

Volumat Lines

Infusion - Transfusion - Oncology -
Paediatric - Parenteral Nutrition



FRESENIUS KABI

caring for life



To the Health Care Professional,

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.

The Volumat Lines are specifically designed for the Agilia VP MC infusion pumps.

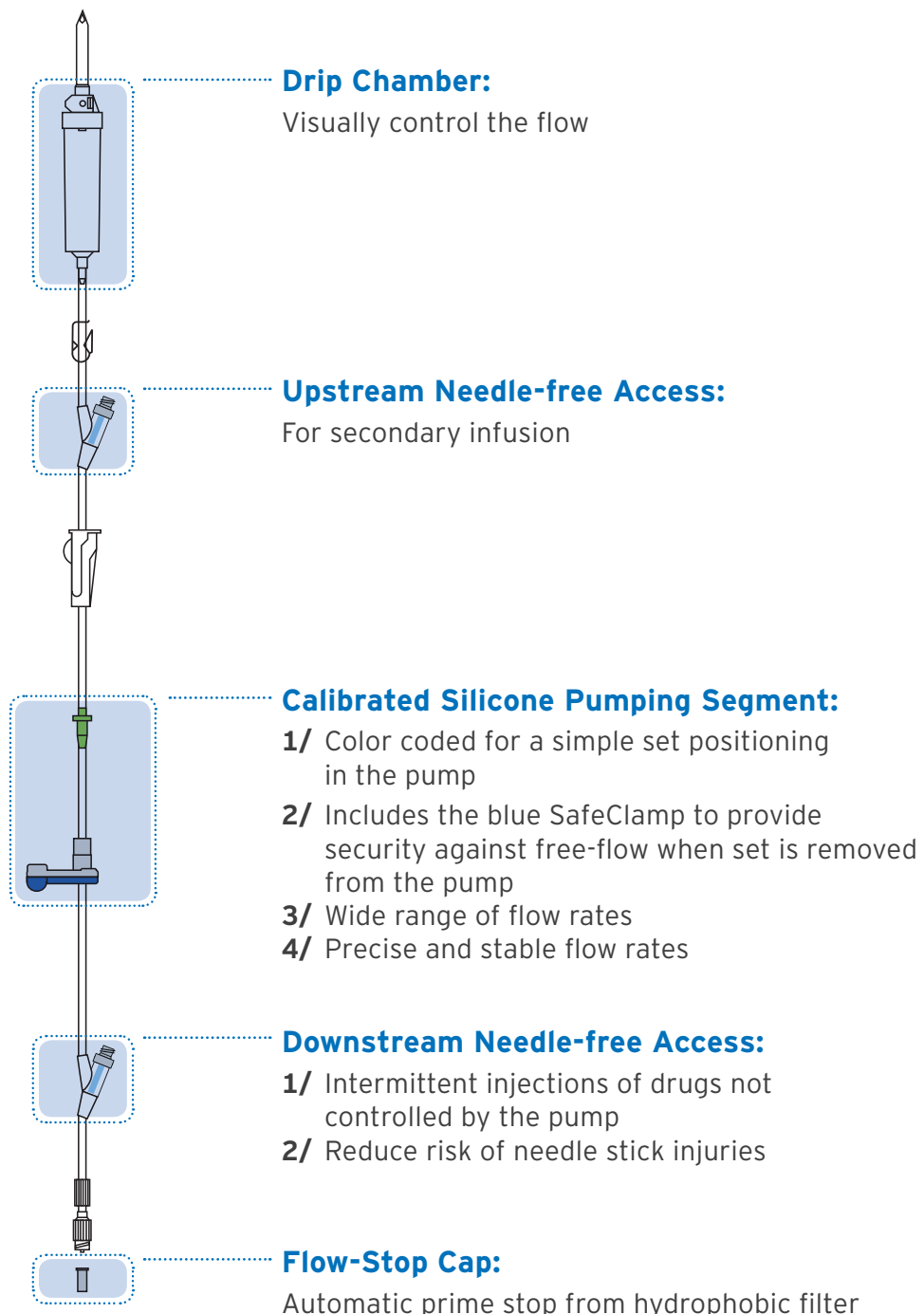
The Agilia VP MC pumps and sets integrate advanced pumping mechanisms, to aid in accurate delivery of fluid in the clinical area.

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

DEHP
FREE

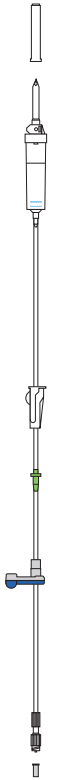
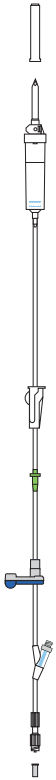
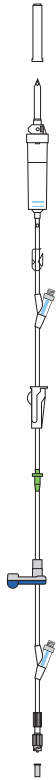
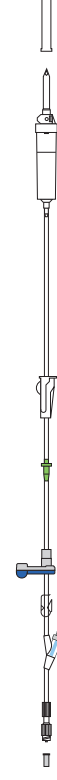



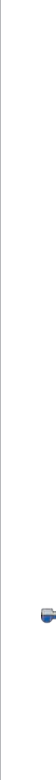

| | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------|
| Standard & Primary Sets <ul style="list-style-type: none">• Standard sets are designed for infusion of drugs or solutions• Primary sets are equipped with upstream needle-free access enabling the connection of secondary sets for secondary infusion | 11 | Standard & Primary Sets |
| Oncology Sets <ul style="list-style-type: none">• Equipped with upper needle-free access• Certain oncology sets have special filter or materials | 14 | Oncology Sets |
| Transfusion Sets <ul style="list-style-type: none">• Equipped with 200 µm filter allowing blood products to be administered• <i>Note: Blood products should only be administered with transfusion sets</i> | 21 | Transfusion Sets |
| Paediatric Sets <ul style="list-style-type: none">• Equipped with burette to deliver a defined volume• <i>Note: Standard sets may be suitable for paediatric purposes in many situations</i> | 25 | Paediatric Sets |
| Parenteral Nutrition Set <ul style="list-style-type: none">• Equipped with 1.2 µm filter enabling filtration of lipid-containing solutions• <i>Note: When filtration of parenteral nutrition is not required, other standard infusion sets may also be suitable</i> | 27 | Parenteral Nutrition Sets |
| Special Sets <ul style="list-style-type: none">• Use special material or have a special configuration to allow infusion of certain drugs | 28 | Special Sets |
| Secondary Sets <ul style="list-style-type: none">• Short lines, designed to be attached to primary sets | 31 | Secondary Sets |
| Additional Information | 37 | Additional Information |

STANDARD AND PRIMARY SETS

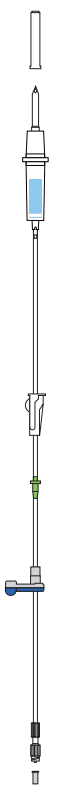
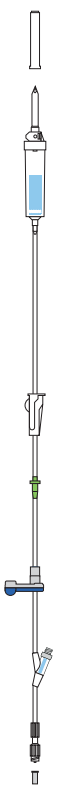
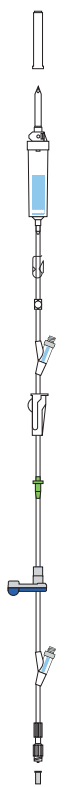
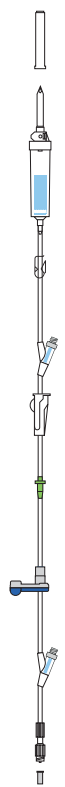
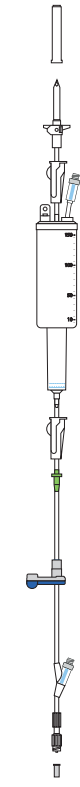

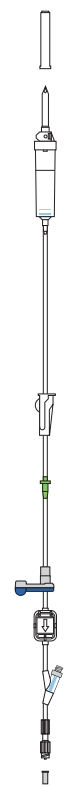
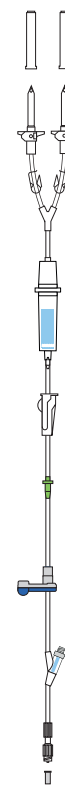
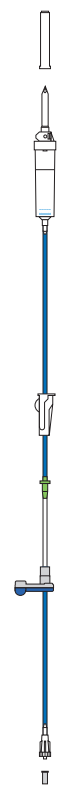
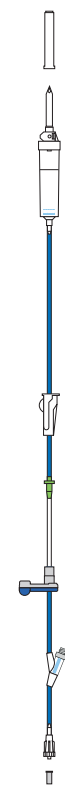
ONCOLOGY SETS

0.2 µm FILTER






LIGHT PROTECTED SETS

| DESIGNATION | VL ST10 | VL ST02 | VL ST22 | VLST02 ND | VL ON70 | VL ON72 | VL ON90 | VL ON22 OP NF | VL ON42 OP NF |
|-------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ARTICLE REFERENCE | M46441300s | M46441900s | M46442500s | M46441980 | M46444600s | M46444100s | M46444900s | M46444235 | M46444085 |
| APPLICATION | Infusion | Infusion | Infusion | Infusion | Infusion | Infusion | Infusion | Infusion | Infusion |
| |  |  |  |  |  |  |  |  |  |
| SPIKE Vented / Non - Vented | | | | | | | | | |
| DRIP CHAMBER n Inline | 15 µm filter | 15 µm filter | 15 µm filter | no liquid filter | 15 µm filter | 15 µm filter | 15 µm filter | 15 µm filter | 15 µm filter |
| ROBSON CLAMP ▲ Upstream / ▼ Downstream | | | ▲ | ▼ | | | ▲ | ▲▼ | ▲▼ |
| ONE-WAY CHECK VALVE | | | | | | | | | |
| NEEDLE-FREE ACCESS ▲ Upstream / ▼ Downstream | | ▼ | ▲▼ | ▼ | | ▼ | | ▲▲▼ | ▲▲▲▲▼ |
| ROLLER CLAMP | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ |
| ANTI-BACTERIAL / AIR ELIMINATING 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 | ~27 ml | ~28 ml |
| LENGTH DOWNSTREAM | ~170 cm | ~170 cm | ~170 cm | ~170 cm | ~170 cm | ~180 cm | ~160 cm | ~150 cm | ~150 cm |
| APPROXIMATE SET LENGTH | ~285 cm | ~285 cm | ~285 cm | ~285 cm | ~285 cm | ~285 cm | ~285 cm | ~296 cm | ~312 cm |
| MAIN MATERIALS | PVC, SILICONE | PVC, SILICONE | PVC, SILICONE | PVC, SILICONE | PUR, PP, SILICONE | PUR, PP, SILICONE | PUR, PP, SILICONE | PUR, PP, SILICONE | PUR, PP, SILICONE |
| | PAGE 11 | PAGE 12 | PAGE 13 | PAGE 14 | PAGE 15 | PAGE 16 | PAGE 17 | PAGE 18 | PAGE 19 |

PUR: Polyurethane
PP: Polypropylene

| TRANSFUSION SETS 200 µm FILTER | | | | PAEDIATRIC & BURETTE SETS | | PARENTERAL NUTRITION SET | SPECIAL SETS 200 µm FILTER LIGHT PROTECTED TUBING | | |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| VL TR00 | VL TR12 | VL TR42 | VL TR43 | VL PA93 | VL PA94 | VL PN02 | VL SP22 | VL SP90 | VL SP92 |
| M46442800s | M46442700s | M46442900s | M46444500s | M46443800s | M46445300s | M46444400s | M46443100s | M46443500s | M46443600s |
| Infusion and Transfusion | Infusion and Transfusion | Infusion and Transfusion | Infusion and Transfusion | Infusion | Infusion | Infusion | Infusion and Transfusion | Infusion | Infusion |
|  |  |  |  |  |  |  |  |  |  |
| 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 |
| | | ▲ | ▲ | | | | ▲▲ | | |
| | | ☑ | | | | | | | |
| | ▼ | ▲▼ | ▲▼ | ▲▼ | ▲▼ | ▼ | ▼ | | ▼ |
| ☑ | ☑ | ☑ | ☑ | ☑ (2) | ☑ (2) | ☑ | ☑ | ☑ | ☑ |
| | | | | | | ☑ 1.2 µm filter | | | |
| | | | | | | | | | |
| ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ |
| ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ |
| ~25 ml | ~25 ml | ~25 ml | ~25 ml | ~25 ml | ~25 ml | ~25 ml | ~30 ml | ~25 ml | ~25 ml |
| ~170 cm | ~170 cm | ~170 cm | ~170 cm | ~170 cm | ~170 cm | ~180 cm | ~170 cm | ~170 cm | ~180 cm |
| ~285 cm | ~285 cm | ~285 cm | ~285 cm | ~300 cm | ~300 cm | ~285 cm | ~290 cm | ~285 cm | ~285 cm |
| PVC, SILICONE | PVC, SILICONE | PVC, SILICONE | PVC, SILICONE | PVC, SILICONE | PVC, SILICONE | PVC, SILICONE | PVC, SILICONE | PUR, PP, SILICONE | PUR, PP, SILICONE |
| PAGE 21 | PAGE 22 | PAGE 23 | PAGE 24 | PAGE 25 | PAGE 26 | PAGE 27 | PAGE 28 | PAGE 29 | PAGE 30 |

SECONDARY SETS

| DESIGNATION | SL | SL Filter | SL FX Filter | SL 20 FX ND | SL 00 DC |
|-------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| ARTICLE REFERENCE | M77460020 | M77460025 | M77460026 | M77460033 | M77460037 |
| APPLICATION | Infusion | Infusion | Infusion | Infusion | Infusion |
| |  |  |  |  |  |
| SPIKE Vented / Non - Vented | | | freeflex® | freeflex® | |
| DRIP CHAMBER n Inline | | | | no liquid filter | 15 µm filter |
| ROBSON CLAMP ▲ Upstream / ▼ Downstream | ▲ | ▲ | ▲ | | |
| ONE-WAY CHECK VALVE | | | | | |
| NEEDLE-FREE ACCESS ▲ Upstream / ▼ Downstream | | | | | |
| ROLLER CLAMP | | | | ☑ | ☑ |
| ANTI-BACTERIAL / AIR ELIMINATING FILTER | | ☑ 0.2 µm filter | ☑ 0.2 µm filter | | |
| 3-WAY-STOPCOCK | | | | | |
| INJECTION SITE | | | | | |
| ROTATING MALE LUER LOCK | | | | ☑ | ☑ |
| FLOW-STOP CAP | ☑ | ☑ | ☑ | ☑ | ☑ |
| PRIMING VOLUME | ~2 ml | ~5 ml | ~7 ml | ~10 ml | ~12 ml |
| LENGTH DOWNSTREAM | | | | | |
| APPROXIMATE SET LENGTH | ~38 cm | ~48 cm | ~78 cm | ~65 cm | ~85 cm |
| MAIN MATERIALS | PUR | PUR | PUR | PUR | PVC |
| | PAGE 31 | PAGE 32 | PAGE 33 | PAGE 34 | PAGE 35 |



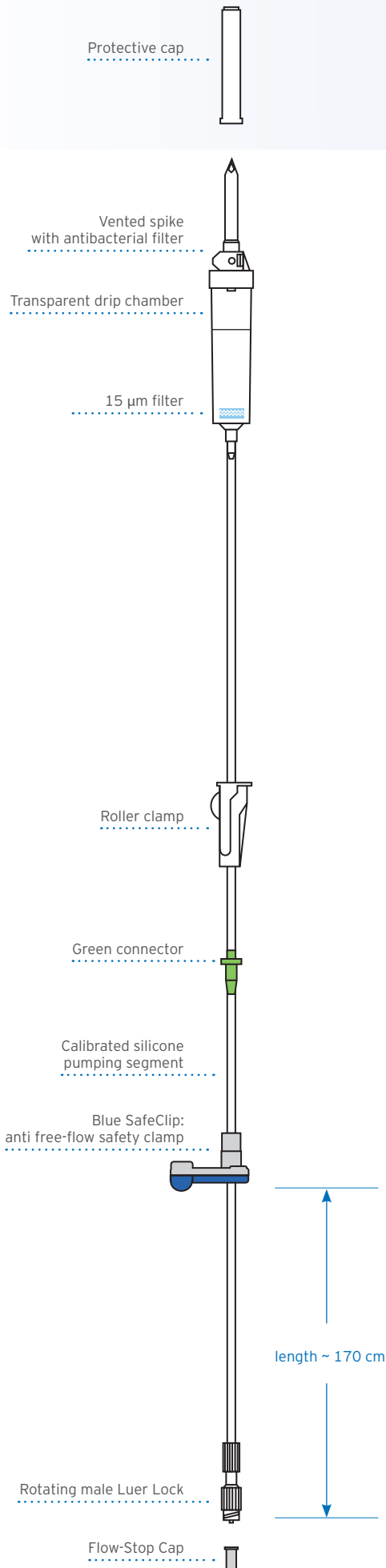
Volumat Lines / Sets



| | Sets for infusion | Sets for transfusion | Drip chamber filter [µm] | Special characteristics | Needle free access | Side lines | Drops /ml | Page |
|-----------------------------------|-------------------|----------------------|--------------------------|-----------------------------------------------------|--------------------|------------|-----------|-----------|
| Standard and Primary Sets | | | | | | | | |
| VL ST10 | | | 15 | | | | | 11 |
| VL ST02 | | | 15 | | 1 | | | 12 |
| VL ST22 | | | 15 | | 2 | | | 13 |
| Oncology Set | | | | | | | | |
| VL ST02 ND | | | | no liquid filter | 1 | | | 14 |
| VL ON70 | | | 15 | 0.2 µm air eliminating filter | | | | 15 |
| VL ON72 | | | 15 | 0.2 µm air eliminating filter | 1 | | | 16 |
| VL ON90 | | | 15 | light protection | | | | 17 |
| VL ON22 OP NF | | | 15 | light protection | 3 | | | 18 |
| VL ON42 OP NF | | | 15 | light protection | 5 | | | 19 |
| Transfusion Sets | | | | | | | | |
| VL TR00 | | | 200 | | | | | 21 |
| VL TR12 | | | 200 | | 1 | | | 22 |
| VL TR42 | | | 200 | one-way check valve | 2 | | | 23 |
| VL TR43 | | | 200 | | 2 | | | 24 |
| Paediatric Sets | | | | | | | | |
| VL PA93 | | | 15 | burette set | 2 | | 20 | 25 |
| VL PA94 | | | 15 | burette set with safety flange | 2 | | 60 | 26 |
| Parenteral Nutritional Set | | | | | | | | |
| VL PN02 | | | 15 | 1.2 µm air eliminating filter | 1 | | | 27 |
| Special Sets | | | | | | | | |
| VL SP22 | | | 200 | 2 spikes | 1 | | | 28 |
| VL SP90 | | | 15 | light protected tubing | | | | 29 |
| VL SP92 | | | 15 | light protected tubing | 1 | | | 30 |
| Secondary Sets | | | | | | | | |
| SL | | | | PVC free | | | | 31 |
| SL Filter | | | | 0.2 µm air eliminating filter | | | | 32 |
| SL FX Filter | | | | freeflex® connection, 0.2 µm air eliminating filter | | | | 33 |
| SL 20 FX ND | | | | freeflex® connection, no drip chamber filter | | | | 34 |
| SL 00 DC | | | 15 | secondary hanger | | | | 35 |

VL ST10

ref. M46441300s



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 & Primary Sets

Oncology Sets

Transfusion Sets

Paediatric Sets

Parenteral Nutrition Sets

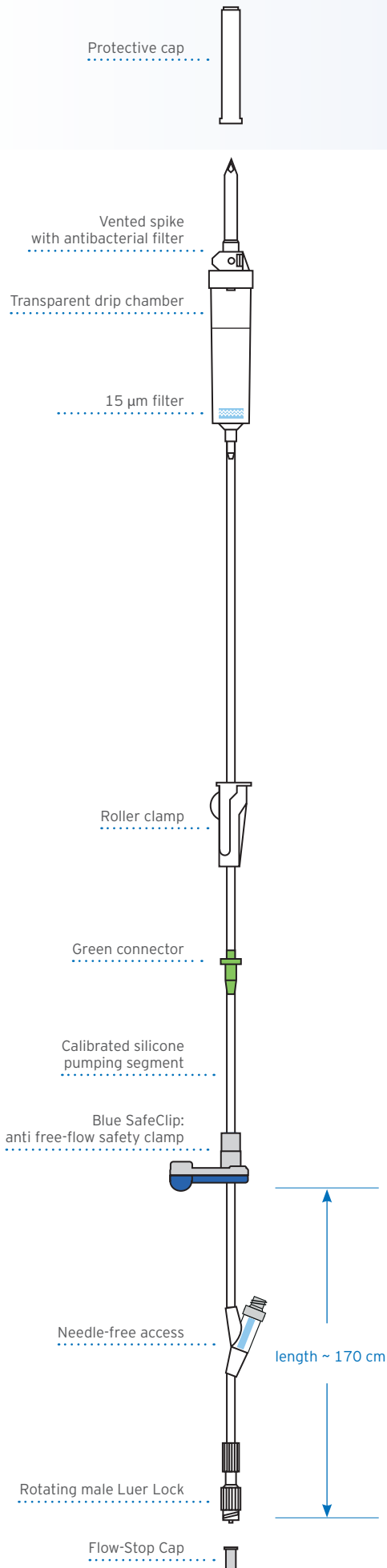
Special Sets

Secondary Sets

Additional Information

VL ST02

ref. M46441900s



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

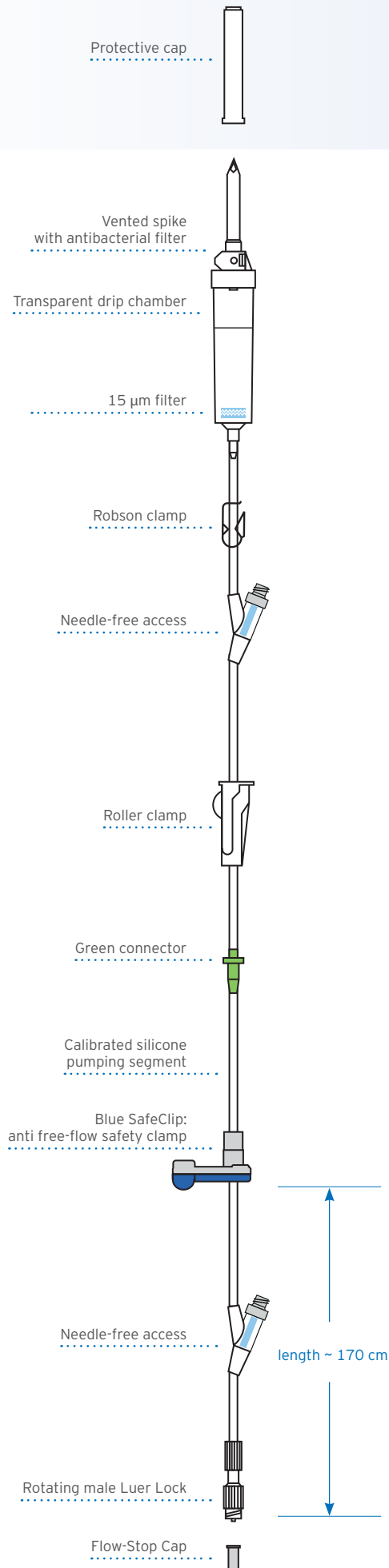
Not to be used for / in

- 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)
- Needle-free 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.

VL ST22

ref. M46442500s



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

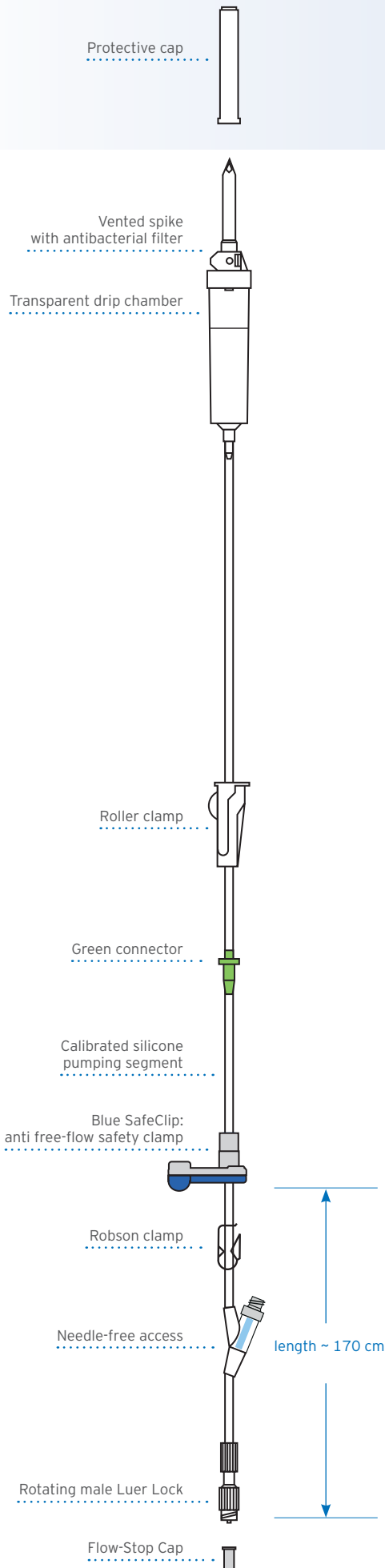
- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. glyceryl trinitrate, isosorbide dinitrate, sodium nitroprusside)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needle-free access. Should not be used to connect a gravity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

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 ST02 ND

ref. M46441980



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

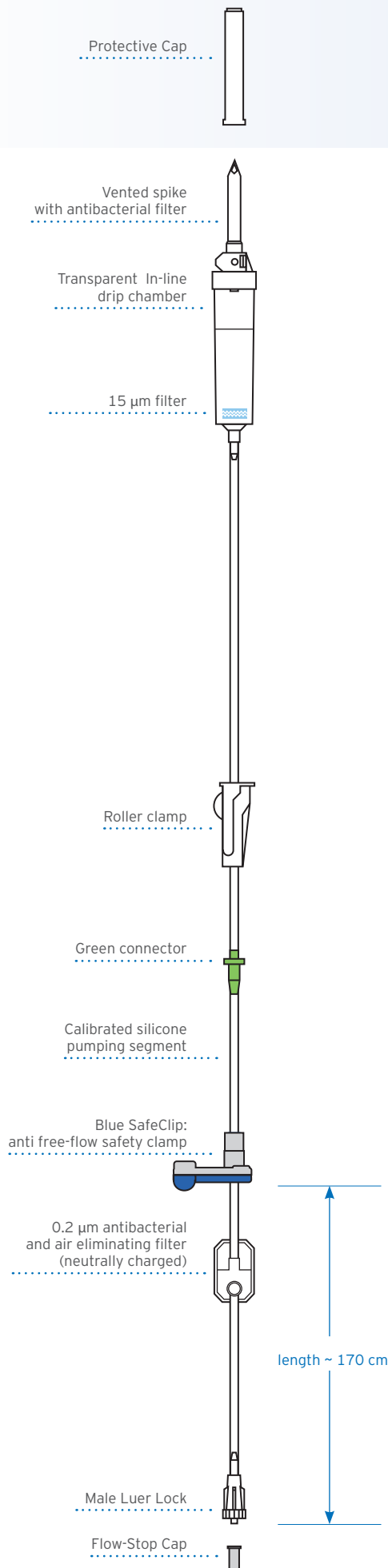
Not to be used for / in

- 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)
- Needle-free 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.

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

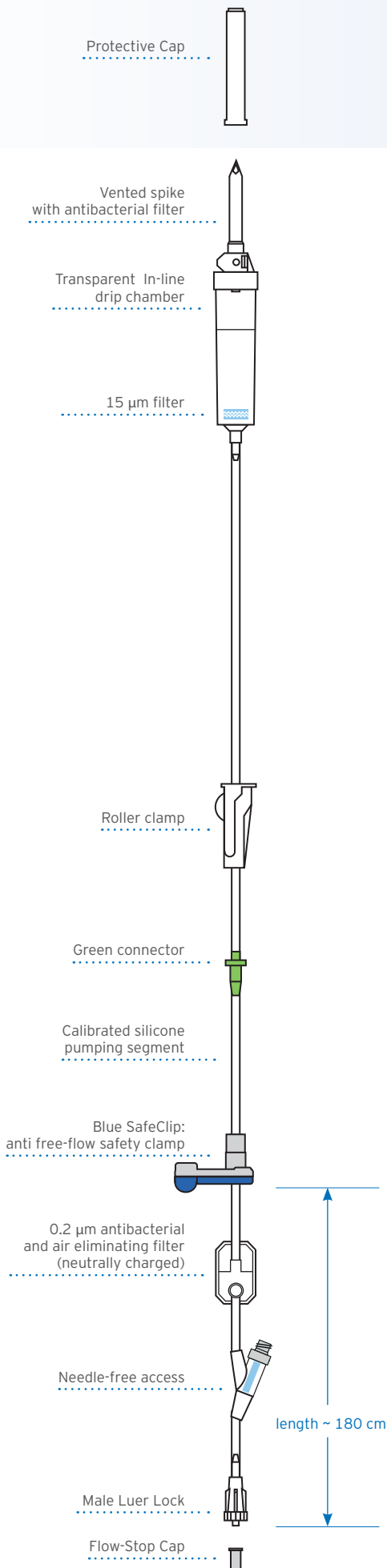
- Blood cells
- Total parenteral nutrition and other lipid-containing solutions
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Manual primary / secondary or automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC



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.

VL ON72

ref. M46444100s



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

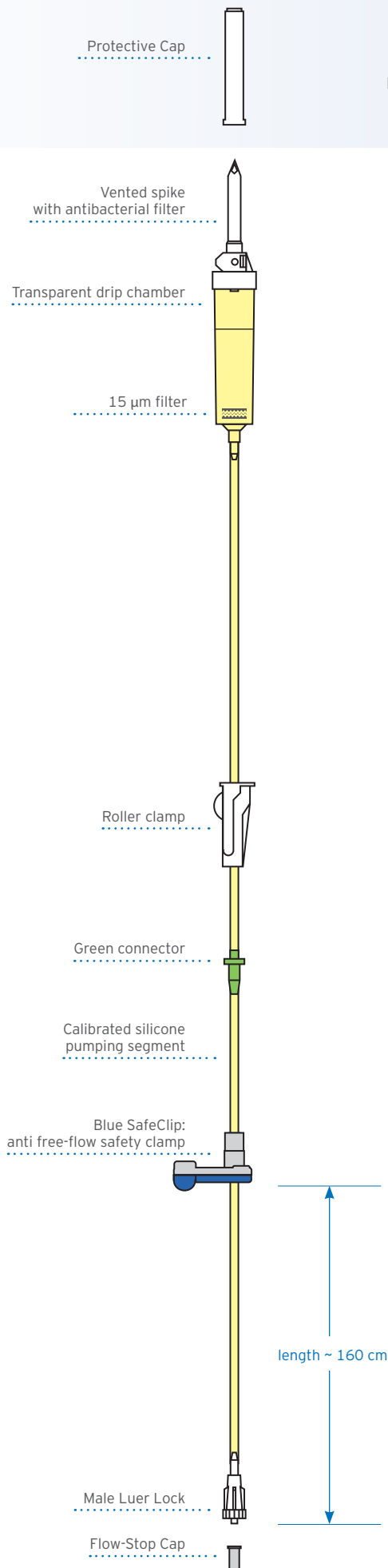
Not to be used for / in

- 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.

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.

Standard &
Primary Sets

Oncology
Sets

Transfusion
Sets

Paediatric
Sets

Parenteral
Nutrition Sets

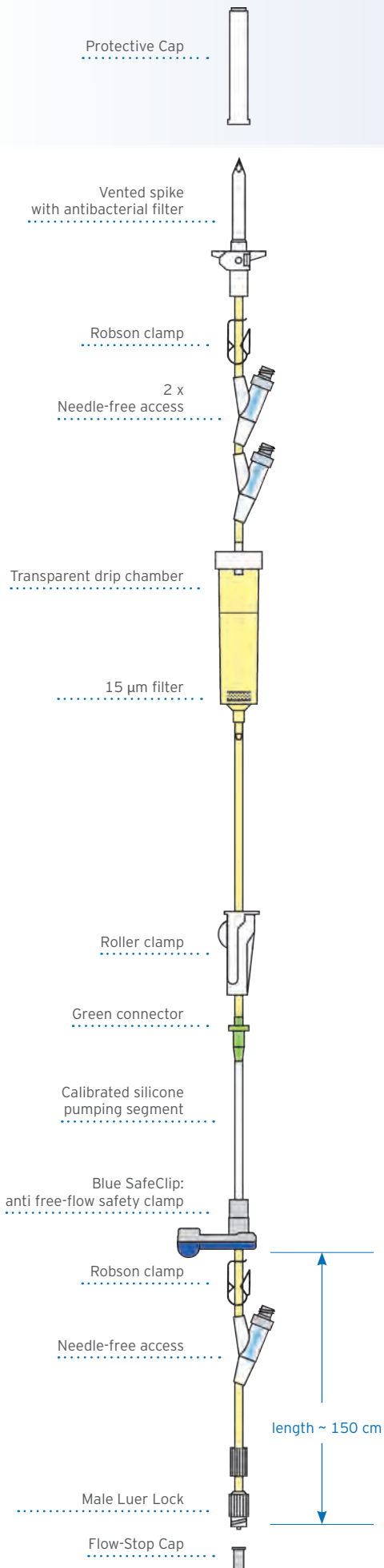
Special
Sets

Secondary
Sets

Additional
Information

VL ON22 OP NF

ref. M46444235



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

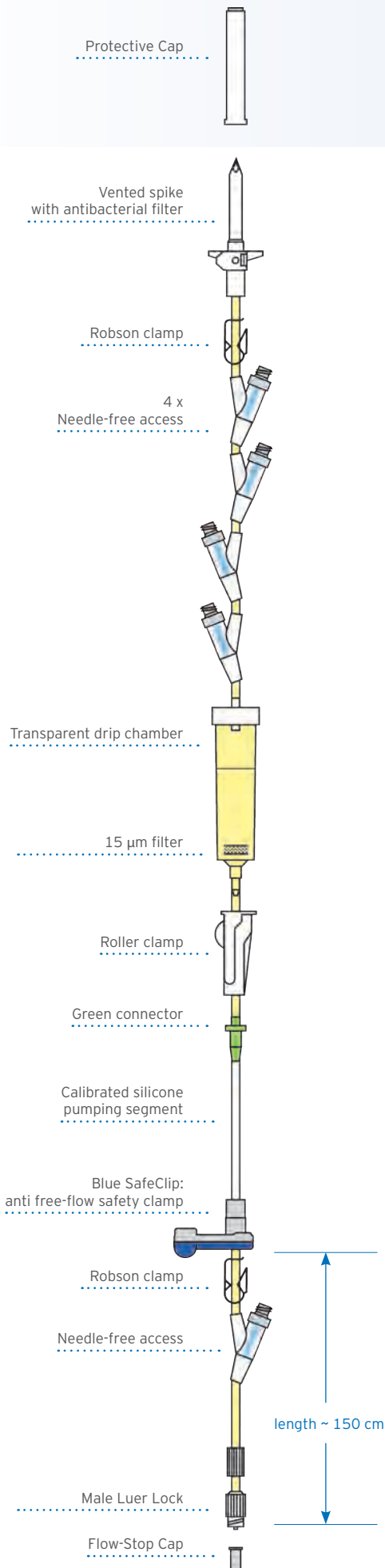
Not to be used for / in

- Blood cells
- Needle-free 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. M46444085



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

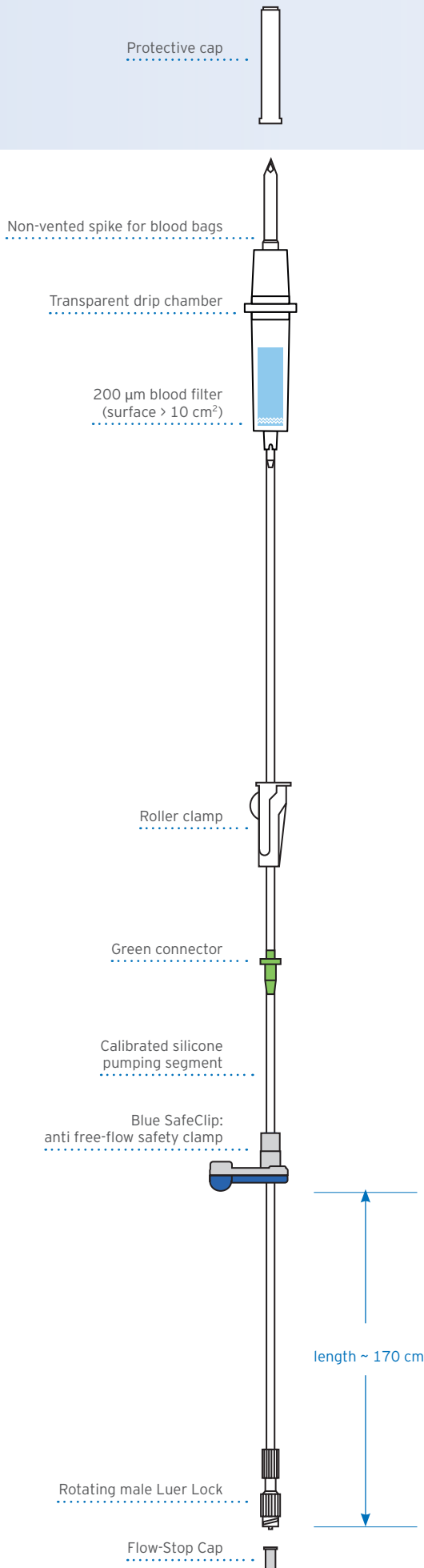
- Blood cells
- Needle-free access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- Automatic primary / secondary mode with Volumat MC Agilia / Volumat MC Agilia VP MC

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 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

Standard & Primary Sets

Oncology Sets

Transfusion Sets

Paediatric Sets

Parenteral Nutrition Sets

Special Sets

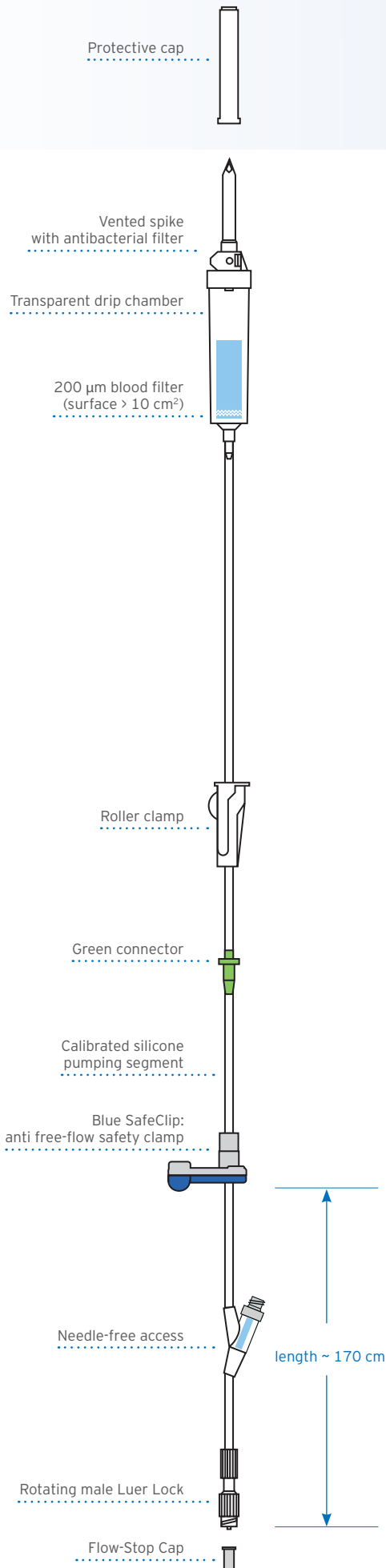
Secondary Sets

Additional Information

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. M46442700s



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

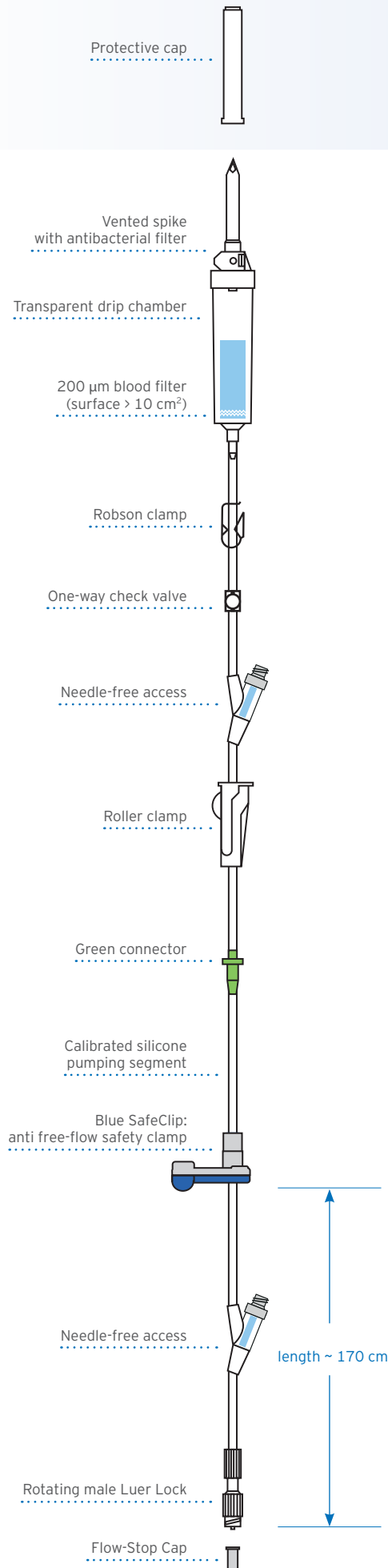
Not to be used for / in

- 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)
- Needle-free 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.

VL TR42

ref. M46442900s



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)
- Needle-free 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.

Standard & Primary Sets

Oncology Sets

Transfusion Sets

Paediatric Sets

Parenteral Nutrition Sets

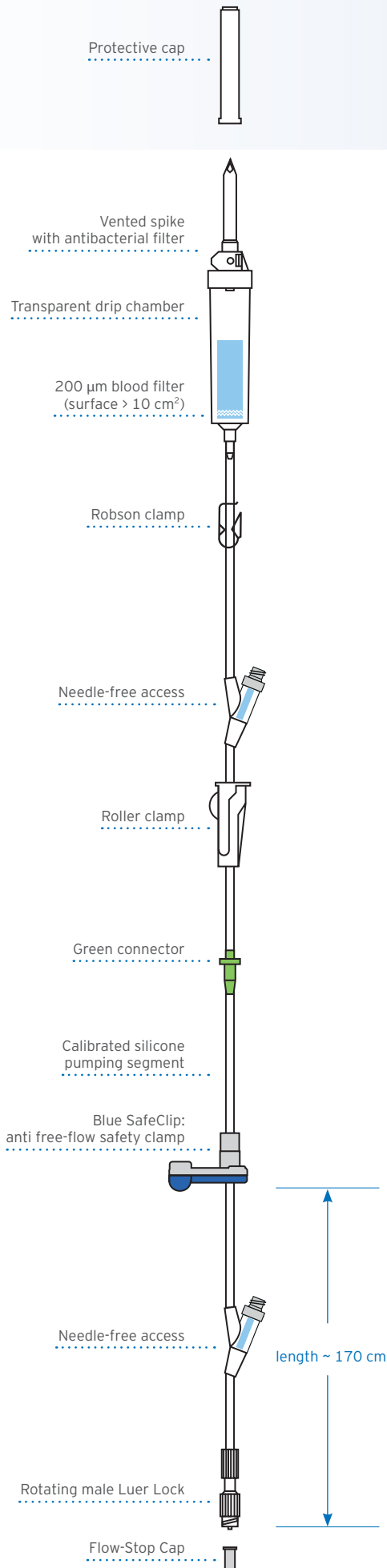
Special Sets

Secondary Sets

Additional Information

VL TR43

ref. M46444500s



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

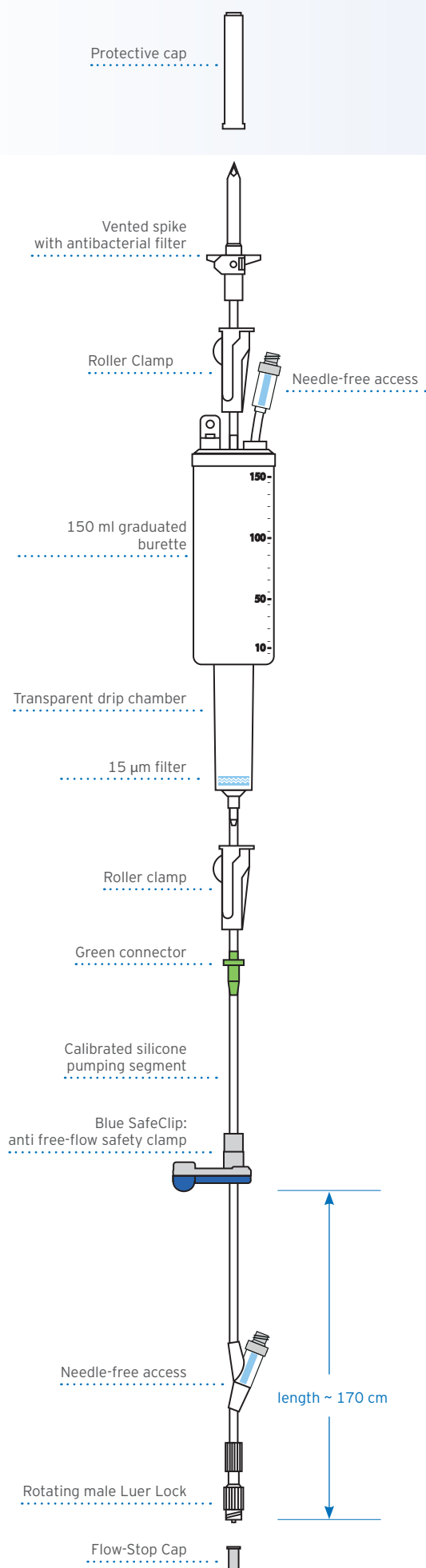
Not to be used for / in

- 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)
- Needle-free 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

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 PA93

ref. M46443800s



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

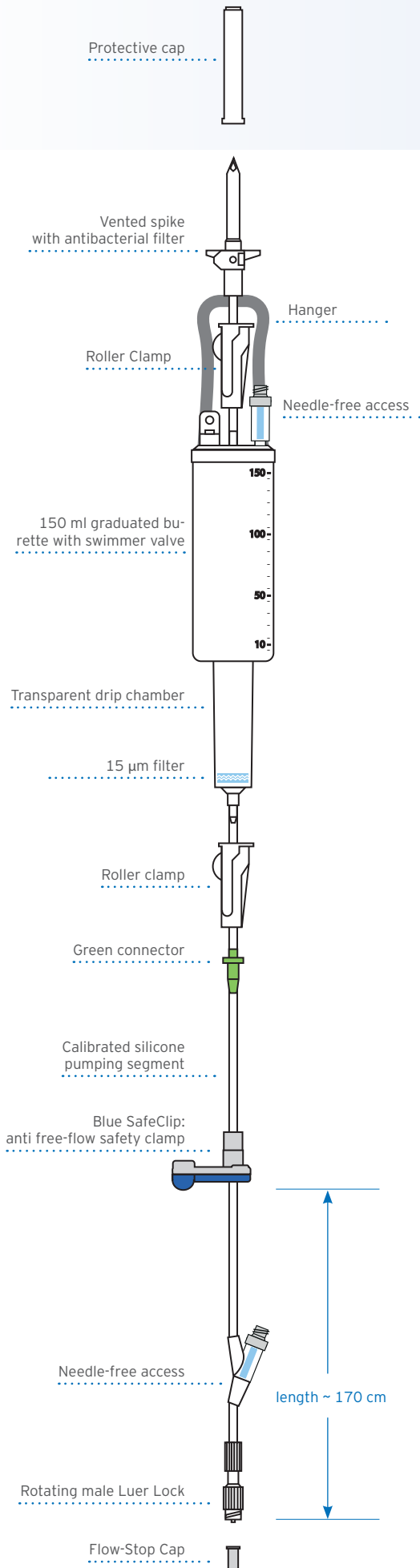
- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. glyceryl trinitrate, isosorbide dinitrate, sodium nitroprusside)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needle-free access. Should not be used to connect a gravity 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.



VL PA94

ref. M46445300s



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

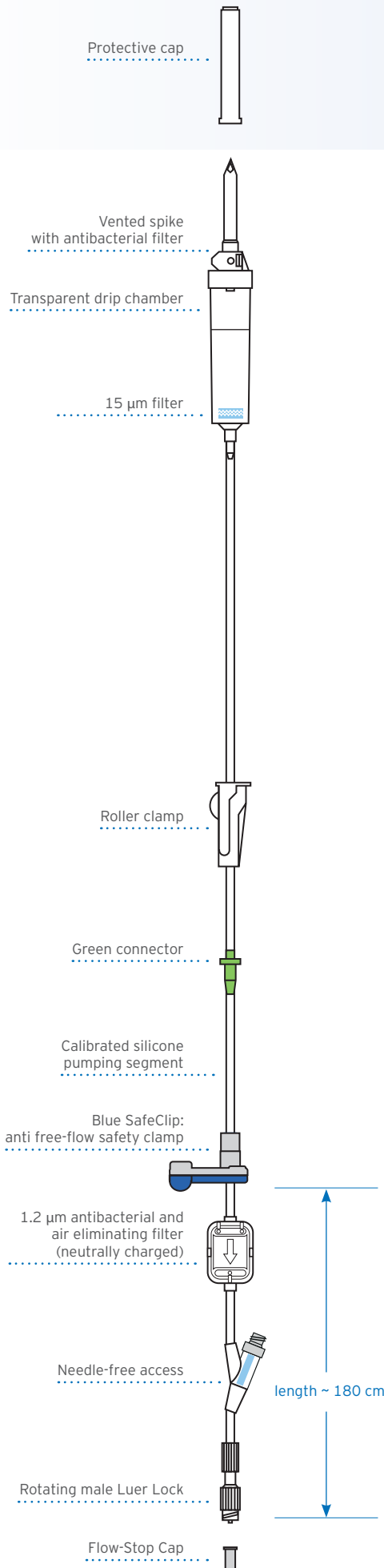
Not to be used for / in

- 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)
- Needle-free 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.

VL PN02

ref. M46444400s



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

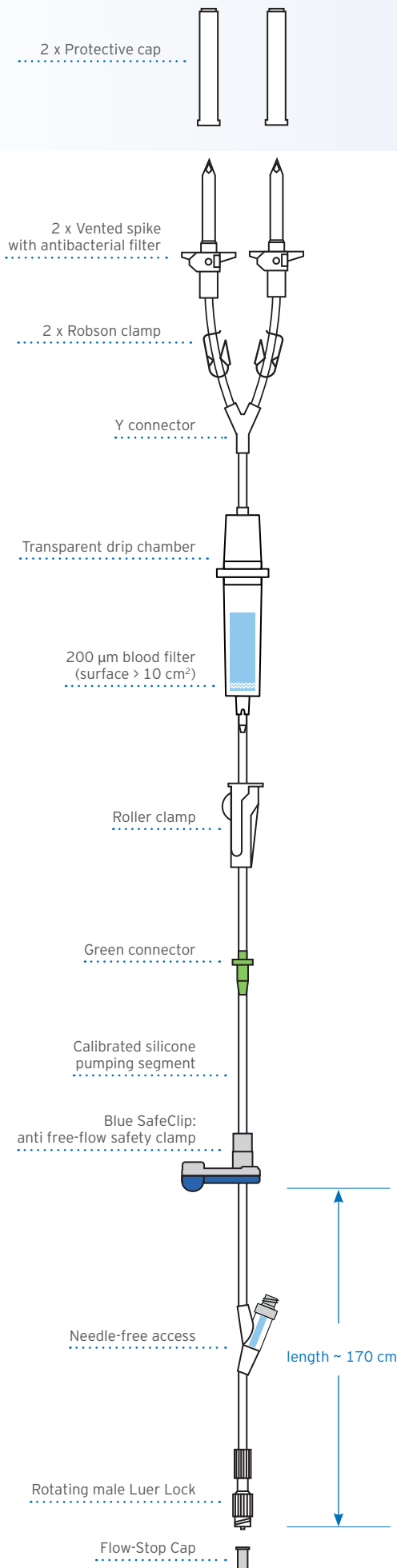
- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. glyceryl trinitrate, isosorbide dinitrate, sodium nitroprusside)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Manual primary / secondary or automatic primary / secondary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

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 SP22

ref. M46443100s



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

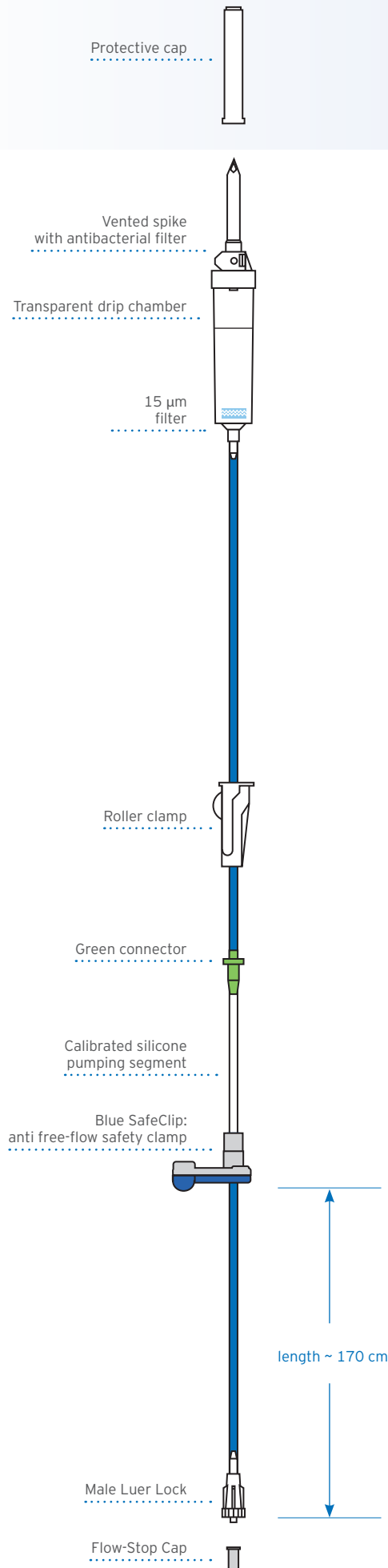
Not to be used for / in

- 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)
- Needle-free 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

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 SP90

ref. M46443500s



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

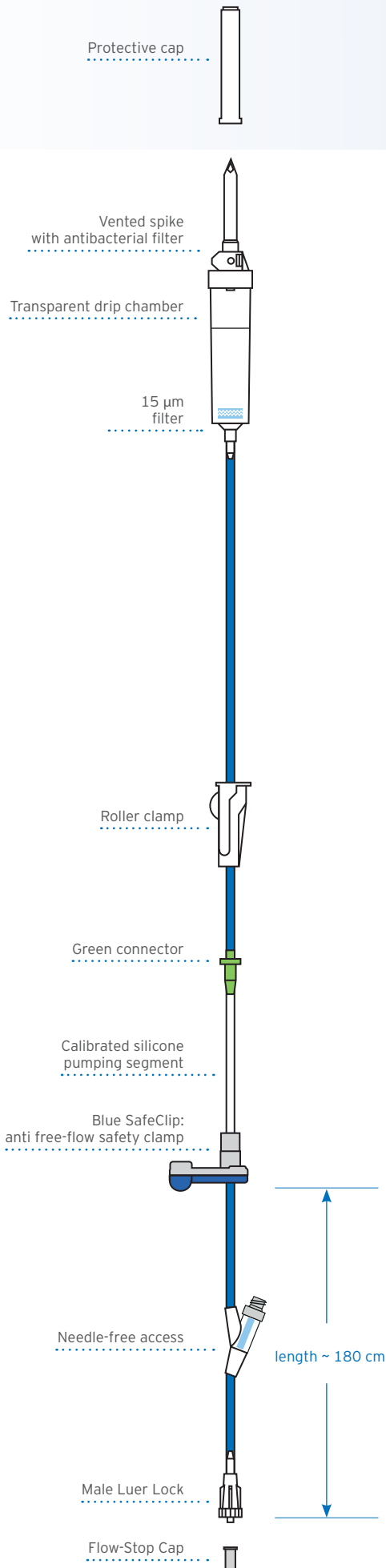
Not to be used for / in

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



VL SP92

ref. M46443600s



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

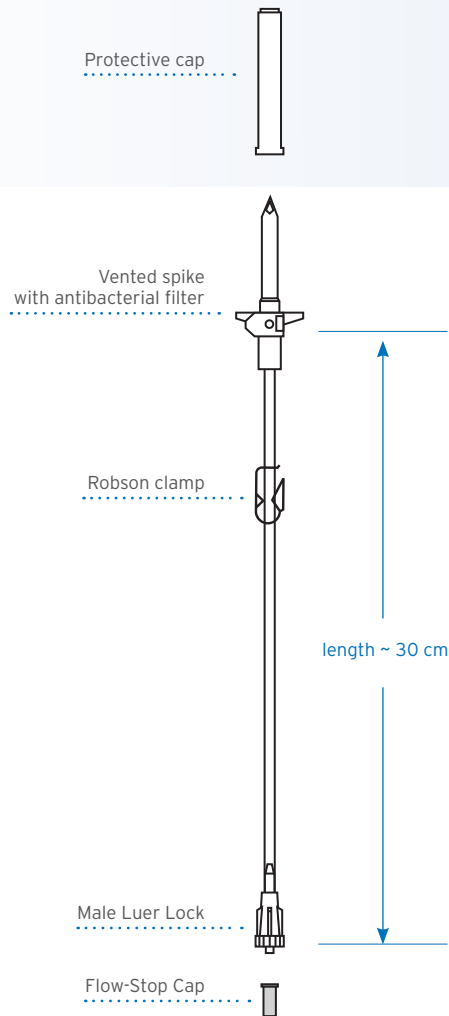
Not to be used for / in

- 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.

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)

Standard &
Primary Sets

Oncology
Sets

Transfusion
Sets

Paediatric
Sets

Parenteral
Nutrition Sets

Special
Sets

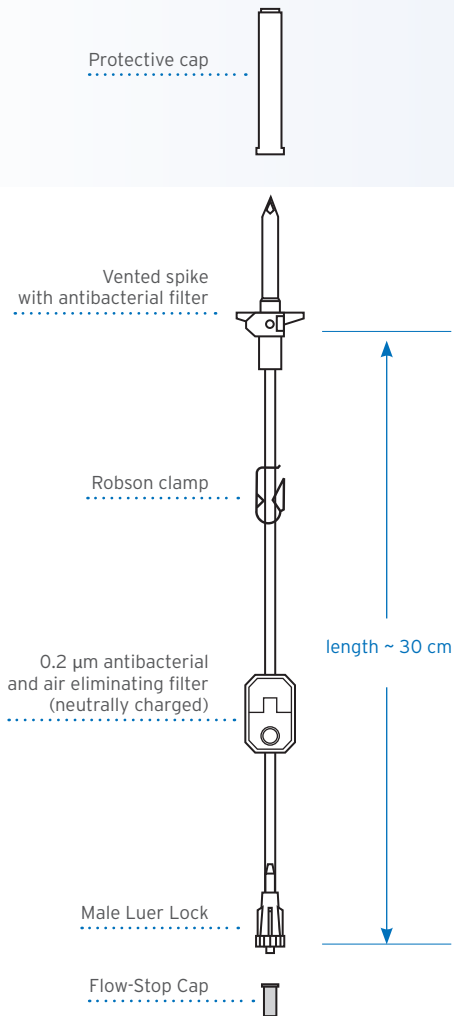
**Secondary
Sets**

Additional
Information

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 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

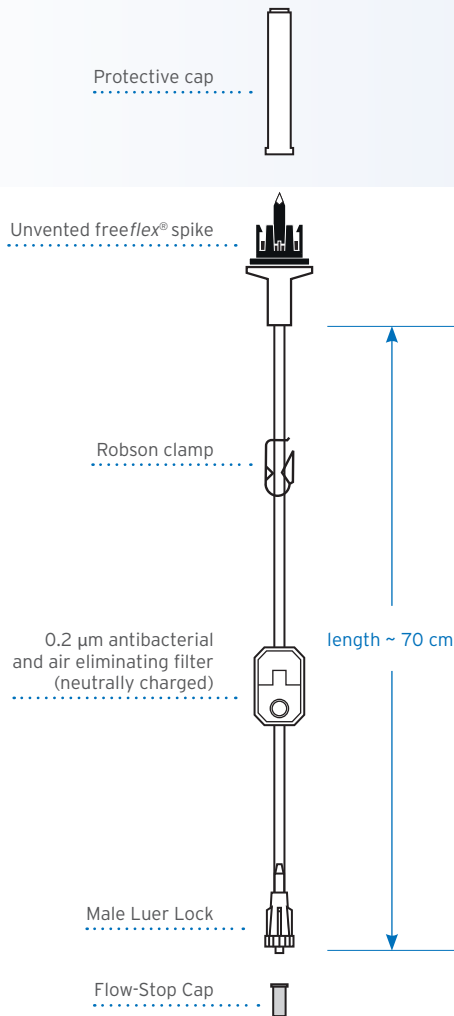
Not to be used for / in

- 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)

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 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.

Standard & Primary Sets

Oncology Sets

Transfusion Sets

Paediatric Sets

Parenteral Nutrition Sets

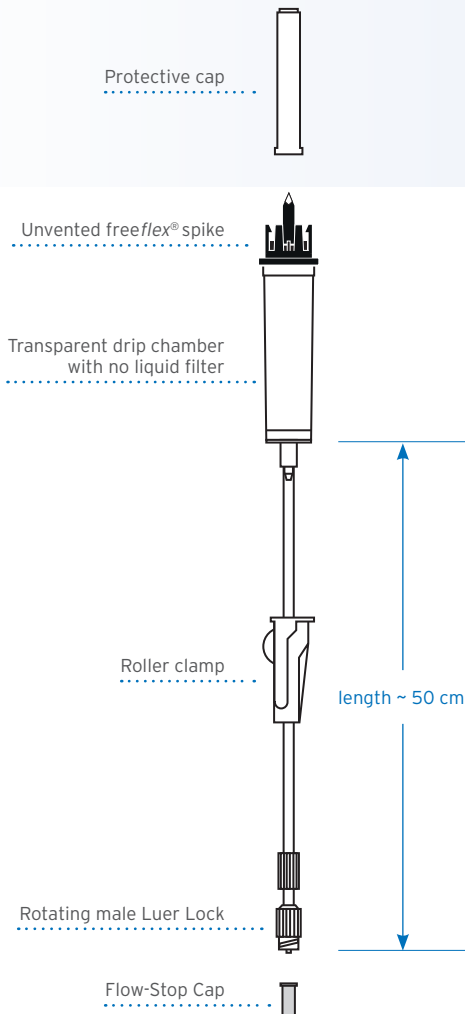
Special Sets

Secondary Sets

Additional 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

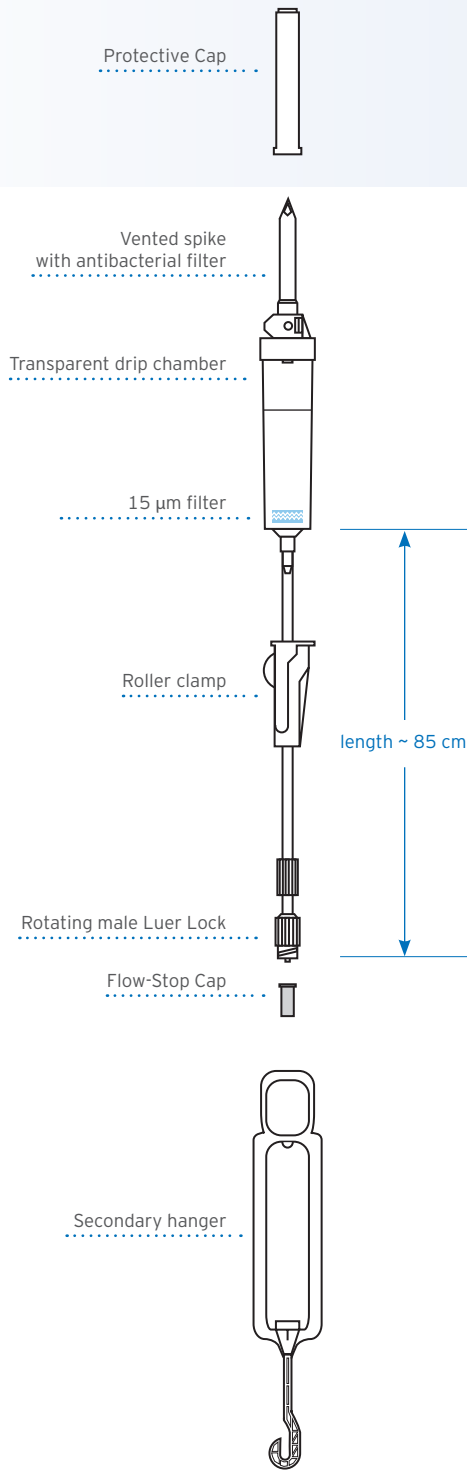
Not to be used for / in

- 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.

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.



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Standard &
Primary Sets

Oncology
Sets

Transfusion
Sets

Paediatric
Sets

Parenteral
Nutrition Sets

Special
Sets

Secondary
Sets

**Additional
Information**

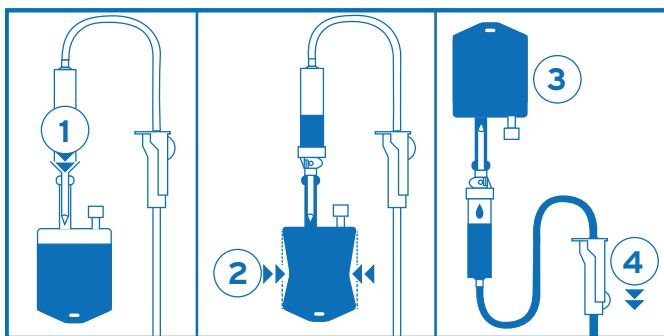
Sets

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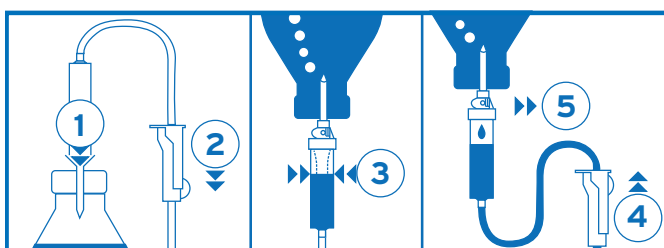
Priming of the set used with a bag

- 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.



Standard &
Primary Sets

Transfusion
Sets

Paediatric
Sets

Parenteral
Nutrition Sets

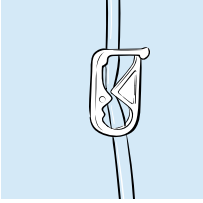


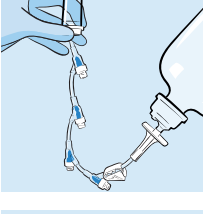
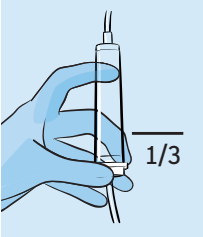
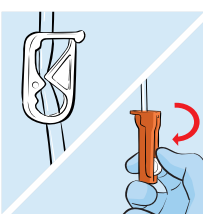
Special
Sets

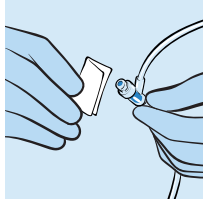
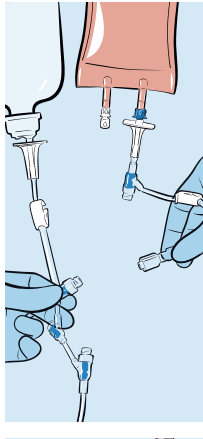

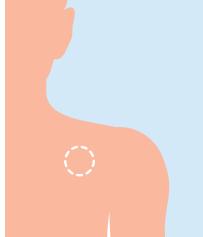
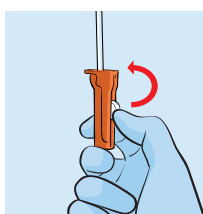
Secondary
Sets

Oncology
Sets

Additional
Information

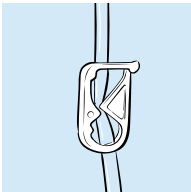
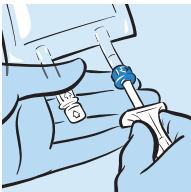
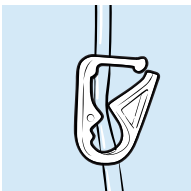
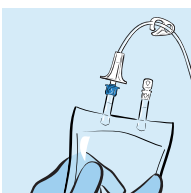
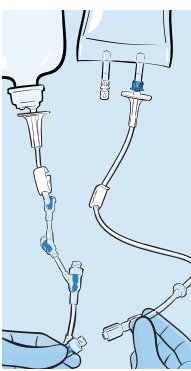
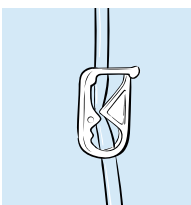
Handling recommendation of Standard Lines

| | |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 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. |

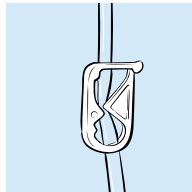
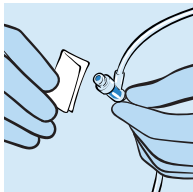
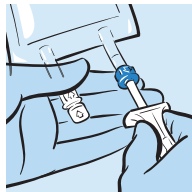

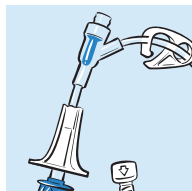
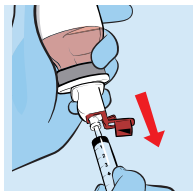
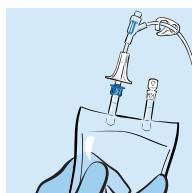
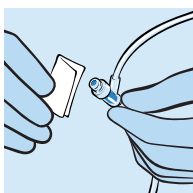
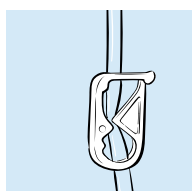
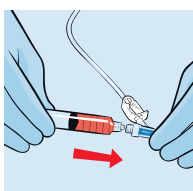
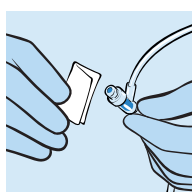
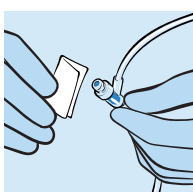
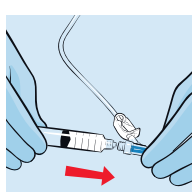
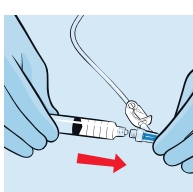
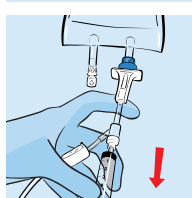
| | |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
|  | Disinfect needle-free access port of the Administration Set (Main Line). |
|  | Attach connector of Secondary Line to needle-free 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 upside-down and press it until the Secondary Line is completely deaired and filled with neutral solution. |
|  | Attach connector of Secondary Line to needle-free 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 needle-free access port. |
|  | Close clamp of Secondary Line. Be sure that the clamp is placed next to the needle-free access. Do not open clamp during the process again! It remains closed! |  | Connect syringe with cytostatic drug to needle-free access port and inject fluid. |
|  | Disinfect needle-free access port. |  | Disinfect needle-free access port at Secondary Line. |
|  | Connect syringe to needle-free 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.



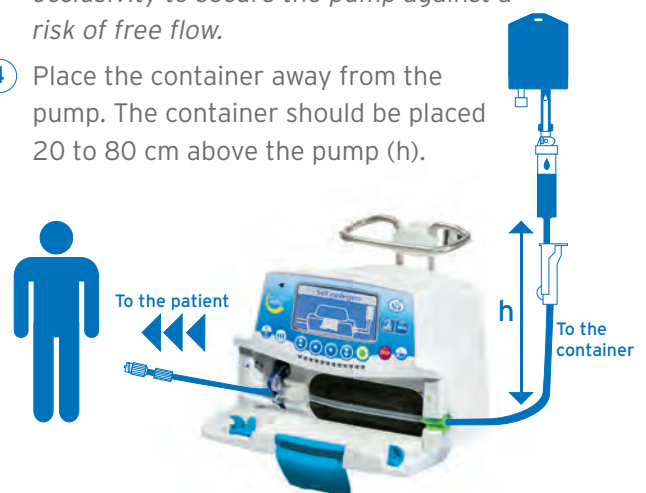
1. Align the tubing set horizontally along the tube guides so that the green connector is positioned to the right (green) and the blue clamp is positioned in front of the clamp guide (blue).

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).



Deinstallation of the infusion set

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


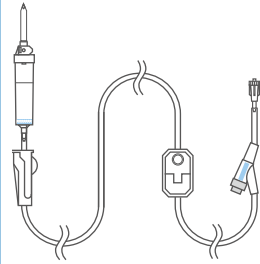


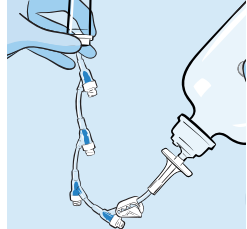

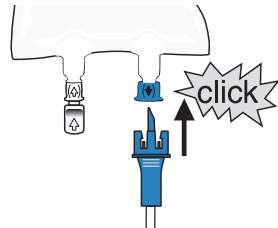


2. Release the Safe Clip.



Specific Features

Function, information and handling

| | Function | General information | Specific handling |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Filters | | | |
|  | <ul style="list-style-type: none"> Prevention of infusion of unwanted particles and organisms as well as small amounts of air Providing additional protection against bacterial contamination | <ul style="list-style-type: none"> Hydrophobic and hydrophilic membrane Hydrophobic membrane: <ul style="list-style-type: none"> Separates air from the fluid Vent the air out of the system through holes Size of membranes 0.02µm Hydrophilic membrane: <ul style="list-style-type: none"> Leads the fluid through the filter and keeps it in the system Size of the membrane 0.2µm | Priming needs to be done in flow-direction of filter.  |
| PVC free tubing | | | |
|  | <ul style="list-style-type: none"> Prevention of adsorption or absorption of drug (in)to tube as well as leaching of plasticiser from tube | <ul style="list-style-type: none"> Adsorption, absorption, or leaching of PVC might lead to: <ul style="list-style-type: none"> Loss of drug concentration Accidental infusion of plasticiser | |
| Needle-free access | | | |
|  | <ul style="list-style-type: none"> IV access device for needle-free injection and infusion via a Secondary Line and/or needle-free syringe | <ul style="list-style-type: none"> One-directional valve Infusion pressure: <ul style="list-style-type: none"> up to 2 bar Maximum flow rate: <ul style="list-style-type: none"> 10.900 ml/hour (183 ml/min) Double sealed; no air entrance during activation Tested for 72 h usage and 72 activations | Priming needs to be done with needle-free access upside down.  |
| freeflex® infusion line | | | |
|  | <ul style="list-style-type: none"> Guarantees a permanent connection between the freeflex® ensuring a closed system | The freeflex® portfolio with freeflex® infusion lines, freeflex® spike and freeflex® allows the following features: <ul style="list-style-type: none"> Secure and tight connection to the bag Easy to pierce with low risk of injury Color code: "blue to blue" | <ul style="list-style-type: none"> Please use lines equipped with the freeflex® set to fully gain advantages of the closed system freeflex® system can avoid accidental disconnection and prevent contamination with cytostatics  |

Standard & Primary Sets

Transfusion Sets

Paediatric Sets

Parenteral Nutrition Sets

Special Sets

Secondary Sets

Oncology Sets

Additional Information



Other products may be available and 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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