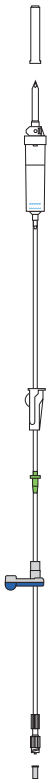
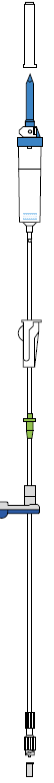
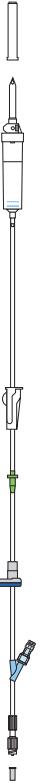




- Short lines, designed to be attached to primary sets

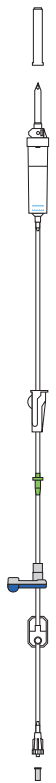
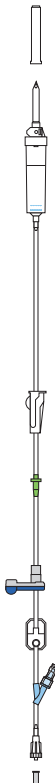






Additional Information37

Parenteral
Nutrition Sets

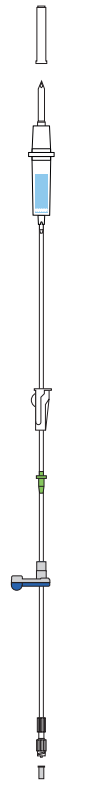
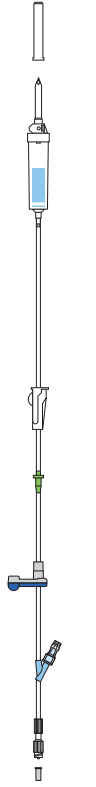
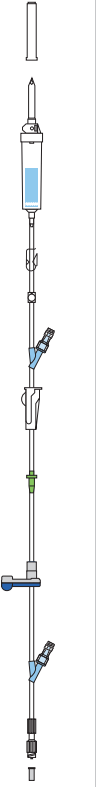
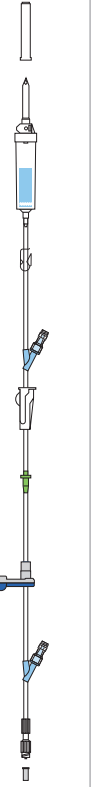
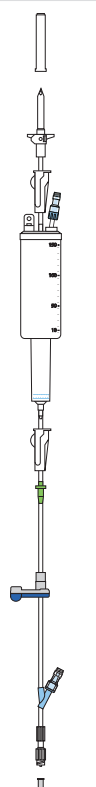
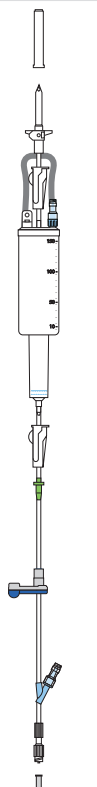
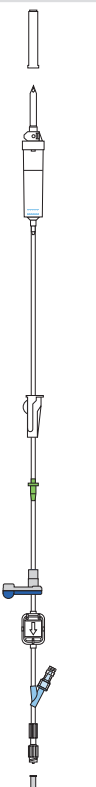
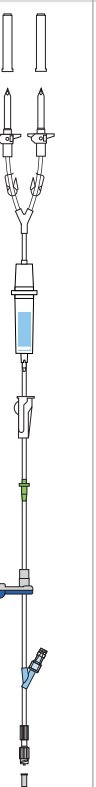
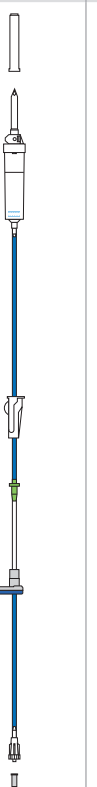
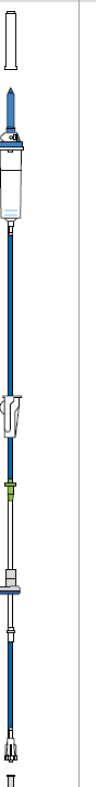

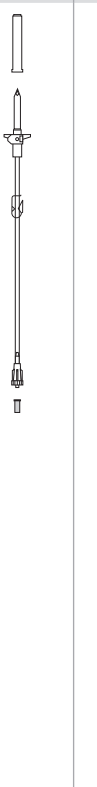


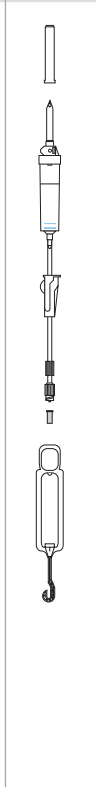

* DEHP as plasticiser is not used

Due to our policy of continious product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.

STANDARD AND PRIMARY SETS							
DESIGNATION	VL ST10	VL ST10 AIRBLOCK	VL ST02	VL ST02 AIRBLOCK	VL ST02 ND	VL ST22	VL ST22 AIRBLOCK
ARTICLE REFERENCE	M46441300S	M4661320	M46441900Y	M46441920Y	M46441980Y	M46442500Y	M46442520Y
APPLICATION	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion
							
SPIKE Vented / Non-vented/ freeflex®							
DRIP CHAMBER n Inline	15 µm filter	4 µm filter	15 µm filter	4 µm filter	no liquid filter	15 µm filter	4 µm filter
ROBERTS CLAMP ▲ Upstream / ▼ Downstream					▼	▲	▲
ONE-WAY CHECK VALVE							
NEEDLE-FREE ACCESS ▲ Upstream / ▼ Downstream			▼		▼	▲▼	▲▼
ROLLER CLAMP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ANTI-BACTERIAL / AIR ELIMINATING FILTER							
3-WAY-STOPCOCK							
INJECTION SITE							
ROTATING MALE LUER LOCK	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FLOW-STOP CAP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PRIMING VOLUME	~25 ml	~25 ml	~25 ml	~25 ml	~25 ml	~25 ml	~25 ml
LENGTH DOWNSTREAM	~170 cm	~170 cm	~170 cm	~170 cm	~170 cm	~170 cm	~170 cm
APPROXIMATE SET LENGTH	~285 cm	~285 cm	~285 cm	~285 cm	~285 cm	~285 cm	~285 cm
MAIN MATERIALS	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE
	PAGE 13	PAGE 13	PAGE 14	PAGE 14	PAGE 15	PAGE 16	PAGE 16

ONCOLOGY SETS								
DESIGNATION	0.2 µm FILTER			LIGHT PROTECTED SETS				
	VL ON70	VL ON72	VL ON72 AIRBLOCK	VL ON90	VL ON22 OP NF	VL ON22 OP NF AIRBLOCK	VL ON42 OP NF	VL ON42 OP NF AIRBLOCK
ARTICLE REFERENCE	M46444600S	M46444100Y	M46444810	M46444900S	M46444235Y	M46444234	M46444085Y	M46444084
APPLICATION	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion
								
SPIKE Vented / Non-vented/ freeflex®								
DRIP CHAMBER n Inline	15 µm filter	15 µm filter	4 µm filter	15 µm filter	15 µm filter	4 µm filter	15 µm filter	4 µm filter
ROBERTS CLAMP ▲ Upstream / ▼ Downstream				▲	▲▼	▲▼	▲▼	▲▼
ONE-WAY CHECK VALVE								
NEEDLE-FREE ACCESS ▲ Upstream / ▼ Downstream		▼	▼		▲▲▼	▲▲▼	▲▲▲▼	▲▲▲▼
ROLLER CLAMP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ANTI-BACTERIAL / AIR ELIMINATING FILTER	<input checked="" type="checkbox"/> 0.2 µm filter	<input checked="" type="checkbox"/> 0.2 µm filter	<input checked="" type="checkbox"/> 0.2 µm filter					
3-WAY-STOPCOCK								
ROTATING MALE LUER LOCK								
FLOW-STOP CAP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PRIMING VOLUME	~25 ml	~25 ml	~25 ml	~25 ml	~24 ml	~24 ml	~25 ml	~25 ml
LENGTH DOWNSTREAM	~170 cm	~180 cm	~180 cm	~160 cm	~150 cm	~150 cm	~150 cm	~150 cm
APPROXIMATE SET LENGTH	~285 cm	~270 cm	~270 cm	~285 cm	~265 cm	~265 cm	~275 cm	~275 cm
MAIN MATERIALS	PUR, PP, SILICONE	PUR, PP, SILICONE	PUR, PP, SILICONE	PUR, PP, SILICONE	PUR, PP, SILICONE	PUR, PP, SILICONE	PUR, PP, SILICONE	PUR, PP, SILICONE
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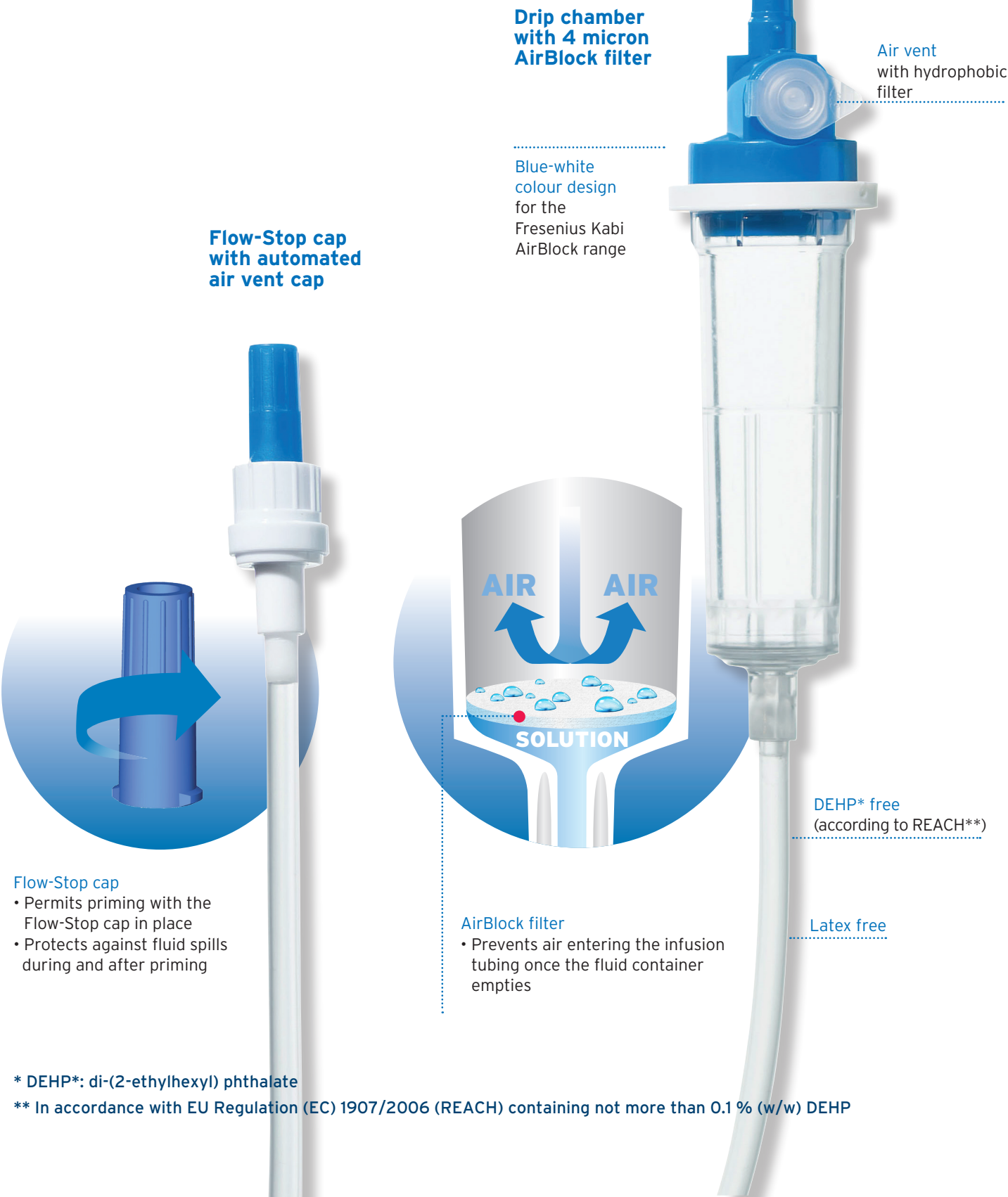


	TRANSFUSION SETS 200 µm FILTER				PAEDIATRIC SETS BURETTE SETS		PARENTERAL NUTRITION SET 12 µm FILTER	200 µm FILTER	SPECIAL SETS LIGHT PROTECTED TUBING			SECONDARY SETS				
DESIGNATION	VL TR00	VL TR12	VL TR42	VL TR43	VL PA93	VL PA94	VL PNO2	VL SP22	VL SP90	VL SP90	VL SP92	SL	SL Filter	SL FX Filter	SL 20 FX ND	SL 00 DC
ARTICLE REFERENCE	M46442800S	M46442700Y	M46442900Y	M46444500Y	M46443800Y	M46445300Y	M46444400Y	M46443100Y	M46443500S	M46443510	M46443600Y	M77460020	M77460025	M77460026	M77460033	M77460037
APPLICATION	Transfusion	Transfusion	Infusion and Transfusion	Infusion and Transfusion	Infusion	Infusion	Infusion	Infusion and Transfusion	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion
																
SPIKE Vented / Non-vented / <i>freeflex®</i>														<i>freeflex®</i>	<i>freeflex®</i>	
DRIP CHAMBER n Inline	200 µm filter	200 µm filter	200 µm filter	200 µm filter	150 ml burette 15 µm filter	150 ml burette 15 µm filter	15 µm filter	200 µm filter	15 µm filter	15 µm filter	15 µm filter				no liquid filter	15 µm filter
ROBERTS CLAMP ▲ Upstream / ▼ Downstream			▲	▲				▲▲				▲	▲	▲		
ONE-WAY CHECK VALVE			☑													
NEEDLE-FREE ACCESS ▲ Upstream / ▼ Downstream		▼	▲▼	▲▼	▲▼	▲▼	▼	▼			▼					
ROLLER CLAMP	☑	☑	☑	☑	☑ (2)	☑ (2)	☑	☑	☑	☑	☑				☑	☑
ANTI-BACTERIAL / AIR ELIMINATING FILTER							☑ 1.2 µm filter						☑ 0.2 µm filter	☑ 0.2 µm filter		
3-WAY-STOPCOCK																
INJECTION SITE																
ROTATING MALE LUER LOCK	☑	☑	☑	☑	☑	☑	☑	☑							☑	☑
FLOW-STOP CAP	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
PRIMING VOLUME	~25 ml	~25 ml	~25 ml	~25 ml	~25 ml	~25 ml	~25 ml	~30 ml	~25 ml	~25 ml	~25 ml	~2 ml	~5 ml	~7 ml	~10 ml	~12 ml
LENGTH DOWNSTREAM	~170 cm	~170 cm	~170 cm	~170 cm	~170 cm	~170 cm	~180 cm	~170 cm	~170 cm	~170 cm	~180 cm					
APPROXIMATE SET LENGTH	~285 cm	~270 cm	~270 cm	~270 cm	~300 cm	~300 cm	~290 cm	~290 cm	~270 cm	~270 cm	~270 cm	~38 cm	~48 cm	~78 cm	~65 cm	~85 cm
MAIN MATERIALS	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PUR, PP, SILICONE	PUR, PP, SILICONE	PUR, PP, SILICONE	PUR	PUR	PUR	PUR	PVC
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Volumat Lines AirBlock

AirBlock permits an optimised workflow for infusion therapy, minimising the risks posed by air entering the tubing.



* DEHP*: di-(2-ethylhexyl) phthalate

** In accordance with EU Regulation (EC) 1907/2006 (REACH) containing not more than 0.1 % (w/w) DEHP

Standard and Primary Sets

VL ST10

ref. M46441300s
ref. Airblock M4661320

Approximate set length:
285 cm

Approximate priming volume:
25 ml

Main materials:
PVC (tubing: diameter 3.0 x 4.1 mm)
Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP free
- Latex free

Packaging

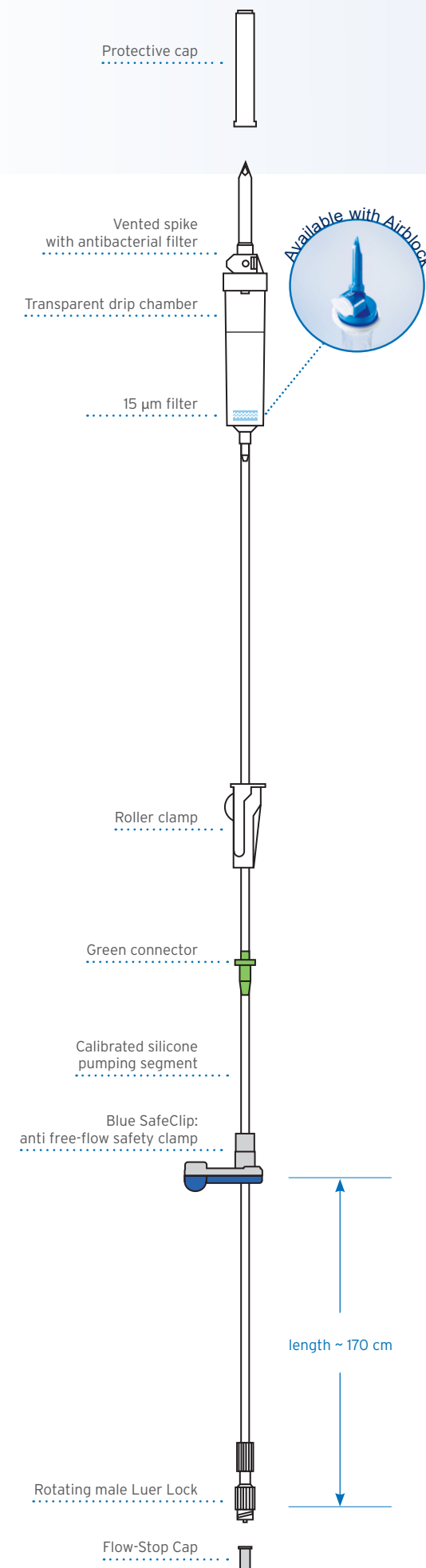
- Case quantity: 30 x 1

Typical applications

- Infusion of drugs / fluids
 - having no particular filtration requirements
 - available in bags or bottles
 - having no particular incompatibility

Not to be used for / in

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. glyceryl trinitrate, isosorbide dinitrate, sodium nitroprusside)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Manual primary / secondary or automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC



Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.

Standard and Primary Sets

VL ST02

ref. M46441900Y
ref. Airblock M46441920Y

Approximate set length:

285 cm

Approximate priming volume:

25 ml

Main materials:

PVC (tubing: diameter 3.0 x 4.1 mm)

Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP free
- Latex free

Packaging

- Case quantity: 30 x 1

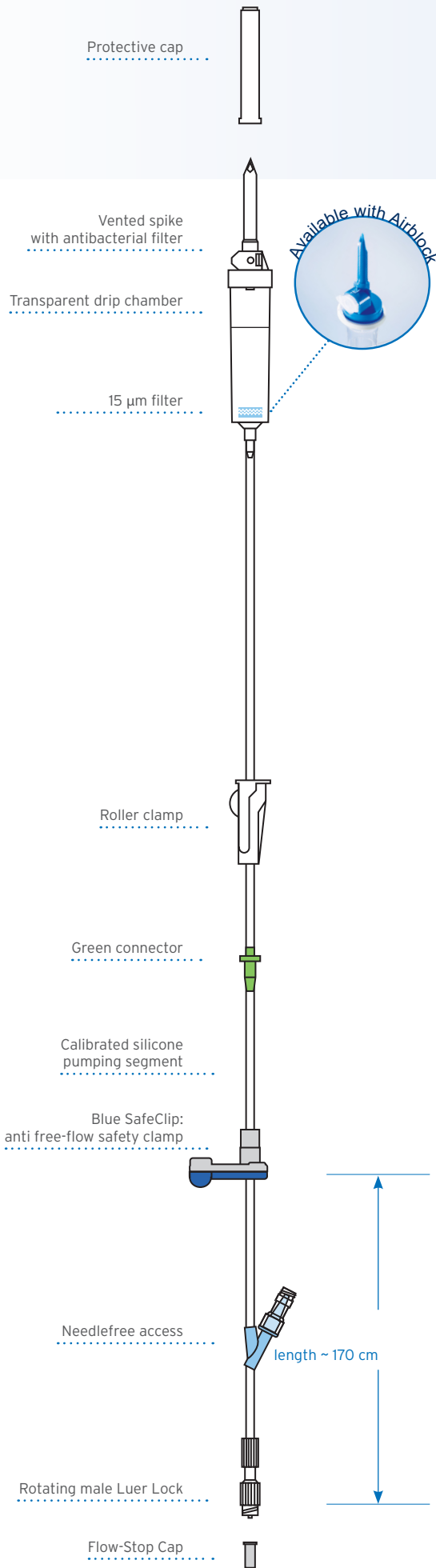
Typical applications

- Infusion of drugs / fluids
 - having no particular filtration requirements
 - available in bags or bottles
 - having no particular incompatibility

Not to be used for / in

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. glyceryl trinitrate, isosorbide dinitrate, sodium nitroprusside)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needlefree access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- Manual primary / secondary or automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC

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Filterless Set

VL ST02 ND

ref. M46441980Y

Approximate set length:

285 cm

Approximate priming volume:

25 ml

Main materials:

PVC (tubing: diameter 3.0 x 4.1 mm)

Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- No liquid filter in the drip chamber
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP free
- Latex free

Packaging

- Case quantity: 30 x 1

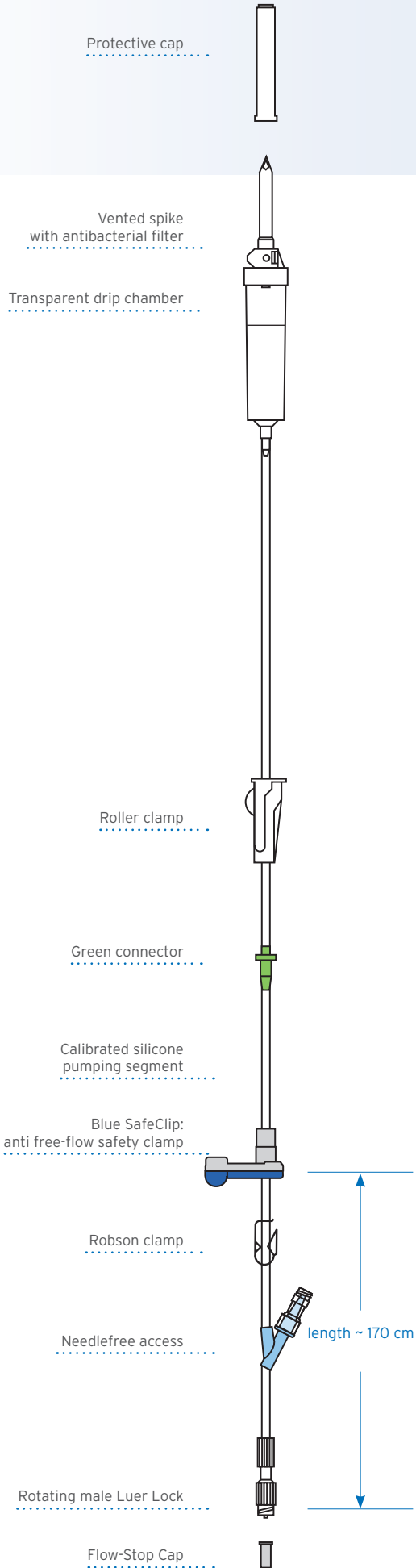
Typical applications

- Infusion of drugs / fluids
 - having no particular filtration requirements
 - available in bags or bottles (main line)
 - having no particular incompatibility

Not to be used for / in

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. glyceryl trinitrate, isosorbide dinitrate, sodium nitroprusside)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needlefree access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- Manual primary / secondary or automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC

Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.



Standard and Primary Sets

VL ST22

ref. M46442500Y
ref. Airblock M46442520Y

Approximate set length:

285 cm

Approximate priming volume:

25 ml

Main materials:

PVC (tubing: diameter 3.0 x 4.1 mm)

Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP free
- Latex free

Packaging

- Case quantity: 30 x 1

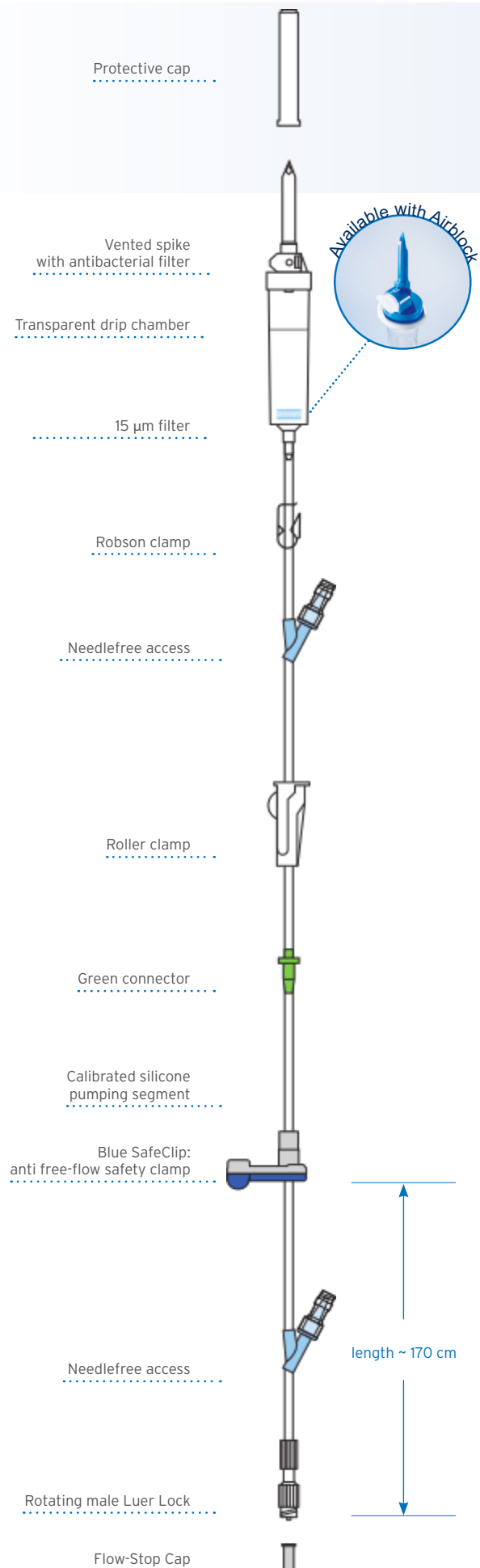
Typical applications

- Infusion of drugs / fluids
 - having no particular filtration requirements
 - available in bags or bottles
 - having no particular incompatibility
- Infusion of different drugs in the same set with use of Secondary Lines
- Manual primary / secondary mode with Volumat MC Agilia / Agilia VP MC

Not to be used for / in

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. glyceryl trinitrate, isosorbide dinitrate, sodium nitroprusside)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needlefree access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- Automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC

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0.2 µm Filter

VL ON70

ref. M46444600s

Approximate set length:

285 cm

Approximate priming volume:

25 ml

Main materials:

PUR (tubing: diameter 3.0 x 4.1 mm)

PP (tubing: diameter 2.94 x 4.02 mm)

Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- Provides additional protection against bacterial contamination
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC free
- DEHP free
- 0.2µm PES neutrally charged filter
- Latex free

Packaging

- Case quantity: 30 x 1

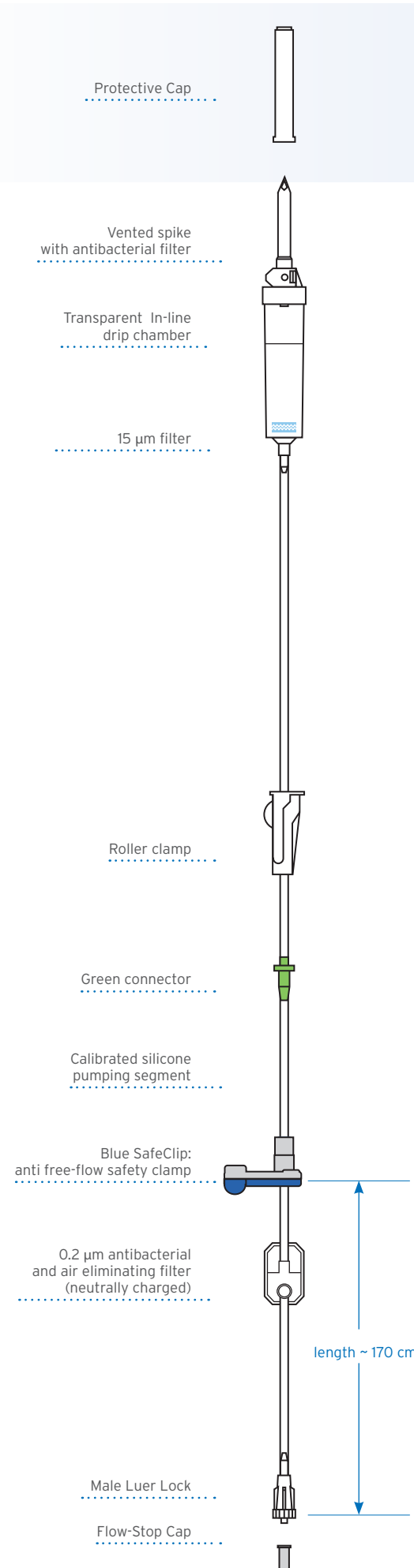
Typical applications

- Infusion of drugs requiring a 0.2 µm filter
- Infusion of drugs / fluids
 - available in bags or bottles
 - having no particular incompatibility
- Infusion of drugs not compatible with PVC

Not to be used for / in

- Blood cells
- Total parenteral nutrition and other lipid-containing solutions
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Manual primary / secondary or automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC

Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.



0.2 µm Filter

VL ON72

ref. M46444100Y
ref. Airblock M46444810

Approximate set length:

285 cm

Approximate priming volume:

25 ml

Main materials:

PUR (tubing: diameter 3.0 x 4.1 mm)

PP (tubing: diameter 2.94 x 4.02 mm)

Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- Provides additional protection against bacterial contamination
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC free
- DEHP free
- 0.2µm PES neutrally charged filter
- Latex free

Packaging

- Case quantity: 30 x 1

Typical applications

- Infusion of drugs requiring a 0.2 µm filter
- Infusion of drugs / fluids
 - available in bags or bottles
 - having no particular incompatibility
- Infusion of drugs not compatible with PVC

Not to be used for / in

- Blood cells
- Total parenteral nutrition and other lipid-containing solutions
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Manual primary / secondary or automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC

Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.

Light Protected Sets

VL ON90

ref. M46444900s

Approximate set length:

285 cm

Approximate priming volume:

25 ml

Main materials:

PUR (tubing: diameter 3.0 x 4.1 mm)

PP (tubing: diameter 2.94 x 4.02 mm)

Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- Protection for light sensitive drugs
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC free
- DEHP free
- Latex free

Packaging

- Case quantity: 30 x 1

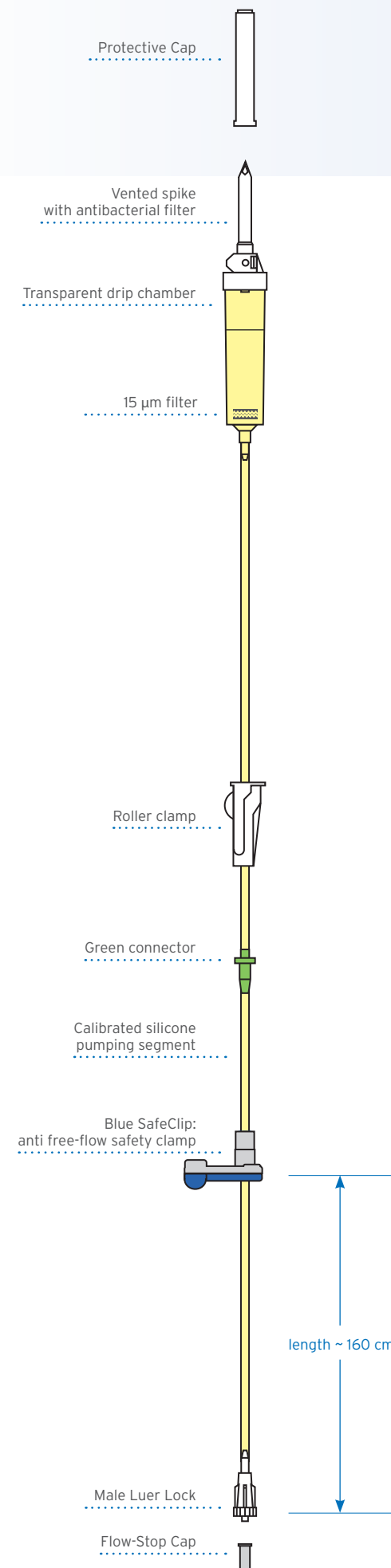
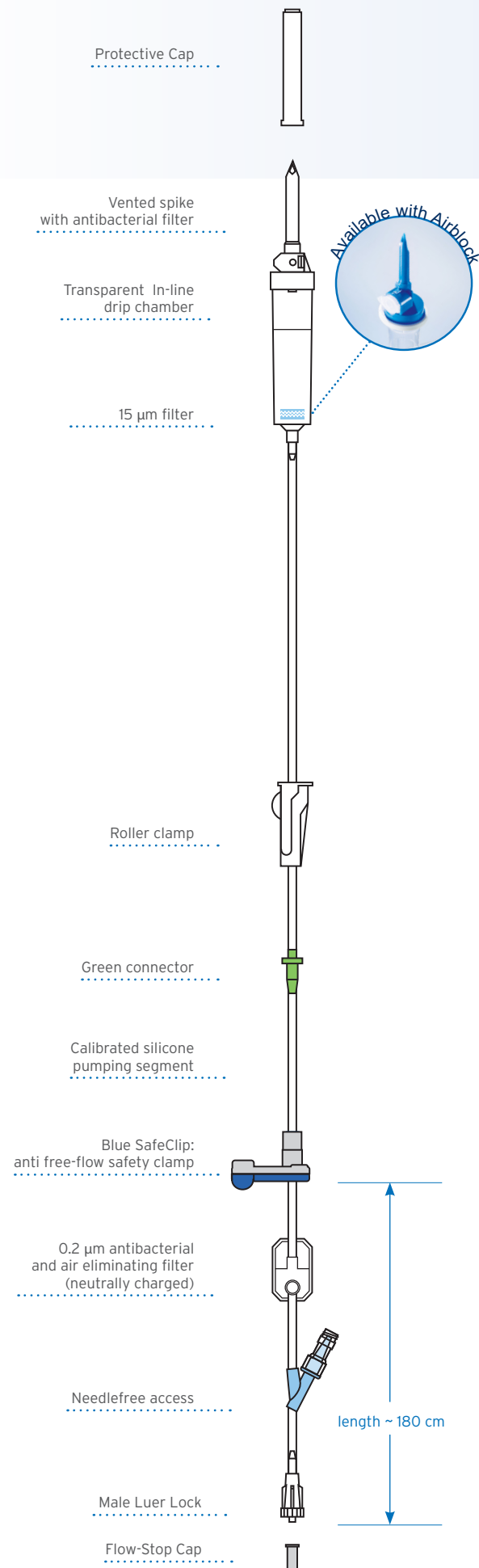
Typical applications

- Infusion of any drugs / fluids including light-sensitive drugs (including UV-sensitive drugs)
- Infusion of drugs / fluids
 - having no particular filtration requirements
 - available in bags or bottles
 - having no particular incompatibility
- Infusion of drugs not compatible with PVC

Not to be used for / in

- Blood cells
- Manual primary / secondary or automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC

Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.



VL ON22 OP NF

ref. M46444235Y
ref. Airblock M46444234

Approximate set length:

296 cm

Approximate priming volume:

27 ml

Main materials:

PUR (tubing: diameter 3.0 x 4.1 mm)
PP (tubing: diameter 2.94 x 4.02 mm)
Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- Protection for light sensitive drugs
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC free
- DEHP free
- Latex free

Packaging

- Case quantity: 30 x 1

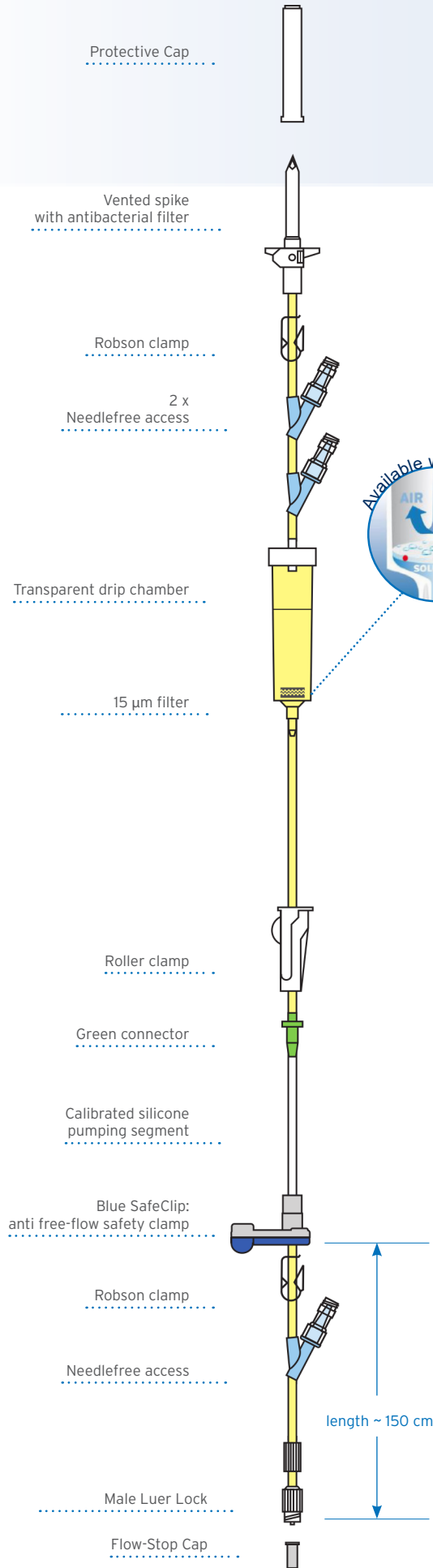
Typical applications

- Infusion of any drugs / fluids including light-sensitive drugs (including UV-sensitive drugs)
- Infusion of drugs / fluids
 - having no particular filtration requirements
 - available in bags or bottles
 - having no particular incompatibility
- Infusion of drugs not compatible with PVC
- Infusion of different drugs in the same set with use of Secondary Lines
- Manual primary / secondary mode with Volumat MC Agilia / Volumat MC Agilia VP MC

Not to be used for / in

- Blood cells
- Needlefree access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- Automatic primary / secondary mode with Volumat MC Agilia / Volumat MC Agilia VP MC

Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.



VL ON42 OP NF

ref. M46444085Y
ref. Airblock M46444084

Approximate set length:

312 cm

Approximate priming volume:

28 ml

Main materials:

PUR (tubing: diameter 3.0 x 4.1 mm)
PP (tubing: diameter 2.94 x 4.02 mm)
Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- Protection for light sensitive drugs
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC free
- DEHP free
- Latex free

Packaging

- Case quantity: 25 x 1

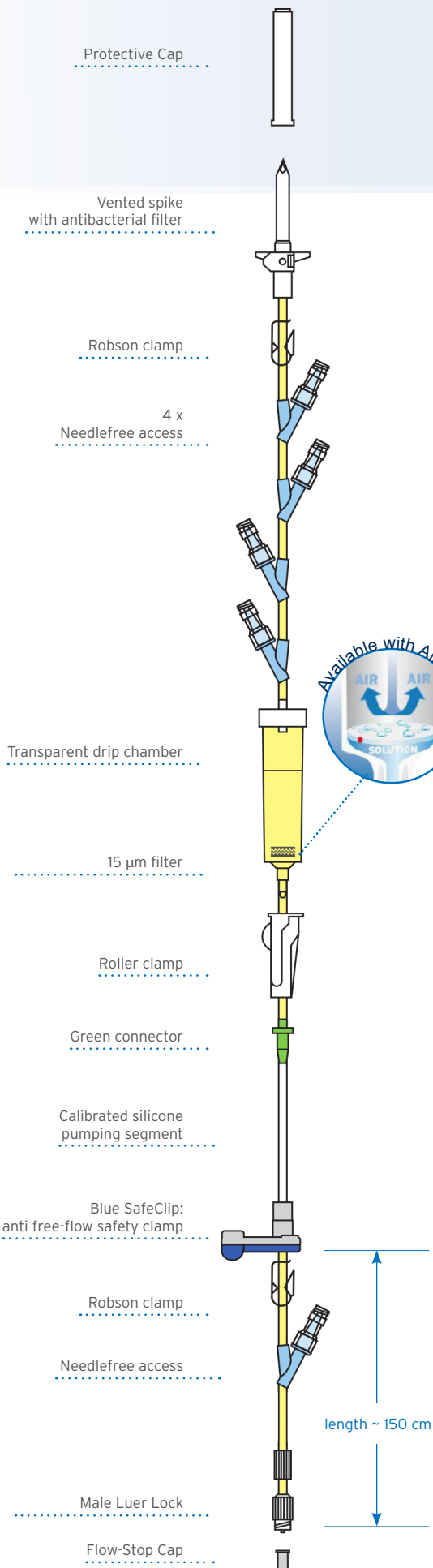
Typical applications

- Infusion of any drugs / fluids including light-sensitive drugs (including UV-sensitive drugs)
- Infusion of drugs / fluids
 - having no particular filtration requirements
 - available in bags or bottles
 - having no particular incompatibility
- Infusion of drugs not compatible with PVC
- Infusion of different drugs in the same set with use of Secondary Lines
- Manual primary / secondary mode with Volumat MC Agilia / Volumat MC Agilia VP MC

Not to be used for / in

- Blood cells
- Needlefree access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- Automatic primary / secondary mode with Volumat MC Agilia / Volumat MC Agilia VP MC

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VL TR00

ref. M46442800s

Approximate set length:

285 cm

Approximate priming volume:

25 ml

Main materials:

PVC (tubing: diameter 3.0 x 4.1 mm)

Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- 200 µm filter
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP free
- Latex free

Packaging

- Case quantity: 30 x 1

Typical applications

- Transfusion of blood products available in bags
- Can be used for infusion

Not to be used for / in

- Bottles
- Infusion of drugs known to be incompatible with PVC (e.g. glyceryl trinitrate, isosorbide dinitrate, sodium nitroprusside)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Manual primary / secondary or automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC

Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.

VL TR12

ref. M46442700Y

Approximate set length:

285 cm

Approximate priming volume:

25 ml

Main materials:

PVC (tubing: diameter 3.0 x 4.1 mm)

Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- 200 µm filter
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP free
- Latex free

Packaging

- Case quantity: 30 x 1

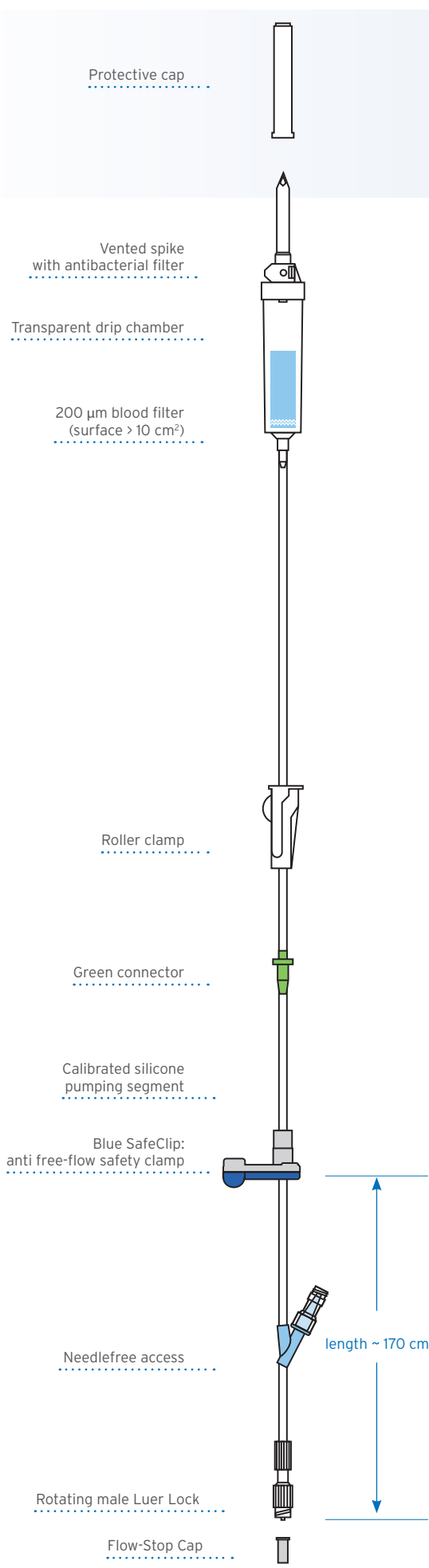
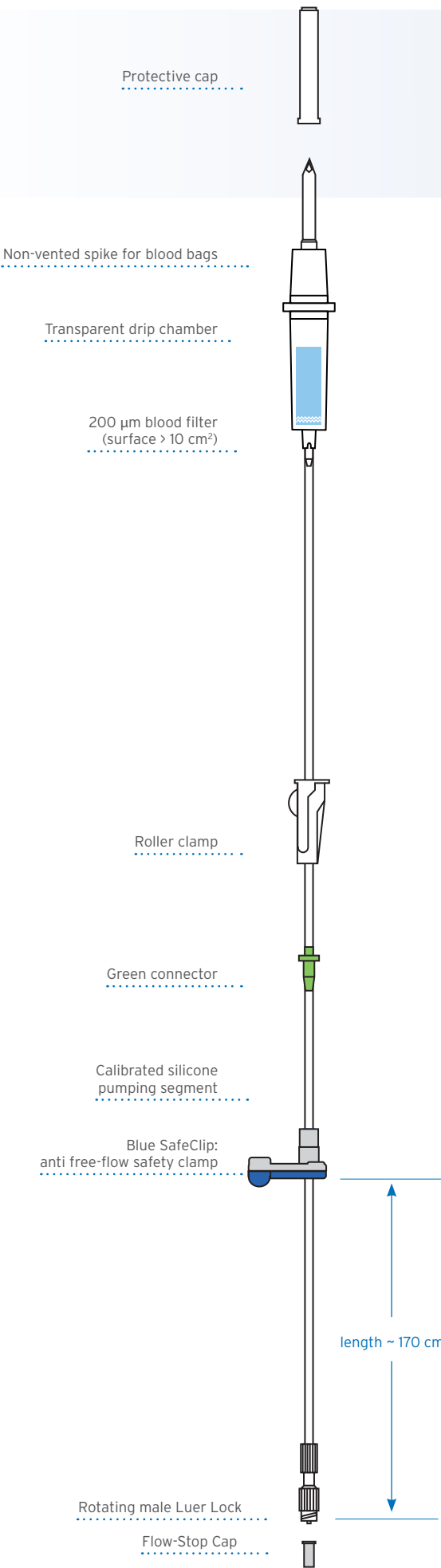
Typical applications

- Transfusion of blood products available in bags
- Can be used for infusion

Not to be used for / in

- Infusion of drugs known to be incompatible with PVC (e.g. glyceryl trinitrate, isosorbide dinitrate, sodium nitroprusside)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needlefree access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- Manual primary / secondary or automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC

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VL TR42

ref. M46442900Y

Approximate set length:

285 cm

Approximate priming volume:

25 ml

Main materials:

PVC (tubing: diameter 3.0 x 4.1 mm)

Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- 200 µm filter
- One-way check valve
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP free
- Latex free

Packaging

- Case quantity: 30 x 1

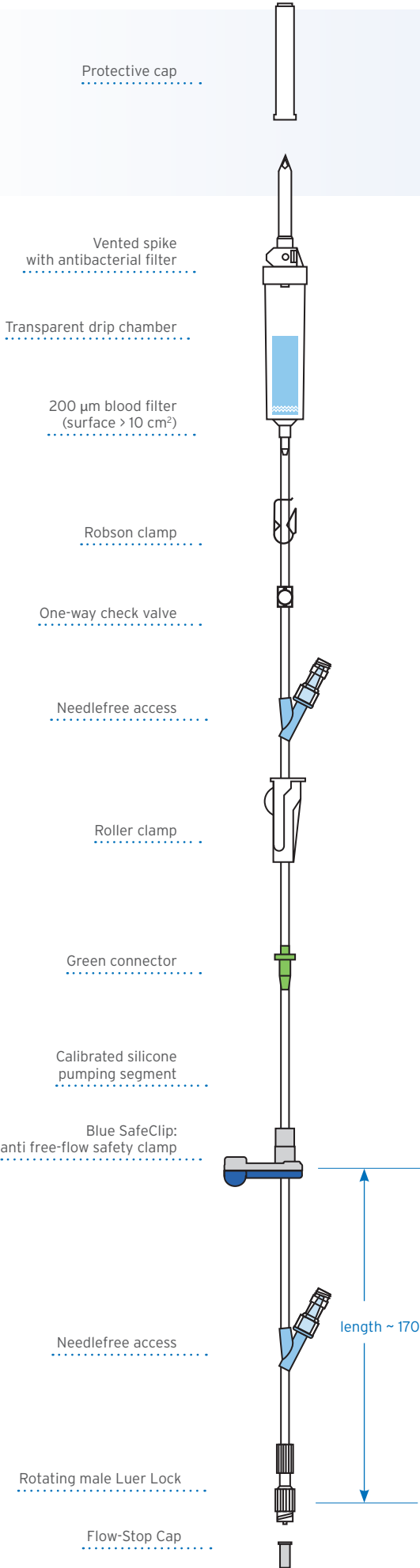
Typical applications

- Infusion of different drugs in the same set with use of Secondary Lines
- Manual primary / secondary mode with Volumat MC Agilia
- Automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC
- Transfusion of blood products available in bags
- Can be used for infusion

Not to be used for / in

- Infusion of drugs known to be incompatible with PVC (e.g. glyceryl trinitrate, isosorbide dinitrate, sodium nitroprusside)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needlefree access. Should not be used to connect a gravity line (unless it is protected by a back check valve)

Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.



VL TR43

ref. M46444500Y

Approximate set length:

285 cm

Approximate priming volume:

25 ml

Main materials:

PVC (tubing: diameter 3.0 x 4.1 mm)

Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- 200 µm filter
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP free
- Latex free

Packaging

- Case quantity: 30 x 1

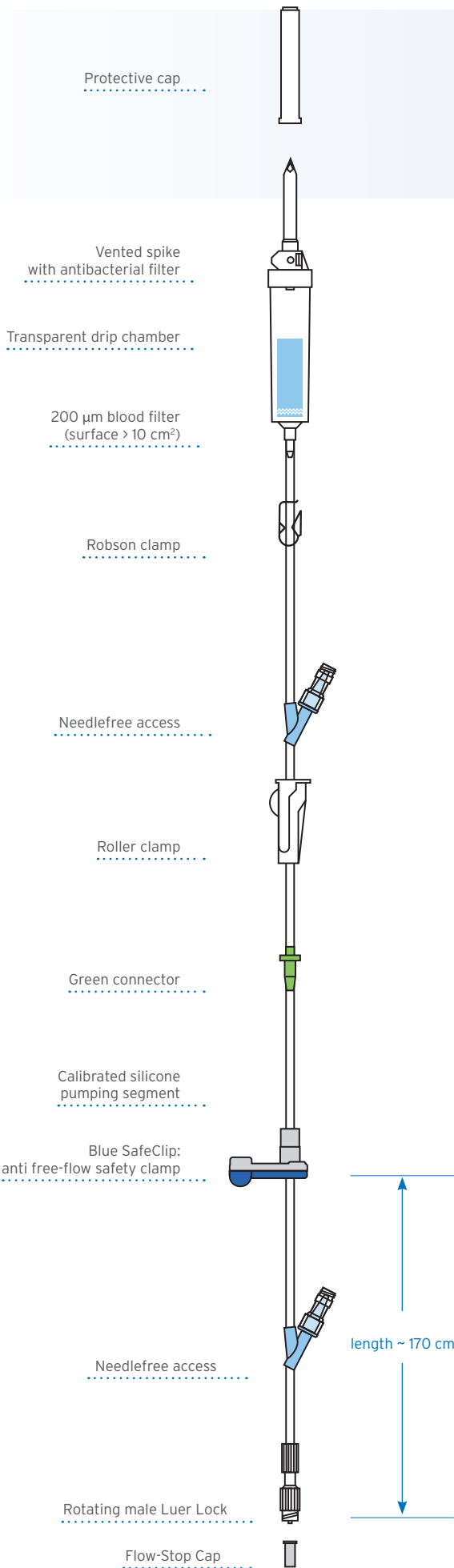
Typical applications

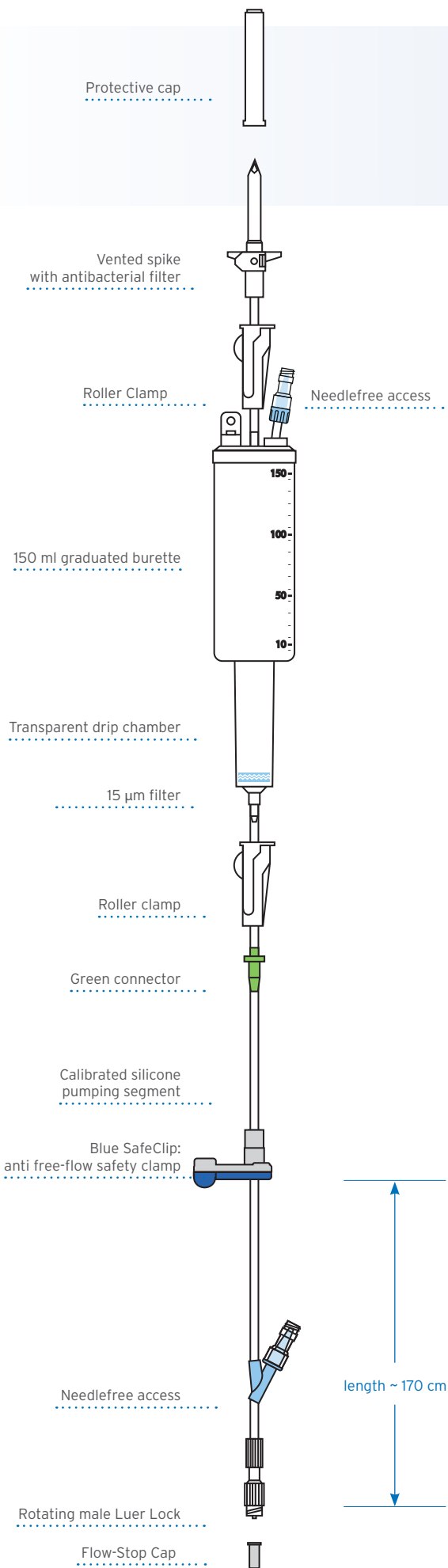
- Infusion of different drugs in the same set with use of Secondary Lines
- Manual primary / secondary mode with Volumat MC Agilia / Agilia VP MC
- Transfusion of blood products available in bags
- Can be used for infusion

Not to be used for / in

- Infusion of drugs known to be incompatible with PVC (e.g. glyceryl trinitrate, isosorbide dinitrate, sodium nitroprusside)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needlefree access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- Automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC

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Burette Sets

VL PA93

ref. M46443800Y

Approximate set length:

300 cm

Approximate priming volume

(without burette's volume):

25 ml

Main materials:

PVC (tubing: diameter 3.0 x 4.1 mm)

Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- Allows the infusion of a precisely known volume via 150 ml graduated burette
- Allows the mixing of different fluids / drugs in the burette
- 20 drops / ml
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP free
- Latex free

Packaging

- Case quantity: 10 x 1

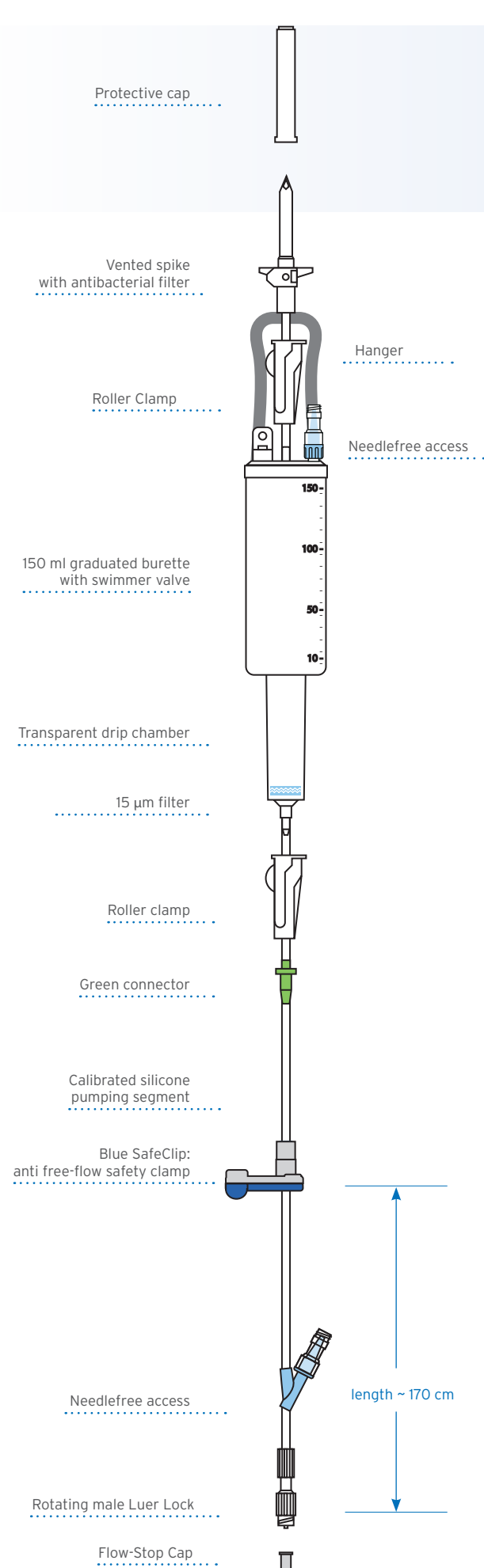
Typical applications

- Infusion of a precise volume out of a bag or bottle
- Mixing and adding of drugs into the burette
- Infusion of drugs / fluids
 - having no particular filtration requirements
 - available in bags or bottles
 - having no particular incompatibility

Not to be used for / in

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. glyceryl trinitrate, isosorbide dinitrate, sodium nitroprusside)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needlefree access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- Manual primary / secondary or automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC
- Not compatible with the optional drop sensor

Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.



Burette Sets

VL PA94

ref. M46445300Y

Approximate set length:

300 cm

Approximate priming volume

(without burette's volume):

25 ml

Main materials:

PVC (tubing: diameter 3.0 x 4.1 mm)

Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- Allows the infusion of a precisely known volume via 150 ml graduated burette with swimmer valve
- Allows the mixing of different fluids / drugs in the burette
- 60 drops / ml
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP free
- Latex free

Packaging

- Case quantity: 10 x 1

Typical applications

- Infusion of a precise volume out of a bag or bottle
- Mixing and adding of drugs into the burette
- Infusion of drugs / fluids
 - having no particular filtration requirements
 - available in bags or bottles
 - having no particular incompatibility

Not to be used for / in

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. glyceryl trinitrate, isosorbide dinitrate, sodium nitroprusside)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needlefree access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- Manual primary / secondary or automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC
- Not compatible with the optional drop sensor

Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.

Filter Lines 1.2 µm Filter

VL PN02

ref. M46444400Y

Approximate set length:
285 cm

Approximate priming volume:
25 ml

Main materials:
PVC (tubing: diameter 3.0 x 4.1 mm)
Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- Provides additional protection against bacterial contamination
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP free
- 1.2µm PES neutrally charged filter
- Latex free

Packaging

- Case quantity: 30 x 1

Typical applications

- Infusion of drugs / fluids
 - available in bags or bottles (main line)
 - having no particular incompatibility
- Infusion of drugs requiring a 1.2 µm filter
- Can be used for parenteral nutrition

Not to be used for / in

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. glyceryl trinitrate, isosorbide dinitrate, sodium nitroprusside)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Manual primary / secondary or automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC

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Double Spike 200 µm Filter

VL SP22

ref. M46443100Y

Approximate set length:
290 cm

Approximate priming volume:
30 ml

Main materials:
PVC (tubing: diameter 3.0 x 4.1 mm)
Silicone (tubing: diameter 3.41 x 5.11 mm)

Advantages

- 200 µm filter
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP free
- Latex free

Packaging

- Case quantity: 30 x 1

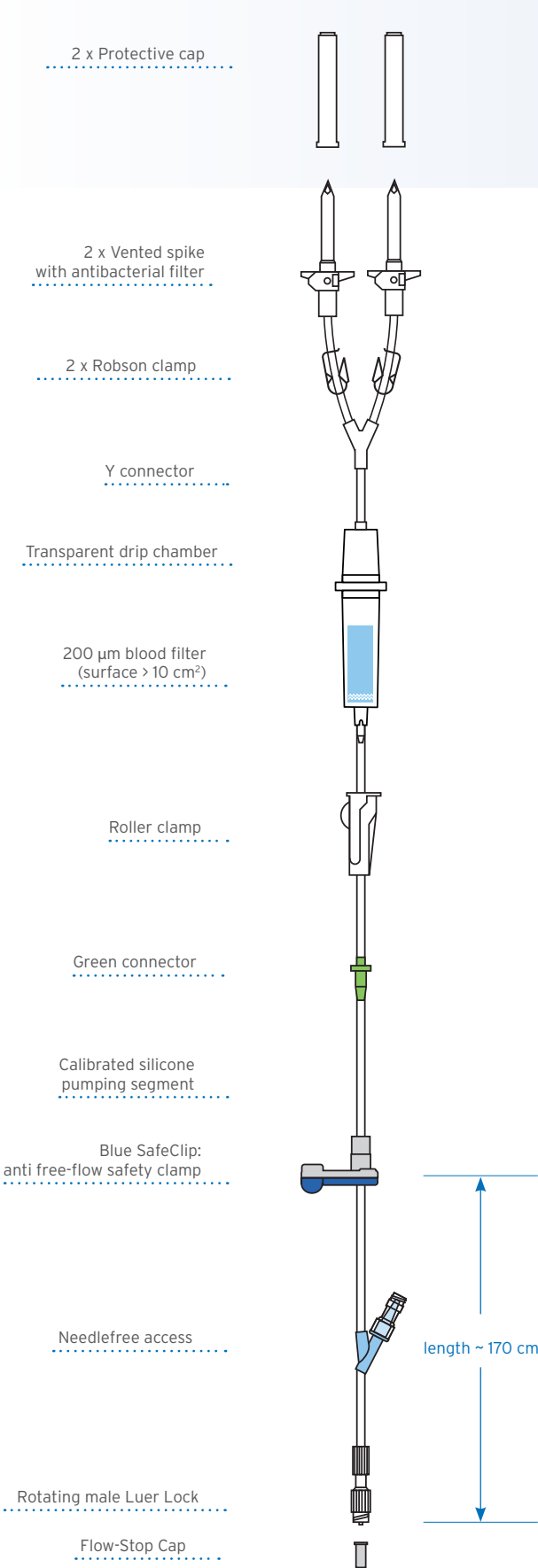
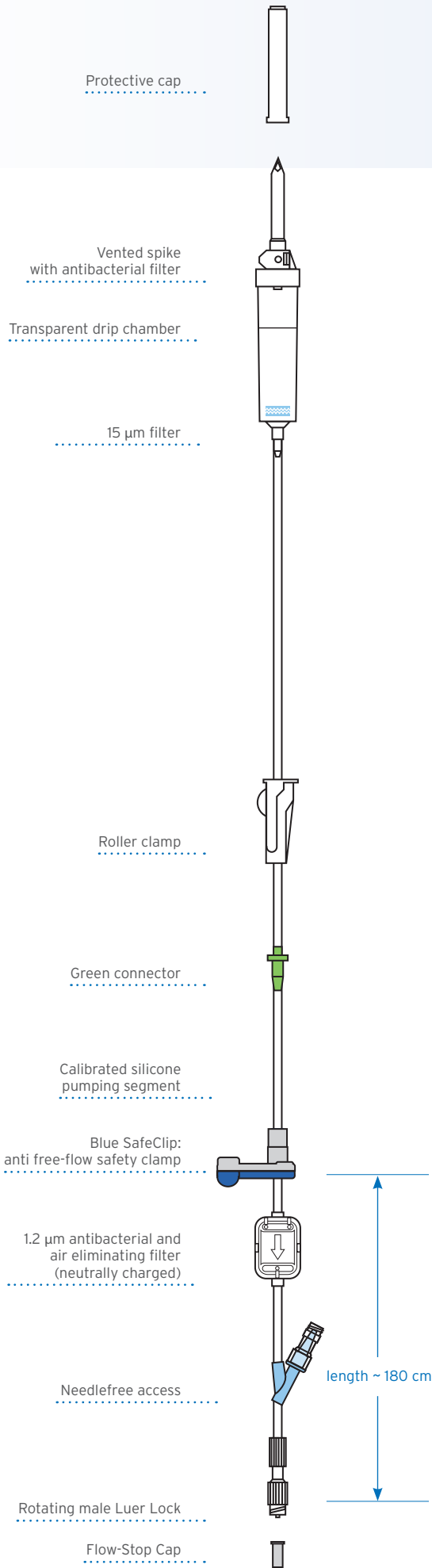
Typical applications

- Infusion of drugs / fluids
 - available in bags or bottles
 - having no particular incompatibility
- Transfusion of blood products available in bags
- Can be used for infusion
- Secondary infusions
- Manual primary / secondary mode with Volumat MC Agilia / Agilia VP MC

Not to be used for / in

- Infusion of drugs known to be incompatible with PVC (e.g. glyceryl trinitrate, isosorbide dinitrate, sodium nitroprusside)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needlefree access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- Automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC

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Light Protected Tubing

VL SP90

ref. M46443500s
ref. Airblock M46443510

Approximate set length:

285 cm

Approximate priming volume:

25 ml

Main materials:

PUR (tubing: diameter 3.0 x 4.1)
PP (tubing: diameter 2.94 x 4.02)
Silicone (tubing: diameter 3.41 x 5.11)

Advantages

- Protection for light sensitive drugs
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC free
- DEHP free
- Latex free

Packaging

- Case quantity: 30 x 1

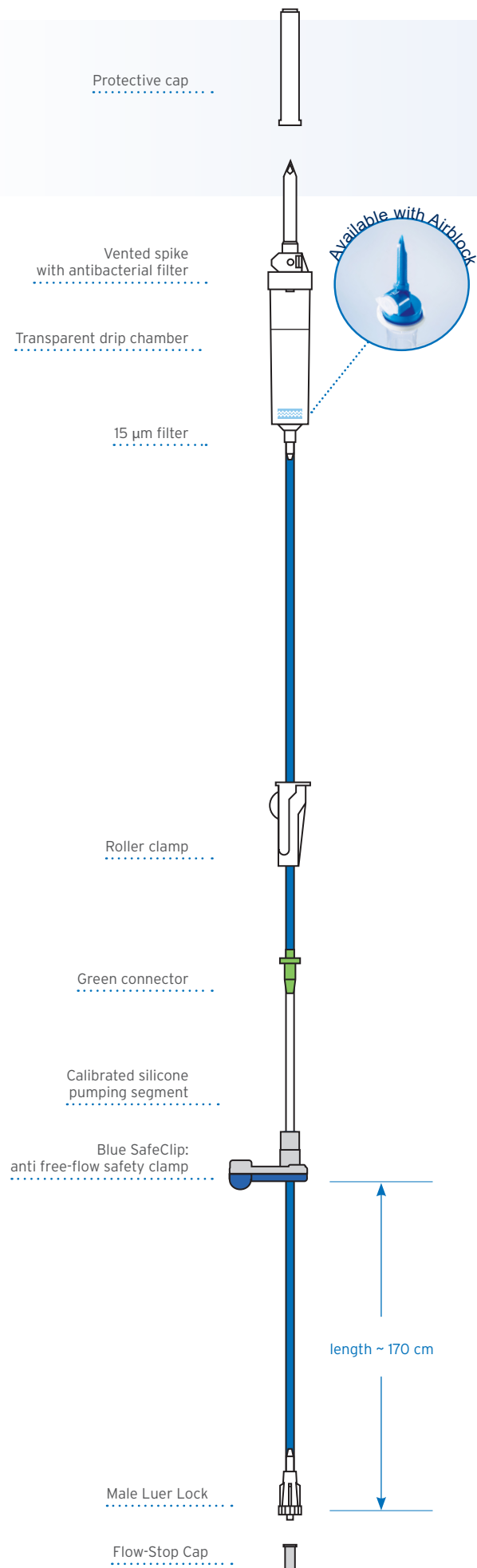
Typical applications

- Infusion of drugs / fluids
 - having no particular filtration requirements
 - available in bags or bottles
 - having no particular incompatibility
- Infusion of drugs not compatible with PVC

Not to be used for / in

- Blood cells
- Manual primary / secondary or automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC

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Light Protected Tubing

VL SP92

ref. M46443600Y

Approximate set length:

285 cm

Approximate priming volume:

25 ml

Main materials:

PUR (tubing: diameter 3.0 x 4.1)
PP (tubing: diameter 2.94 x 4.02)
Silicone (tubing: diameter 3.41 x 5.11)

Advantages

- Protection for light sensitive drugs
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC free
- DEHP free
- Latex free

Packaging

- Case quantity: 30 x 1

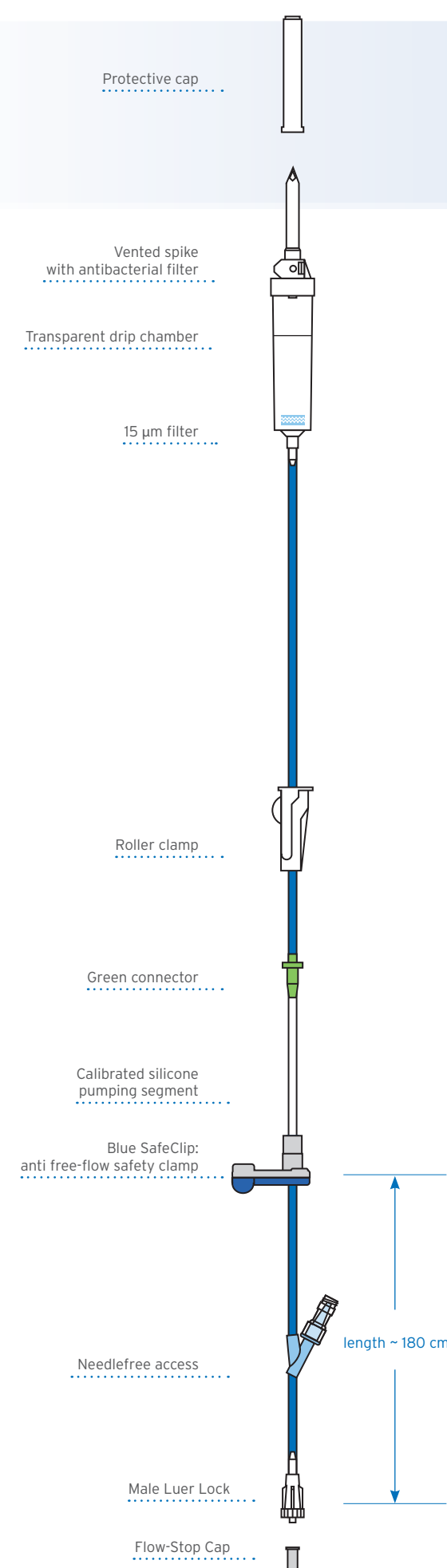
Typical applications

- Infusion of drugs / fluids
 - having no particular filtration requirements
 - available in bags or bottles
 - having no particular incompatibility
- Infusion of drugs not compatible with PVC

Not to be used for / in

- Blood cells
- Manual primary / secondary or automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC

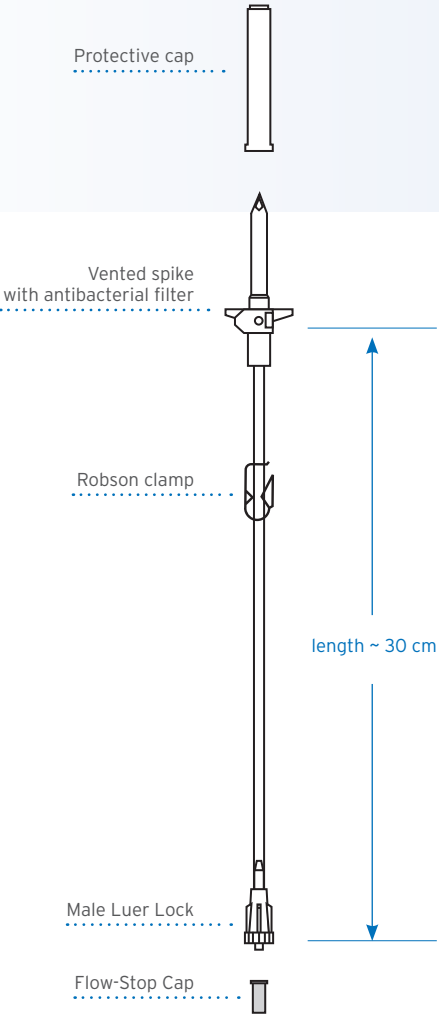
Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.



Secondary Sets

SL

ref. M77460020



Approximate set length:
38 cm
Approximate priming volume:
2 ml
Main materials:
PUR (tubing: diameter 3.0 x 4.1)

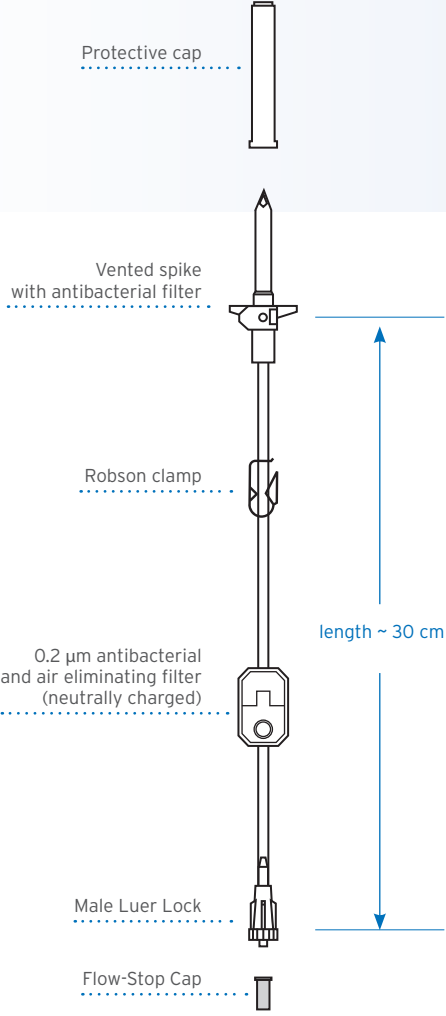
- Advantages**
- Flow-Stop Cap
 - PVC free
 - DEHP free
 - Latex free
- Packaging**
- Case quantity: 60 x 1
- Typical applications**
- Infusion of drugs / fluids
 - having no particular filtration requirements
 - having no particular incompatibility
 - Infusion of drugs not compatible with PVC
 - Manual primary / secondary mode with Volumat MC Agilia / Agilia VP MC
 - Automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC
 - Secondary infusion
- Not to be used for / in**
- Blood cells
 - Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)

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Secondary Sets

SL Filter

ref. M77460025



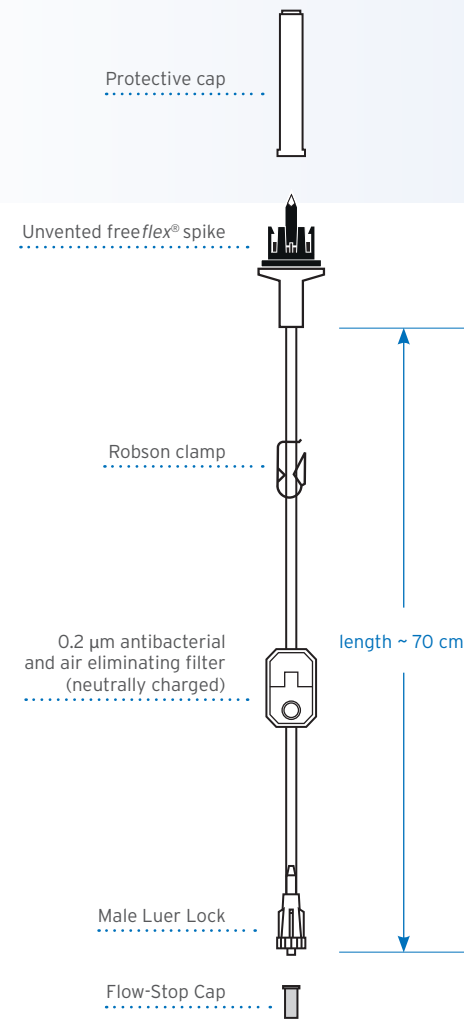
Approximate set length:
48 cm
Approximate priming volume:
5 ml
Main materials:
PUR (tubing: diameter 3.0 x 4.1)

- Advantages**
- Provides additional protection against bacterial contamination
 - Flow-Stop Cap
 - PVC free
 - DEHP free
 - 0.2µm PES neutrally charged filter
 - Latex free
- Packaging**
- Case quantity: 40 x 1
- Typical applications**
- Infusion of drugs requiring a 0.2 µm filter
 - Infusion of drugs / fluids
 - having no particular incompatibility
 - Infusion of drugs not compatible with PVC
 - Manual primary / secondary mode with Volumat MC Agilia / Agilia VP MC
 - Automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC
 - Secondary infusion
- Not to be used for / in**
- Blood cells
 - Total parenteral nutrition and other lipid-containing solutions
 - Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)

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SL FX Filter

ref. M77460026



Approximate set length:

78 cm

Approximate priming volume:

7 ml

Main materials:

PUR (tubing: diameter 3.0 x 4.1)

Advantages

- Tight and secure connection with freeflex® ensuring a permanent connection avoiding spillages
- Provides additional protection against bacterial contamination
- Flow-Stop Cap
- PVC free
- DEHP free
- 0.2µm PES neutrally charged filter
- Latex free

Packaging

- Case quantity: 40 x 1

Typical applications

- Only use with Fresenius Kabi freeflex® bags
- Infusion of drugs requiring a 0.2 µm filter
- Infusion of drugs / fluids
 - having no particular incompatibility
- Infusion of drugs not compatible with PVC
- Manual primary / secondary mode with Volumat MC Agilia / Agilia VP MC
- Automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC
- Secondary infusion

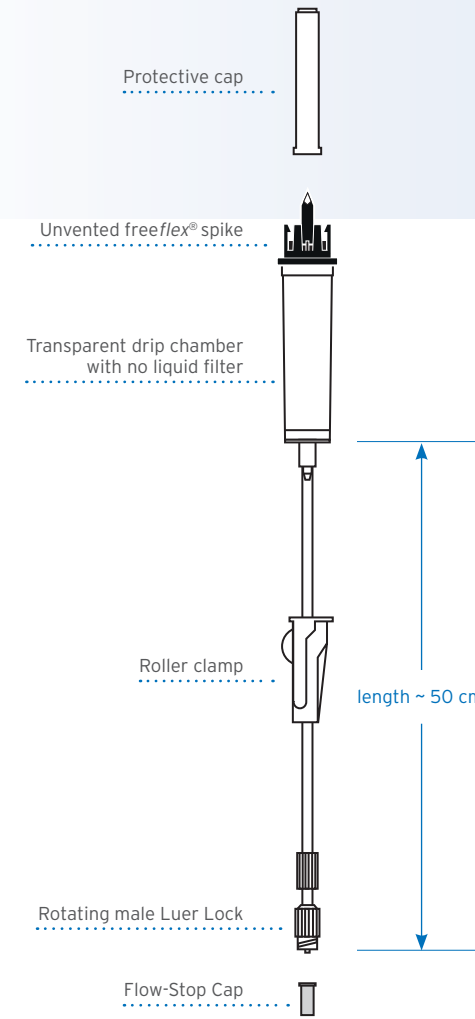
Not to be used for / in

- Bottles
- Standard bags
- Blood cells
- Total parenteral nutrition and other lipid-containing solutions
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)

Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.

SL 20 FX ND

ref. M77460033



Approximate set length:

65 cm

Approximate priming volume:

10 ml

Main materials:

PUR (tubing: diameter 3.0 x 4.1)

Advantages

- Tight and secure connection with freeflex® ensuring a permanent connection avoiding spillages
- Flow-Stop Cap
- PVC free
- DEHP free
- Latex free

Packaging

- Case quantity: 50 x 1

Typical applications

- Only use with Fresenius Kabi freeflex® Bags
- Infusion of drugs / fluids
 - having no particular filtration requirements
 - having no particular incompatibility
- Infusion of drugs not compatible with PVC
- Manual primary / secondary mode with Volumat MC Agilia / Agilia VP MC
- Automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC
- Secondary infusion

Not to be used for / in

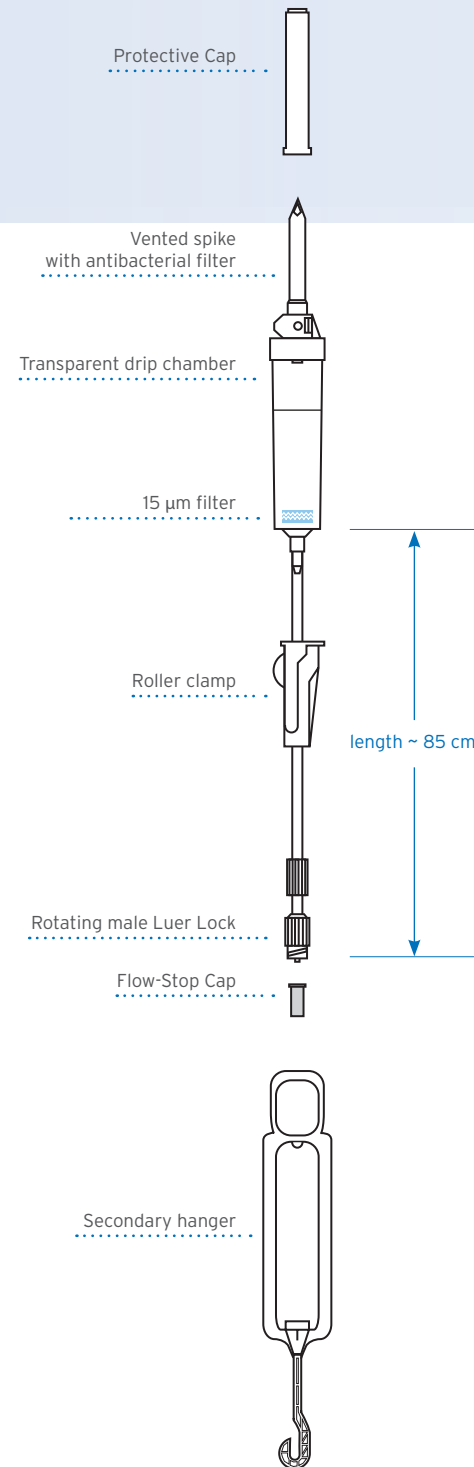
- Bottles
- Standard bags
- Blood cells
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)

Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.

Secondary Sets

SL 00 DC

ref. M77460037



Approximate set length:

85 cm

Approximate priming volume:

12 ml

Main materials:

PVC (tubing: diameter 3.0 x 4.1 mm)

Advantages

- Flow-Stop Cap
- DEHP free
- Latex free
- Secondary hanger to hang the primary bag lower than the secondary infusion

Packaging

- Case quantity: 40 x 1

Typical applications

- Infusion of drugs / fluids
 - having no particular filtration requirements
 - available in bags or bottles
 - having no particular incompatibility
- Manual primary / secondary mode with Volumat MC Agilia / Agilia VP MC
- Automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC
- Secondary infusion

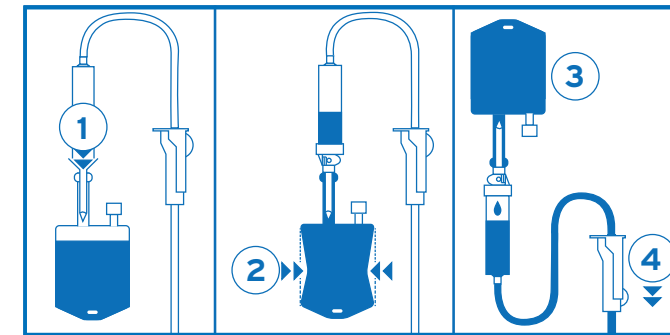
Not to be used for / in

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. glyceryl trinitrate, isosorbide dinitrate, sodium nitroprusside)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)

Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.

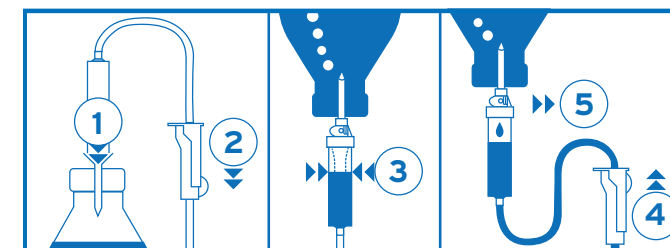
Priming of the set used with a bag

- 1 Introduce the spike right down into the bag (roller clamp open – air inlet closed).
- 2 Press the bag in order to remove the air, and fill the drip chamber up to half of its capacity.
- 3 Hang the bag upside down, and let the liquid flow into the set.
- 4 Once the set is completely primed, close the roller clamp and check absence of air bubbles.

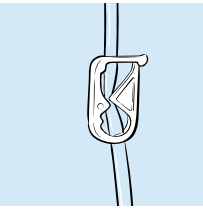

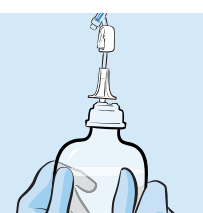

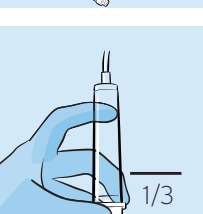
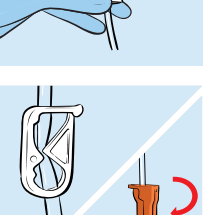
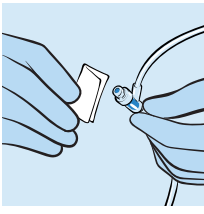
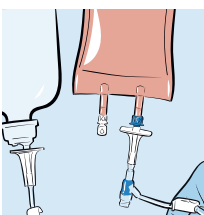
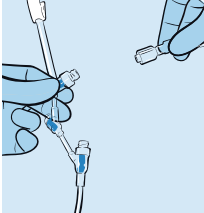
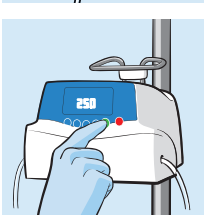



Priming of the set used with a bottle

- 1 Introduce the spike right down into the bottle (roller clamp open – air inlet closed).
- 2 Close the roller clamp.
- 3 Hang the bottle upside down, then press the drip chamber in order to fill it to ~ half of its capacity.
- 4 Open the roller clamp.
- 5 Open the air inlet, and let the liquid flow into the set.
- 6 Once the set is completely primed, close the roller clamp and check absence of air bubbles.

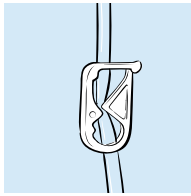
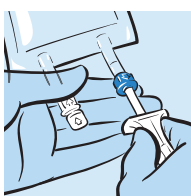
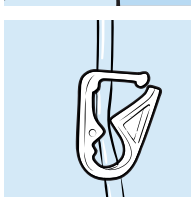
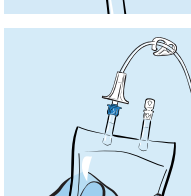
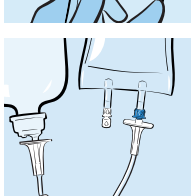
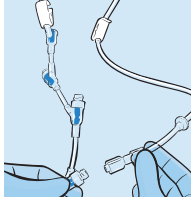


Handling recommendation of Standard Lines

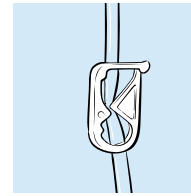
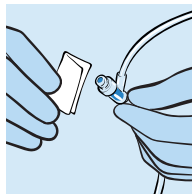
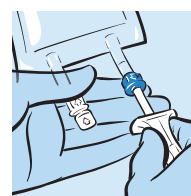

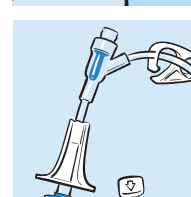
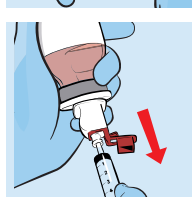
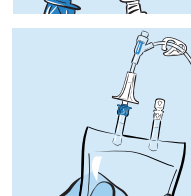
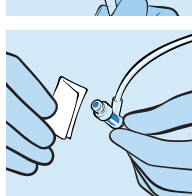
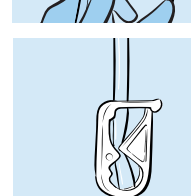
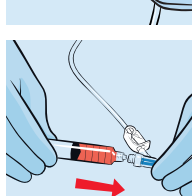
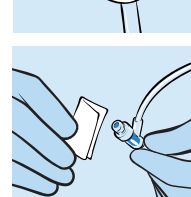
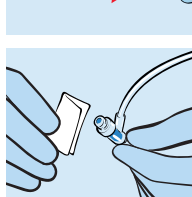
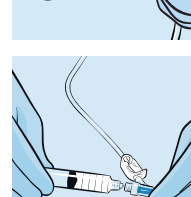
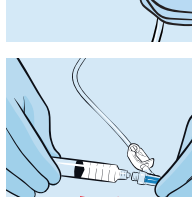
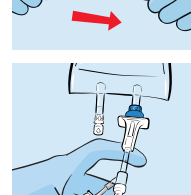
	Close upper clamp of the Administration Set.
	Spike container.
	Turn infusion bag and port upside down (180°), open upper clamp again.
	Hold the drip chamber of the Administration Set above the port of the infusion bag.
	Press infusion bag until the drip chamber of the Administration Set is filled to 1/3. Then hang infusion bag on infusion stand and prime Administration Set completely. Flow-Stop Cap will prevent leakage.
	Close upper clamp and roller clamp of Administration Set.
	Disinfect needlefree access port of the Administration Set (Main Line).
	Attach connector of Secondary Line to needlefree access port of the Administration Set.
	Prepare for start of infusion according to local protocol and manufacturers guideline for respective pump in use.
	Attach connector of Administration Set to patient access site. Consider local protocol for the procedure.
	Before starting the process open the roller clamp of the Administration Set.

Handling recommendation of Standard and Inverted Port

A: Standard

	Close clamp of Secondary Line.
	Remove cap from the spike of the Secondary Line and spike infusion bag.
	Open clamp of Secondary Line.
	Turn infusion bag up-side -own and press it until the Scondary Line is completely deaired and filled with neutral solution.
	Attach connec- tor of Secondary Line to needlefree access port of the Administration Set.
	Close clamp of Secondary Line. Remark: Open clamp of the container which will be used, close the other one.

B: Inverted port

	Close clamp of Secondary Line.		Disinfect port at Secondary Line.
	Remove cap from the spike of the Secondary Line and spike infusion bag.		Spike vial with chemo-spike.
	Turn port upsidedown and open the clamp of the Secondary Line.		Withdraw calculated volume of cytostatic drug.
	Press infusion bag until the Secondary Line is completely deaired and filled with neutral solution.		Disinfect needlefree access port.
	Close clamp of Secondary Line. Be sure that the clamp is placed next to the needlefree access. Do not open clamp during the process again! It remains closed!		Connect syringe with cytostatic drug to needlefree access port and inject fluid.
	Disinfect needlefree access port.		Disinfect needle-free access port at Secondary Line.
	Connect syringe to needlefree access port.		Take flush syringe, connect to needle-free access port and flush system.
	Withdraw desired amount of fluid for flushing.		

Installation of the infusion set

- 1 Open the pump door by lifting the door lever.

Note: The pump automatically switches on when connected to mains. If not, press the <ON> key. An auto-test checks the functionality of the pump. Make sure that all LEDs and buzzers are activated.

- 2 Once the auto-test is OK, an alarm screen appears to indicate that you can start installing the tubing set.

Note: The flashing red leds indicate that it is an alarm. If no action is taken within 2 minutes, an audible signal will sound. Press the <SILENCE ALARM> key.



1. Align the tubing set horizontally along the tube guides so that the green connector is positioned to the right (green) and the blue clamp is positioned in front of the clamp guide (blue).

2. Insert the green connector into the green slot.
3. Position the blue SafeClip in its blue slot and then push the clamp to locate the spherical hinge into place.
4. Ensure that the tube is in the left tube guide, then push the door lever to close the pump door.

- 3 Occlusivity Check System (OCS) automatically clamps the line, activates real pumping and checks pressure increase.
The OCS test verifies the circuit and pump occlusivity to secure the pump against a risk of free flow.

- 4 Place the container away from the pump. The container should be placed 20 to 80 cm above the pump (h).



Removal of the infusion set

- 1 Remove the set by pulling on the safety clamp and on the administration set.



- 2 Release the Safe Clip.



Other products may be available and are not included in this catalogue. Please contact your local Fresenius Kabi Account Manager to discuss our complete range of dedicated Volumat infusion giving sets.

This brochure may contain inaccuracies or typographical errors. Modifications may thus be made and will be included in later editions. As standards and equipment change from time to time, the features shown and described in this document must be confirmed by our departments.
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