

# Volumat Lines

Infusion - Transfusion - Oncology -  
Paediatric - Parenteral Nutrition



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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# 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 volumetric infusion pumps.

The Agilia volumetric pumps and sets integrate state-of-the-art pumping mechanisms, to aid in accurate delivery of fluid in the clinical area.

Like all Agilia devices, the Volumat Agilia pumps and sets are very easy and intuitive to use.

### Notes

to remember

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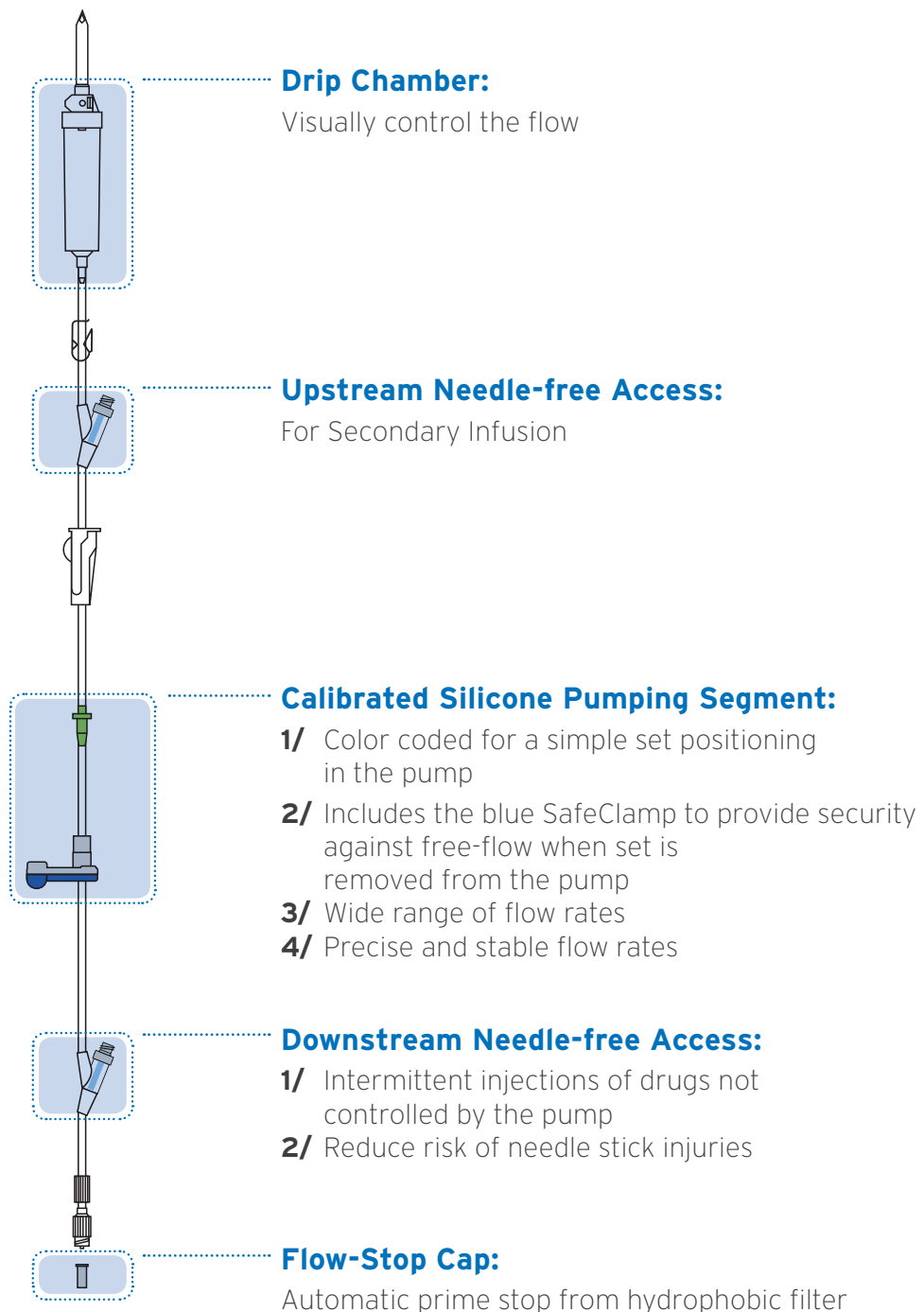
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# Volumat Lines available features



→ Dedicated pump set



\* DEHP as plasticizer is not used



# Volumat Lines



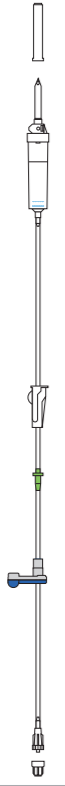
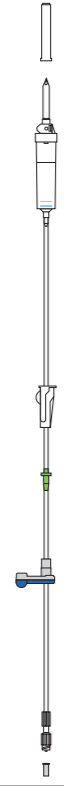












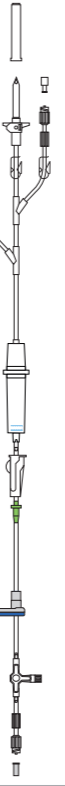


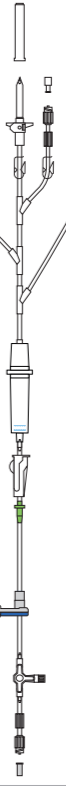
<b>Standard &amp; Primary Sets</b>	16
<ul style="list-style-type: none"> <li>• Standard sets are designed for infusion of drugs or solution</li> <li>• Primary sets are equipped with upstream needle-free access enabling the connection of secondary sets for Secondary Infusion</li> </ul>	
<b>Oncology Sets</b>	24
<ul style="list-style-type: none"> <li>• Equipped with upper needle-free or side lines</li> <li>• Certain oncology sets have special filter or materials</li> </ul>	
<b>Transfusion Sets</b>	48
<ul style="list-style-type: none"> <li>• Equipped with 200 <math>\mu\text{m}</math> filter allowing blood products to be administered</li> <li>• <i>Note: Blood products should only be administered with transfusion sets</i></li> </ul>	
<b>Paediatric Sets</b>	54
<ul style="list-style-type: none"> <li>• Equipped either with low diameter tube to limit the priming volume, or with burette to deliver a defined volume</li> <li>• <i>Note: Standard sets may be suitable for paediatric purposes in many situations</i></li> </ul>	
<b>Parenteral Nutrition Sets</b>	58
<ul style="list-style-type: none"> <li>• Equipped with 1.2 <math>\mu\text{m}</math> filter enabling filtration of solutions containing lipid solutions</li> <li>• <i>Note: When filtration of parenteral nutrition is not required, other standard infusion sets may also be suitable</i></li> </ul>	
<b>Special Sets</b>	62
<ul style="list-style-type: none"> <li>• Use special material or have a special configuration to allow infusion of certain drugs</li> </ul>	
<b>Secondary Sets</b>	66
<ul style="list-style-type: none"> <li>• Short lines, designed to be attached to primary sets</li> </ul>	
<b>Additional Information</b>	77



\* DEHP as plasticizer is not used

STANDARD AND PRIMARY SETS

ONCOLOGY SETS

DESIGNATION	VL ST00	VL ST10	VL ST01	VL ST02	VL ST02 ND	VL ST22	VL ST42	VL ST44	VL ON10	VL ON11	VL ON12	VL ON15	VL ON20	VL ON22	VL ON22 FX	VL ON30	VL ON40	VL ON401
ARTICLE REFERENCE	M46441000S	M46441300S	M46441600S	M46441900S	M46441980	M46442500S	M46442600S	M46443200	M46445500S	M46443900	M46444800	M46446600	M46445700S	M46444200S	M46444251	M46445900S	M46445100S	M46444001
APPLICATION	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion										
																		
SPIKE ● Vented / ● Non-vented/ freeflex®	●	●	●	●	●	●	●	●	●	●	●	●●	●	●	●	●	●●	●
DRIP CHAMBER ■ Inline	15 µm filter	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	15 µm filter	15 µm filter	15 µm filter	15 µm filter	15 µm filter	15 µm filter	15 µm filter	15 µm filter
ROBERTS CLAMP ▲ Upstream / ▼ Downstream					▼	▲	▲	▲▼	▲▲	▲	▲	▲▲▲	▲▲▲	▲	▲▼	▲▲▲▲	▲▲▲	▲▼
ONE-WAY CHECK VALVE							☑	☑										
NEEDLE-FREE ACCESS ▲ Upstream / ▼ Downstream				▼	▼	▲▼	▲▼	▲▼		▲	▲			▲▲	▲▲▼			▲▲▲▲▼
ROLLER CLAMP	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑ (3)	☑
ANTI-BACTERIAL / AIR ELIMINATING 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	~26 ml	~28 ml	~25 ml	~25 ml	~28 ml	~30 ml	~25 ml	~26 ml	~33 ml	~34 ml	~26 ml
LENGTH DOWNSTREAM	~170 cm	~170 cm	~170 cm	~170 cm	~170 cm	~170 cm	~170 cm	~170 cm	~200 cm	~170 cm	~170 cm	~200 cm	~200 cm	~170 cm	~145 cm	~200 cm	~200 cm	~140 cm
APPROXIMATE SET LENGTH	~285 cm	~285 cm	~285 cm	~285 cm	~285 cm	~285 cm	~270 cm	~280 cm	~310 cm	~270 cm	~270 cm	~310 cm	~310 cm	~270 cm	~270 cm	~310 cm	~310 cm	~270 cm
MAIN MATERIALS	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PUR, PP, SILICONE	PVC, SILICONE	PVC, SILICONE	PUR, PP, SILICONE	PUR, PP, SILICONE	PVC, SILICONE	PVC, SILICONE	PUR, PP, SILICONE
	PAGE 16	PAGE 17	PAGE 18	PAGE 19	PAGE 20	PAGE 21	PAGE 22	PAGE 23	PAGE 24	PAGE 25	PAGE 26	PAGE 27	PAGE 28	PAGE 29	PAGE 30	PAGE 31	PAGE 32	PAGE 33

ONCOLOGY SETS

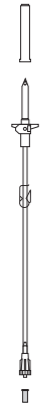
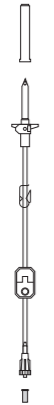








0.2 µm FILTER

LIGHT PROTECTED SETS

DESIGNATION	VL ON42	VL ON42 FX	VL ON42 SC	VL ON45	VL ON70	VL ON72	VL ON90	VL ON91		VL ON22 OP	VL ON22 OP NF	VL ON42 OP	VL ON42 OP NF	VL ON42 OP SC
ARTICLE REFERENCE	M46444000S	M46444051	M46444061	M46446700	M46444600S	M46444100S	M46444900S	M46444901		M46446000S	M46444230S	M46445801	M46444080S	M46444071
SPIKE ● Vented / ● Non-vented/ freeflex®	●	● freeflex®	●	●●	●	●	●	●		●	●	●	●	●
DRIP CHAMBER ■ Inline	15 µm filter	15 µm filter	15 µm filter	15 µm filter	15 µm filter	15 µm filter	15 µm filter	15 µm filter		15 µm filter	15 µm filter	15 µm filter	15 µm filter	15 µm filter
ROBERTS 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			☑											☑
ROTATING MALE LUER LOCK	☑	☑	☑	☑				☑		☑	☑	☑	☑	☑
FLOW-STOP CAP	☑	☑	☑	☑	☑	☑	☑	☑		☑	☑	☑	☑	☑
PRIMING VOLUME	~26 ml	~26 ml	~26 ml	~34 ml	~25 ml	~25 ml	~25 ml	~24 ml		~26 ml	~24 ml	~26 ml	~25 ml	~26 ml
LENGTH DOWNSTREAM	~140 cm	~145 cm	~150 cm	~170 cm	~170 cm	~180 cm	~160 cm	~150 cm		~170 cm	~150 cm	~150 cm	~150 cm	~150 cm
APPROXIMATE SET LENGTH	~270 cm	~270 cm	~270 cm	~280 cm	~285 cm	~270 cm	~285 cm	~255 cm		~300 cm	~265 cm	~270 cm	~275 cm	~270 cm
MAIN MATERIALS	PUR, PP, SILICONE	PUR, PP, SILICONE	PUR, PP, SILICONE	PVC, SILICONE	PUR, PP, SILICONE	PUR, PP, SILICONE	PUR, PP, SILICONE	PUR, PP, SILICONE		PUR, PP, SILICONE	PUR, PP, SILICONE	PUR, PP, SILICONE	PUR, PP, SILICONE	PUR, PP, SILICONE
	PAGE 34	PAGE 35	PAGE 36	PAGE 37	PAGE 38	PAGE 39	PAGE 40	PAGE 41		PAGE 42	PAGE 43	PAGE 44	PAGE 45	PAGE 46

DESIGNATION	TRANSFUSION SETS						PAEDIATRIC SETS				PARENTERAL NUTRITION SETS				SPECIAL SETS				
	200 µm FILTER						MICROBORE	BURETTE SETS			1.2 µm FILTER				SPECIAL APPLICATION	FREEFLEX® SPIKE LINE	200 µm FILTER	PRIMARY LINE	LIGHT PROTECTED TUBING
ARTICLE REFERENCE	VL TR00	VL TR12	VL TR21	VL TR22	VL TR42	VL TR43	VL PA02	VL PA92	VL PA93	VL PA94	VL PN00	VL PN02	VL PN20	VL PN00 FX	VL SP22	VL SP62	VL SP90	VL SP92	
APPLICATION	Transfusion	Transfusion	Infusion and Transfusion	Infusion and Transfusion	Infusion and Transfusion	Infusion and Transfusion	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion and Transfusion	Infusion	Infusion	Infusion	
	●	●	●	●	●	●	●	●	●	●	●	●	●	● freeflex®	●●	●	●	●	
	200 µm filter	200 µm filter	200 µm filter	200 µm filter	200 µm filter	200 µm filter	15 µm filter	150 ml burette 15 µm filter	150 ml burette 15 µm filter	150 ml burette 15 µm filter	15 µm filter	15 µm filter	15 µm filter	15 µm filter	200 µm filter	15 µm filter	15 µm filter	15 µm filter	
			▲	▲	▲	▲		▲					▲		▲▲				
					☑														
		▼	▲	▲▼	▲▼	▲▼	▼	▲▼	▲▼	▲▼					▼	▼		▼	
	☑	☑	☑	☑	☑	☑	☑	☑	☑ (2)	☑ (2)	☑	☑	☑	☑	☑	☑	☑	☑	
											☑ 1.2 µm filter	☑ 1.2 µm filter		☑ 1.2 µm filter					
	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	
	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	
	~25 ml	~25 ml	~25 ml	~26 ml	~25 ml	~25 ml	~16 ml	~25 ml	~25 ml	~25 ml	~26 ml	~25 ml	~26 ml	~26 ml	~30 ml	~25 ml	~25 ml	~25 ml	
	~170 cm	~170 cm	~170 cm	~170 cm	~170 cm	~170 cm	~110 cm	~170 cm	~170 cm	~170 cm	~170 cm	~180 cm	~170 cm	~170 cm	~170 cm	~170 cm	~170 cm	~180 cm	
	~285 cm	~270 cm	~290 cm	~285 cm	~270 cm	~270 cm	~180 cm	~300 cm	~300 cm	~300 cm	~285 cm	~290 cm	~280 cm	~280 cm	~290 cm	~285 cm	~270 cm	~270 cm	
	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	PVC, SILICONE	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	
	PAGE 48	PAGE 49	PAGE 50	PAGE 51	PAGE 52	PAGE 53	PAGE 54	PAGE 55	PAGE 56	PAGE 57	PAGE 58	PAGE 59	PAGE 60	PAGE 61	PAGE 62	PAGE 63	PAGE 64	PAGE 65	

SECONDARY SETS

DESIGNATION	SL	SL Filter	SL FX Filter	SL 20 FX ND	SL 00 DC	SL 00 FX	SL 00 OP	SL IP	SL OP IP	SL Filter IP
ARTICLE REFERENCE	M77460020	M77460025	M77460026	M77460033	M77460037	M77460062	M77460065	M77460069	M77460068	M77460070
APPLICATION	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion	Infusion
										
SPIKE ● Vented / ● Non-vented/ ● freeflex®	●	●	● freeflex®	● freeflex®	●	● freeflex®	●	●	●	●
DRIP CHAMBER ■ Inline				no liquid filter	15 µm filter					
ROBERTS 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							☑ 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	~2.5 ml	~2.5 ml	~2.6 ml	~2.6 ml	~5.3 ml
LENGTH DOWNSTREAM										
APPROXIMATE SET LENGTH	~38 cm	~48 cm	~78 cm	~65 cm	~85 cm	~45 cm	~45 cm	~43 cm	~43 cm	~43 cm
MAIN MATERIALS	PUR	PUR	PUR	PUR	PVC	PUR	PUR	PUR	PUR	PUR
	PAGE 66	PAGE 67	PAGE 68	PAGE 69	PAGE 70	PAGE 71	PAGE 72	PAGE 73	PAGE 74	PAGE 75





# Volumat Lines / Sets



	Sets for infusion	Sets for trans-fusion	Drip chamber filter [µm]	Special characteristics	Needle free access	Side lines	Drops / ml	Page
<b>Standard and Primary Sets</b>								
VL ST00	●		15					16
VL ST10	●		15					17
VL ST01	●		15	1 needle injection site				18
VL ST02	●		15		1			19
VL ST02 ND	●			no liquid filter	1			20
VL ST22	●		15		2			21
VL ST42	●		15	1 one-way check valve	2			22
VL ST44	●		15	1 one-way check valve	2			23
<b>Oncology Set</b>								
VL ON10	●		15	3-Way-Stopcock		1		24
VL ON11	●		15		1			25
VL ON12	●		15		1			26
VL ON15	●		15	2 spikes		1		27
VL ON20	●			3-Way-Stopcock		2		28
VL ON22	●		15		2			29
VL ON22 FX	●		15	freeflex® connection	3			30
VL ON30	●		15	3-Way-Stopcock		3		31
VL ON40	●		15	3-Way-Stopcock, 2 spikes		3		32
VL ON401	●		15		5			33
VL ON42	●		15		4			34
VL ON42 FX	●		15	freeflex® connection	5			35
VL ON42 SC	●		15	3-Way-Stopcock	4			36
VL ON45	●		15	2 spikes		4		37
VL ON70	●		15	0.2 µm air eliminating filter				38
VL ON72	●		15	0.2 µm air eliminating filter	1			39
VL ON90	●		15	light protection				40
VL ON91	●		15	light protection	1			41
VL ON22 OP	●		15	light protection	2			42
VL ON22 OP NF	●		15	light protection	3			43
VL ON42 OP	●		15	light protection	4			44
VL ON42 OP NF	●		15	light protection	5			45
VL ON42 OP SC	●		15	3-Way-Stopcock, light protection	4			46
<b>Transfusion Sets</b>								
VL TR00		●	200					48
VL TR12		●	200		1			49
VL TR21	●	●	200		1			50
VL TR22	●	●	200		2			51
VL TR42	●	●	200	1 one-way check valve	2			52
VL TR43	●	●	200		2			53

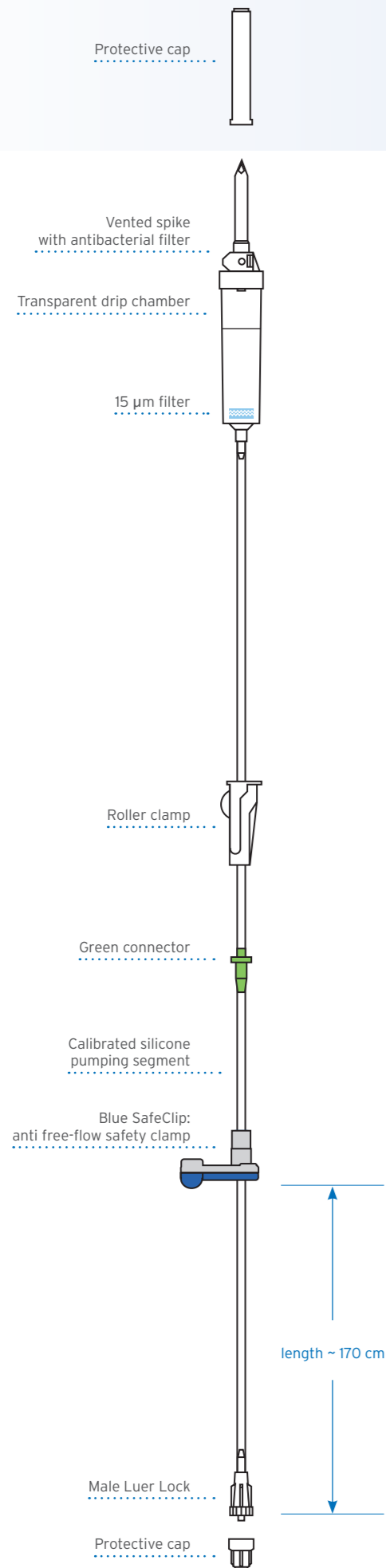
\* DEHP as plasticizer is not used

	Sets for infusion	Sets for trans-fusion	Drip chamber filter [µm]	Special characteristics	Needle free access	Side lines	Drops / ml	Page
<b>Paediatric Sets</b>								
VL PA02	●		15	microbore tube	1		60	54
VL PA92	●		15	burette set	2		20	55
VL PA93	●		15	burette set	2		20	56
VL PA94	●		15	burette set	2		60	57
<b>Parenteral Nutritional Sets</b>								
VL PN00	●		15	1.2 µm air eliminating filter				58
VL PN02	●		15	1.2 µm air eliminating filter	1			59
VL PN20	●		15	upstream Luer Lock connection				60
VL PN00 FX	●		15	freeflex® connection, 1.2 µm air eliminating filter				61
<b>Special Sets</b>								
VL SP22	●	●	200	2 spikes	1			62
VL SP62	●		15		1			63
VL SP90	●		15	light protected tubing				64
VL SP92	●		15	light protected tubing	1			65
<b>Secondary Sets</b>								
SL	●							66
SL Filter	●			0.2 µm air eliminating filter				67
SL FX Filter	●			freeflex® connection, 0.2 µm air eliminating filter				68
SL 20 FX ND	●			freeflex® connection, no drip chamber filter				69
SL 00 DC	●		15	secondary hanger				70
SL 00 FX	●			freeflex® connection				71
SL 00 OP	●							72
SL IP	●			injection port	1			73
SL OP IP	●			injection port	1			74
SL FILTER IP	●			0.2 µm air eliminating filter, injection port	1			75

Standard & Primary Sets  
Oncology Sets  
Transfusion Sets  
Paediatric Sets  
Parenteral Nutrition Sets  
Special Sets  
Secondary Sets  
Additional Information

## VL ST00

ref. M46441000S



**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
- DEHP as plasticizer is not used
- 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

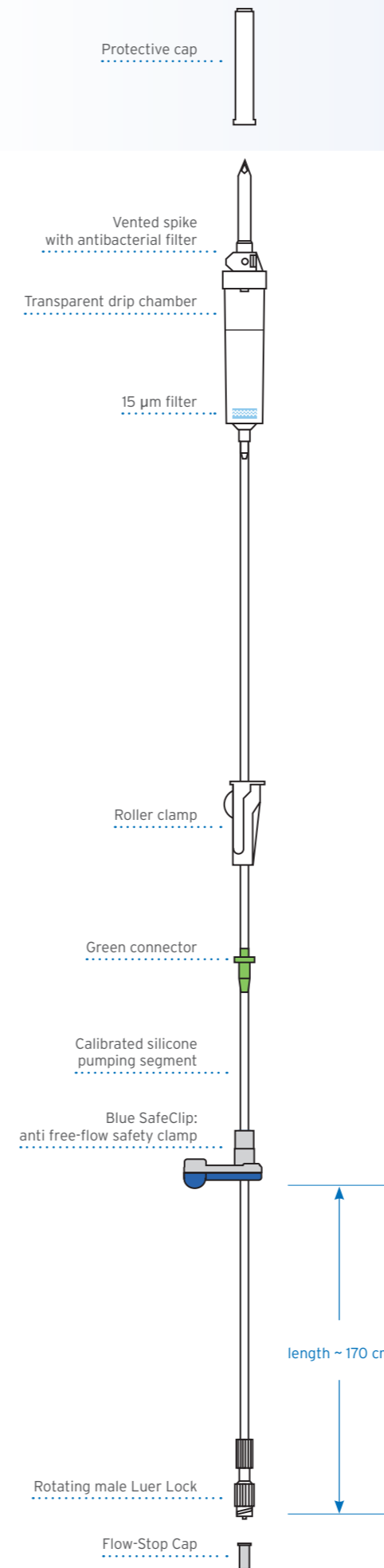
**Not to be used for / in**

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- 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 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 as plasticizer is not used
- 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**

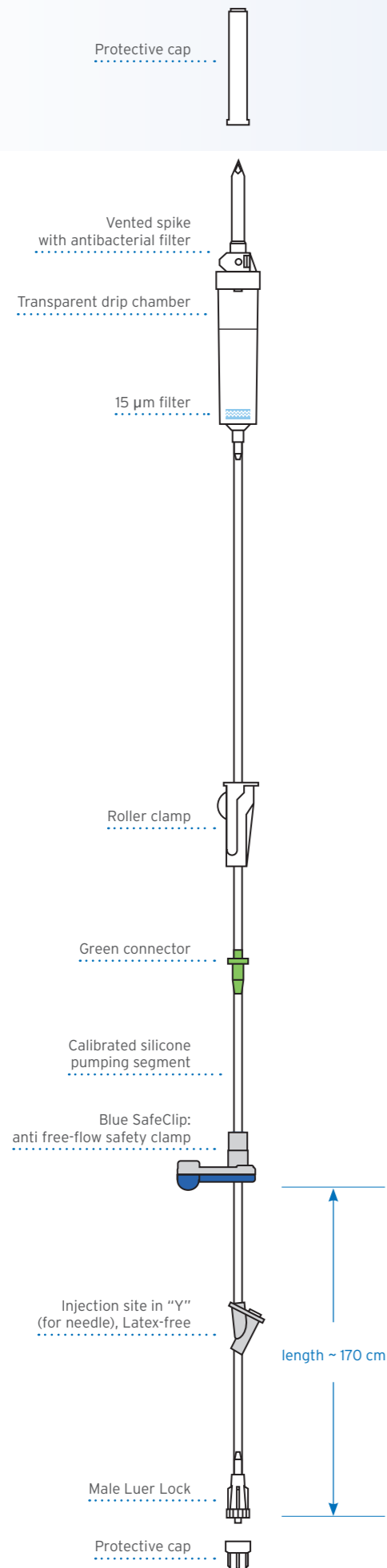
- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Primary / secondary mode with Volumat MC Agilia / Agilia VP MC

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 ST01

ref. M46441600S



**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 needle access for emergency application
- Anti free-flow safety clamp
- DEHP as plasticizer is not used
- 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

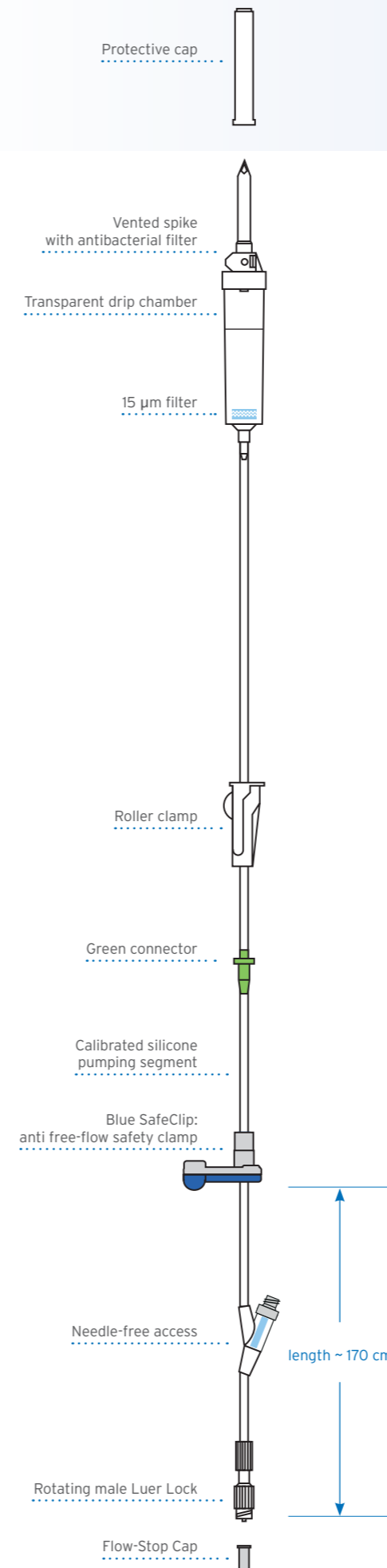
**Not to be used for / in**

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

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**

- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP as plasticizer is not used
- 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**

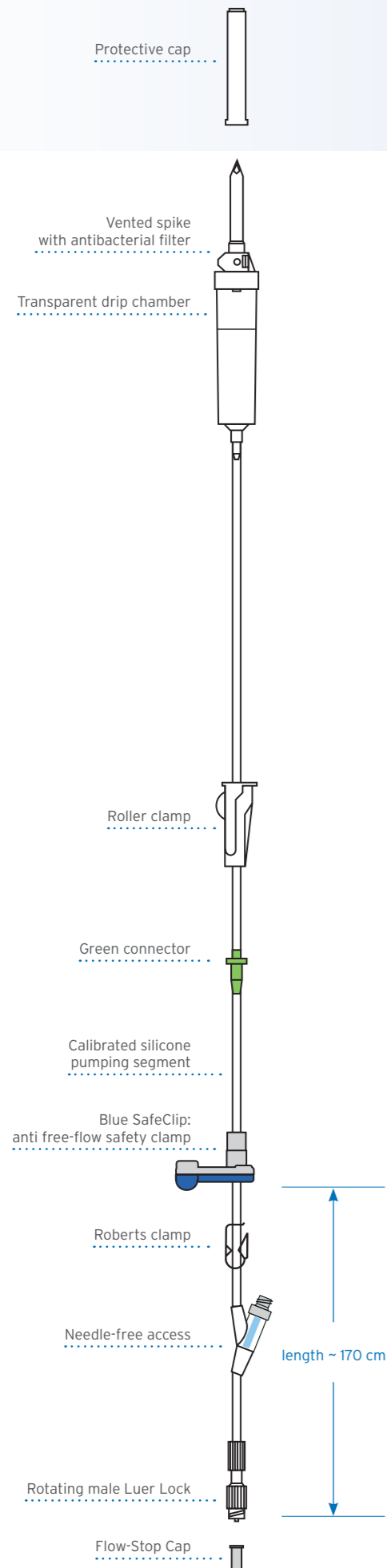
- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needle-free access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- 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
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP as plasticizer is not used
- 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

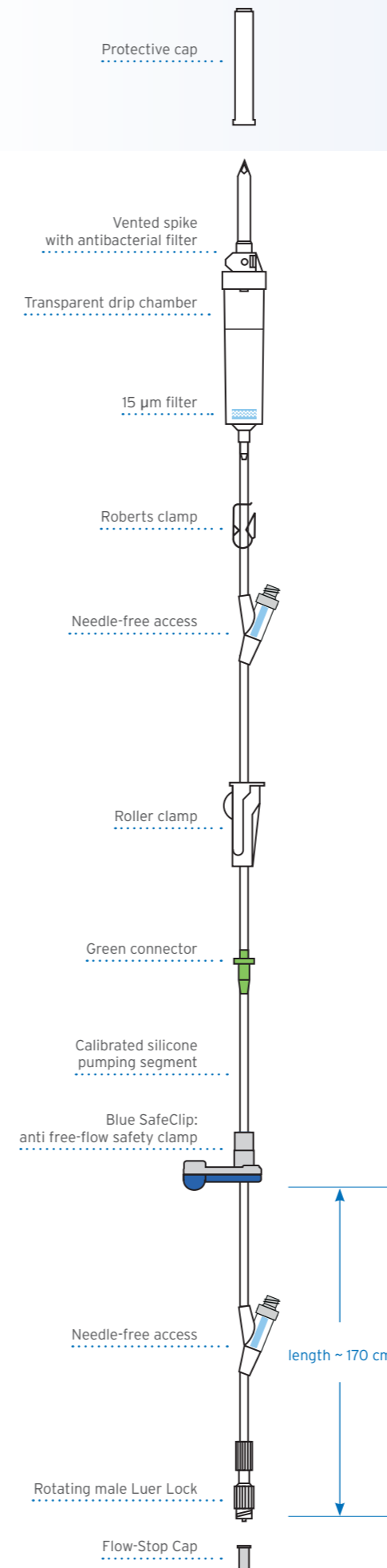
**Not to be used for / in**

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- 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)
- 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 as plasticizer is not used
- 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**

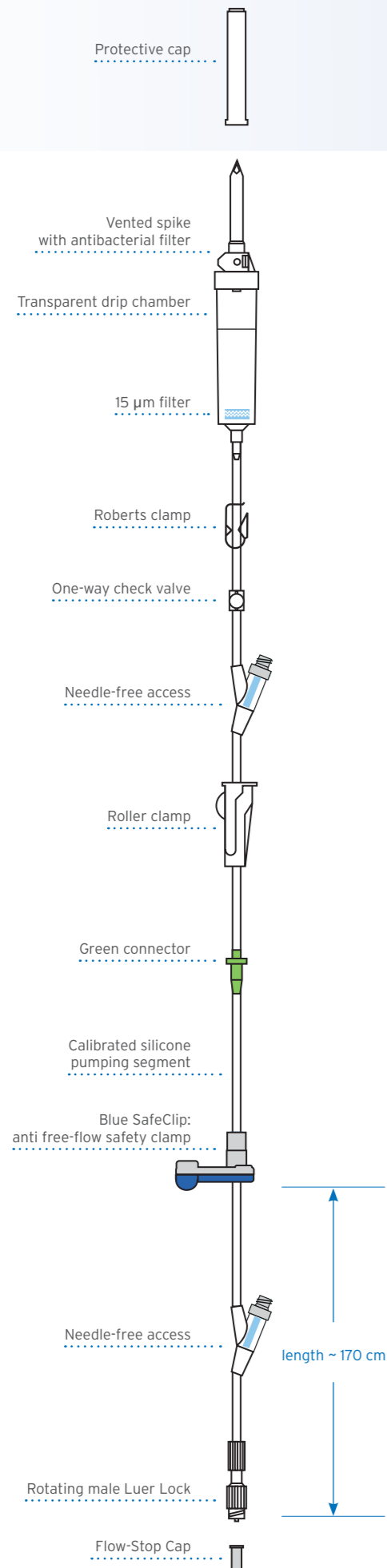
- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needle-free access. Should not be used to connect a gravity line (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 ST42

ref. M46442600S



**Approximate set length:**

270 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**

- One-way check valve
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP as plasticizer is not used
- 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
- Infusion of different drugs in the same set with use of Secondary Lines
- Manual primary / secondary mode with Volumat MC Agilia / Agilia VP MC
- Automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC

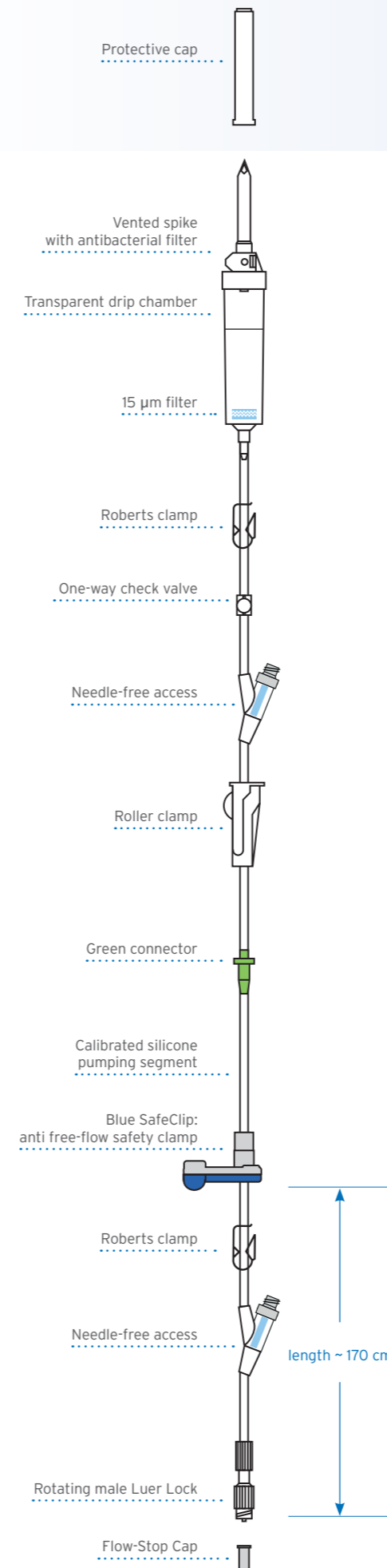
**Not to be used for / in**

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- 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.

## VL ST44

ref. M46443200



**Approximate set length:**

280 cm

**Approximate priming volume:**

26 ml

**Main materials:**

PVC (tubing: diameter 3.0 x 4.1 mm)

Silicone (tubing: diameter 3.41 x 5.11 mm)

**Advantages**

- One-way check valve
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP as plasticizer is not used
- 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
- Automatic primary / secondary mode with Volumat MC Agilia / Agilia VP MC

**Not to be used for / in**

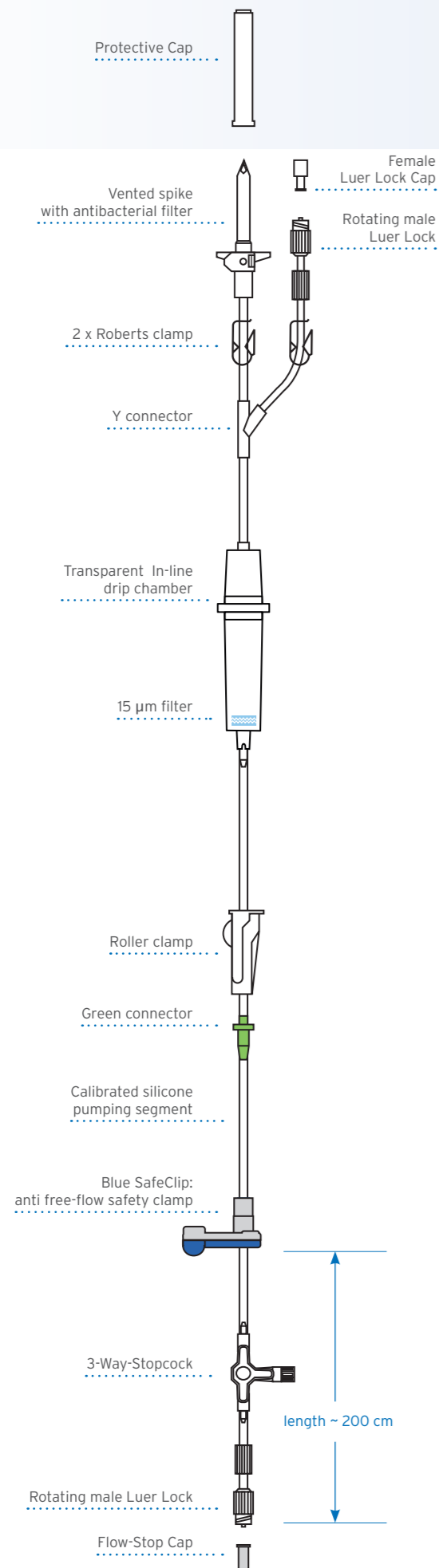
- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needle-free access. Should not be used to connect a gravity line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



# VL ON10

ref. M46445500S



**Approximate set length:**

310 cm

**Approximate priming volume:**

28 ml

**Main materials:**

PVC (tubing: diameter 3.0 x 4.1 mm)

Silicone (tubing: diameter 3.41 x 5.11 mm)

**Advantages**

- Possible use with bags equipped with Luer Lock connector
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP as plasticizer is not used
- Latex-free

**Packaging**

- Case quantity: 30 x 1

**Typical applications**

- Infusion of drugs / fluids
  - available in bags with female Luer Lock (side line)
  - available in bags or bottles
  - having no particular filtration requirements
  - 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 / Volumat MC Agilia VP MC
- Secondary Infusion

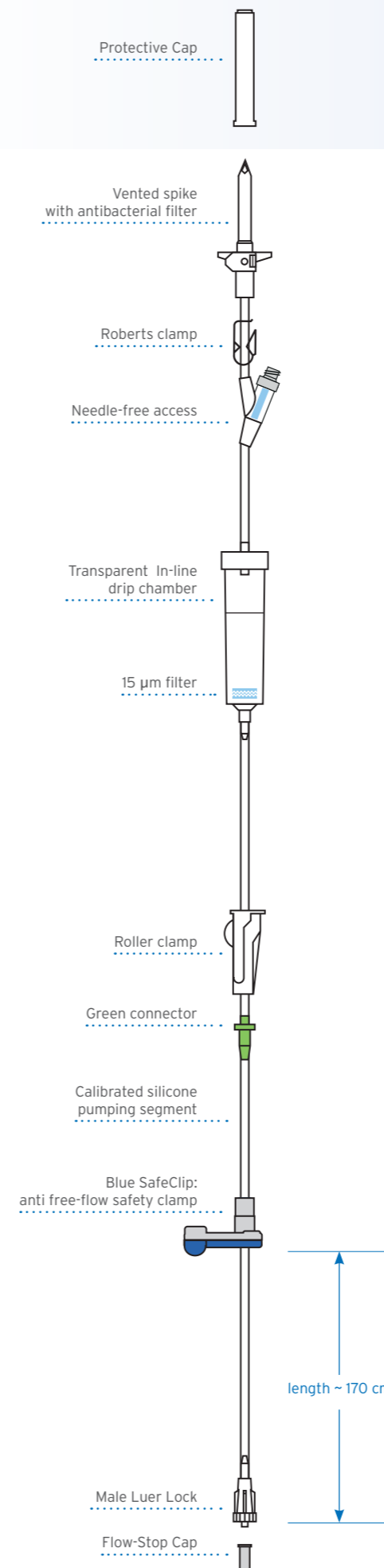
**Not to be used for / in**

- Blood cells
- Spikeable bags nor bottles in side line
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- 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 ON11

ref. M46443900



**Approximate set length:**

270 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 as plasticizer is not used
- 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 / Volumat MC Agilia VP MC

**Not to be used for / in**

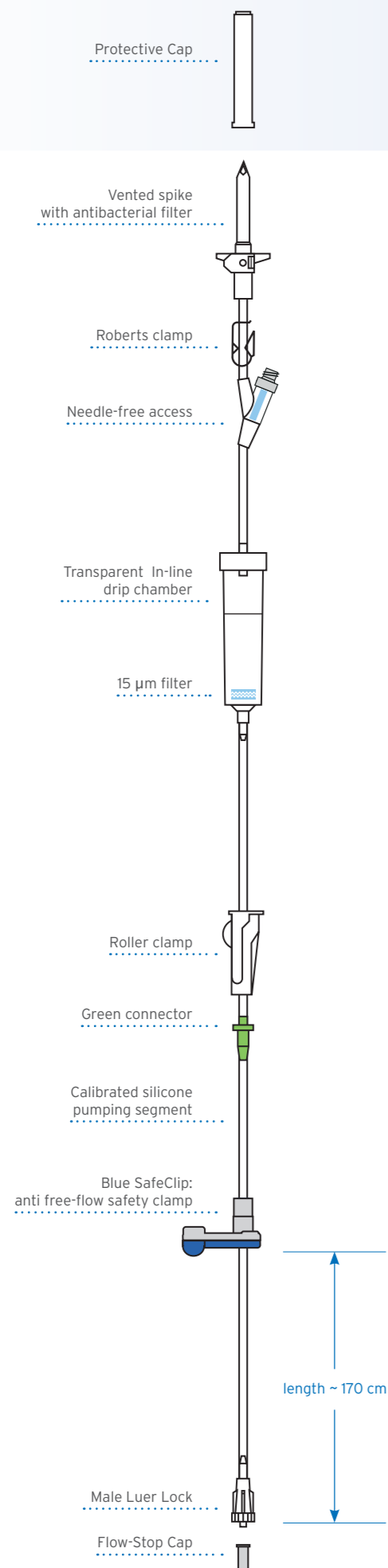
- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needle-free access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- Automatic primary / secondary mode with Volumat MC Agilia / 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 ON12

ref. M46444800



**Approximate set length:**

270 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**

- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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 non 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

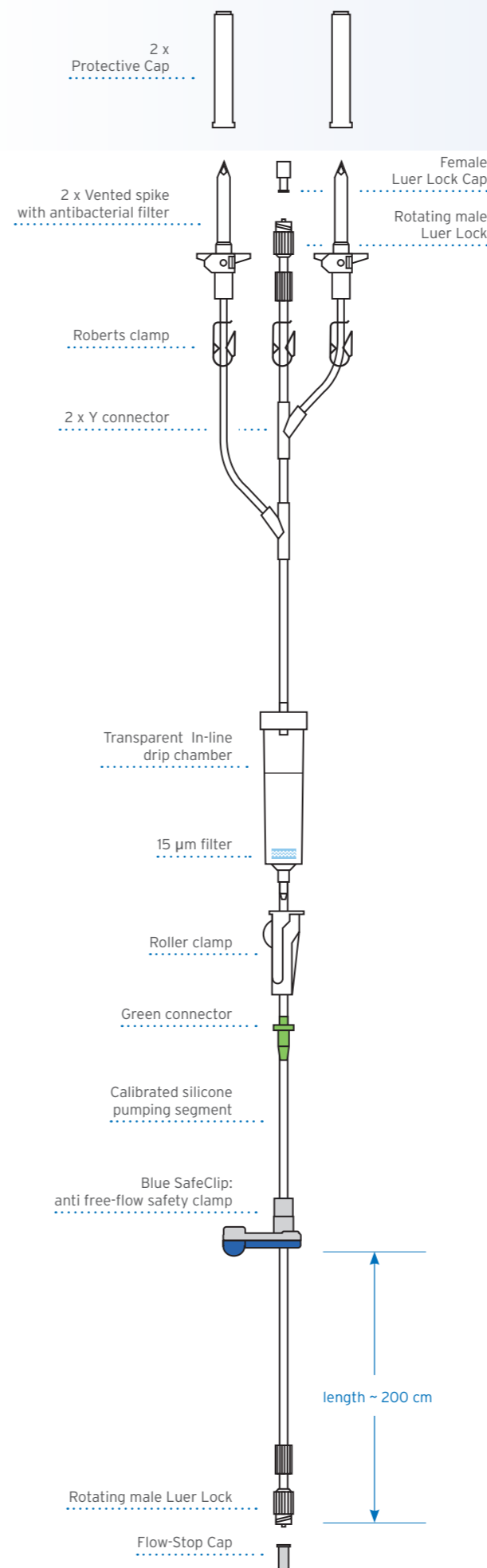
**Not to be used for / in**

- Blood cells
- 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 / 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 ON15

ref. M46446600



**Approximate set length:**

310 cm

**Approximate priming volume:**

28 ml

**Main materials:**

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

**Advantages**

- Possible use with bags equipped with Luer Lock connector
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP as plasticizer is not used
- Latex-free

**Packaging**

- Case quantity: 30 x 1

**Typical applications**

- Infusion of drugs / fluids
  - available in bags with female Luer Lock (side line)
  - available in bags or bottles
  - having no particular filtration requirements
  - 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 / Volumat MC Agilia VP MC
- Secondary infusion

**Not to be used for / in**

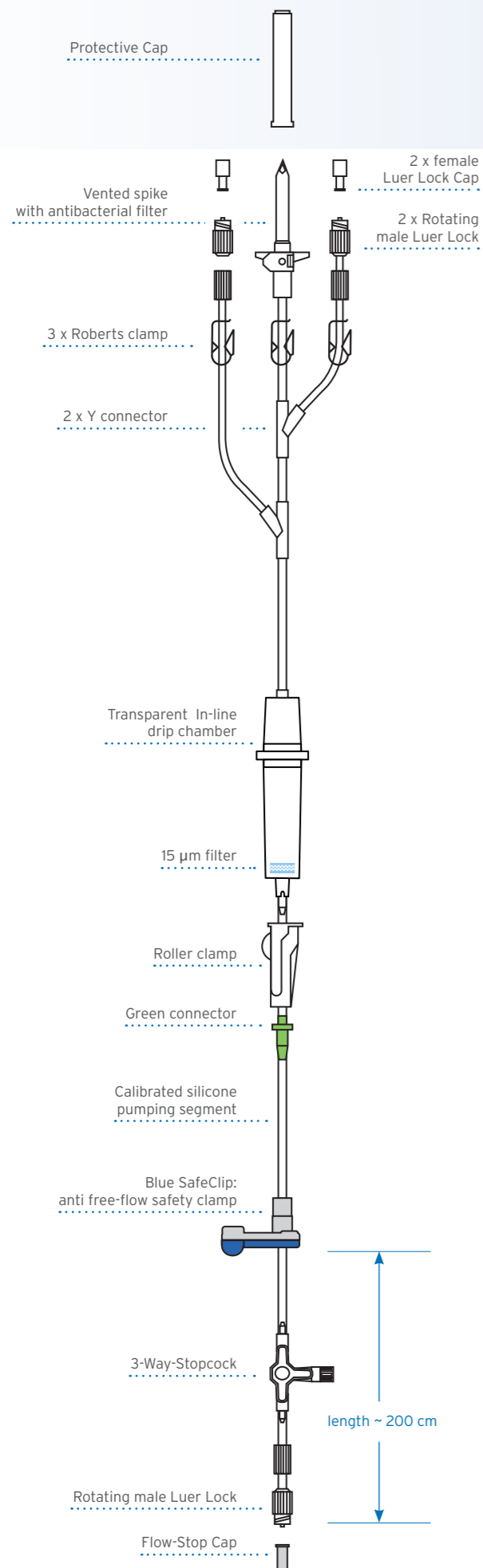
- Blood cells
- Infusion of drugs to be known to be incompatible with PVC (e.g. trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Automatic primary / secondary mode with Volumat MC Agilia / 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 ON20

ref. M46445700S



### Approximate set length:

310 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

- Possible use with bags equipped with Luer Lock connector
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP as plasticizer is not used
- Latex-free

### Packaging

- Case quantity: 30 x 1

### Typical applications

- Infusion of drugs / fluids
  - available in bags with female Luer Lock (side line)
  - available in bags or bottles
  - having no particular filtration requirements
  - 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 / Volumat MC Agilia VP MC
- Secondary Infusion

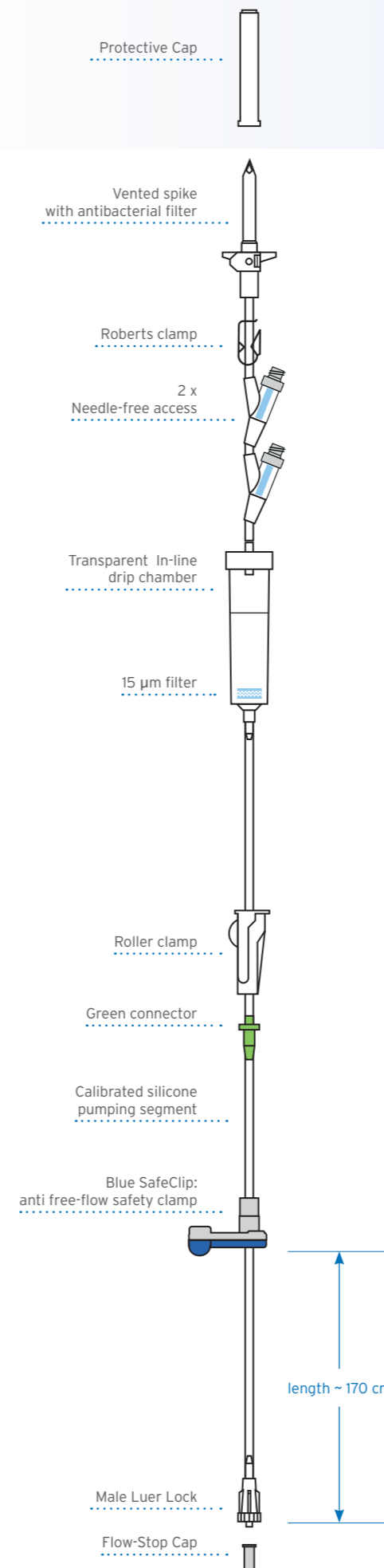
### Not to be used for / in

- Blood cells
- Spikeable bags nor bottles in side line
- Infusion of drugs known to be incompatible with PVC (e.g. trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- 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 ON22

ref. M46444200



### Approximate set length:

270 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

- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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 non 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
- 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 / Volumat MC Agilia VP MC

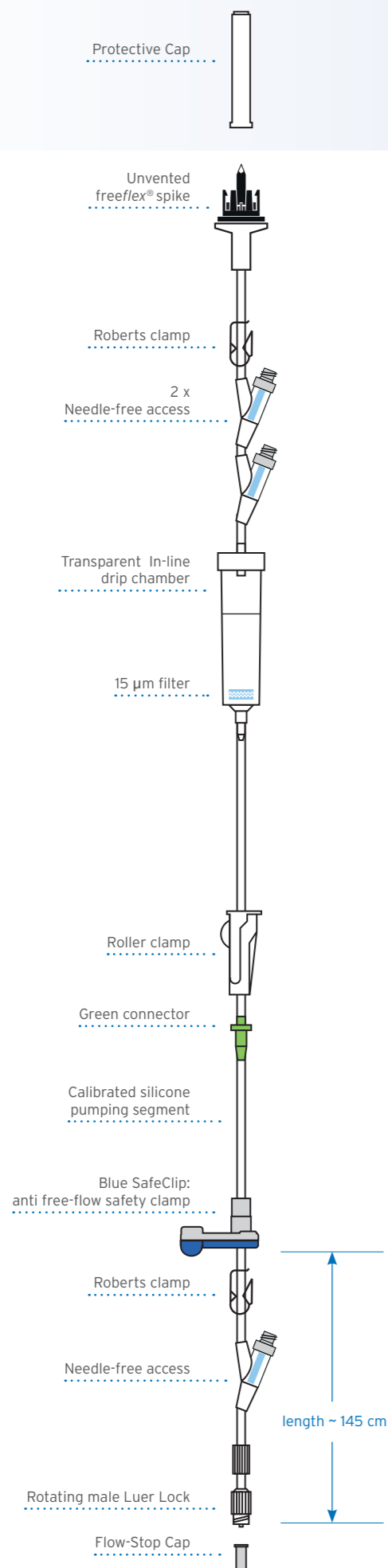
Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.





## VL ON22 FX

ref. M46444251



### Approximate set length:

270 cm

### Approximate priming volume:

26 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

- Tight and secure connection with freeflex® / freeflex®+, ensuring a permanent connection avoiding spillages
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- Latex-free

### Packaging

- Case quantity: 30 x 1

### Typical applications

- Only use with Fresenius Kabi freeflex® / freeflex®+ Bags
- Infusion of drugs / fluids
  - having no particular filtration requirements
  - having no particular incompatibility
- Infusion of drugs non 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

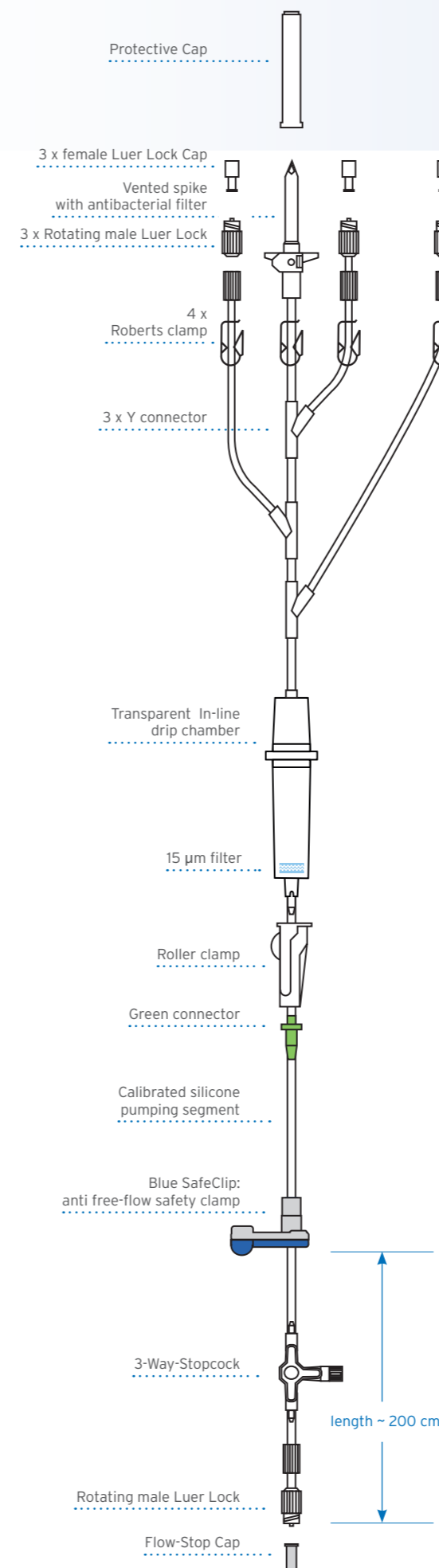
### Not to be used for / in

- Bottles
- Standard bags
- Blood cells
- 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 one-way 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 ON30

ref. M46445900S



### Approximate set length:

310 cm

### Approximate priming volume:

33 ml

### Main materials:

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

### Advantages

- Possible use with bags equipped with Luer Lock connector
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP as plasticizer is not used
- Latex-free

### Packaging

- Case quantity: 30 x 1

### Typical applications

- Infusion of drugs / fluids
  - available in bags with female Luer Lock (side line)
  - available in bags or bottles
  - having no particular filtration requirements
  - 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 / Volumat MC Agilia VP MC
- Secondary Infusion

### Not to be used for / in

- Blood cells
- Spikeable bags nor bottles in side line
- Infusion of drugs known to be incompatible with PVC (e.g. trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- 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 ON40

ref. M46445100S

**Approximate set length:**

310 cm

**Approximate priming volume:**

34 ml

**Main materials:**

PVC (tubing: diameter 3.0 x 4.1 mm)

Silicone (tubing: diameter 3.41 x 5.11 mm)

**Advantages**

- Possible use with bags equipped with Luer Lock connector
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP as plasticizer is not used
- Latex-free

**Packaging**

- Case quantity: 25 x 1

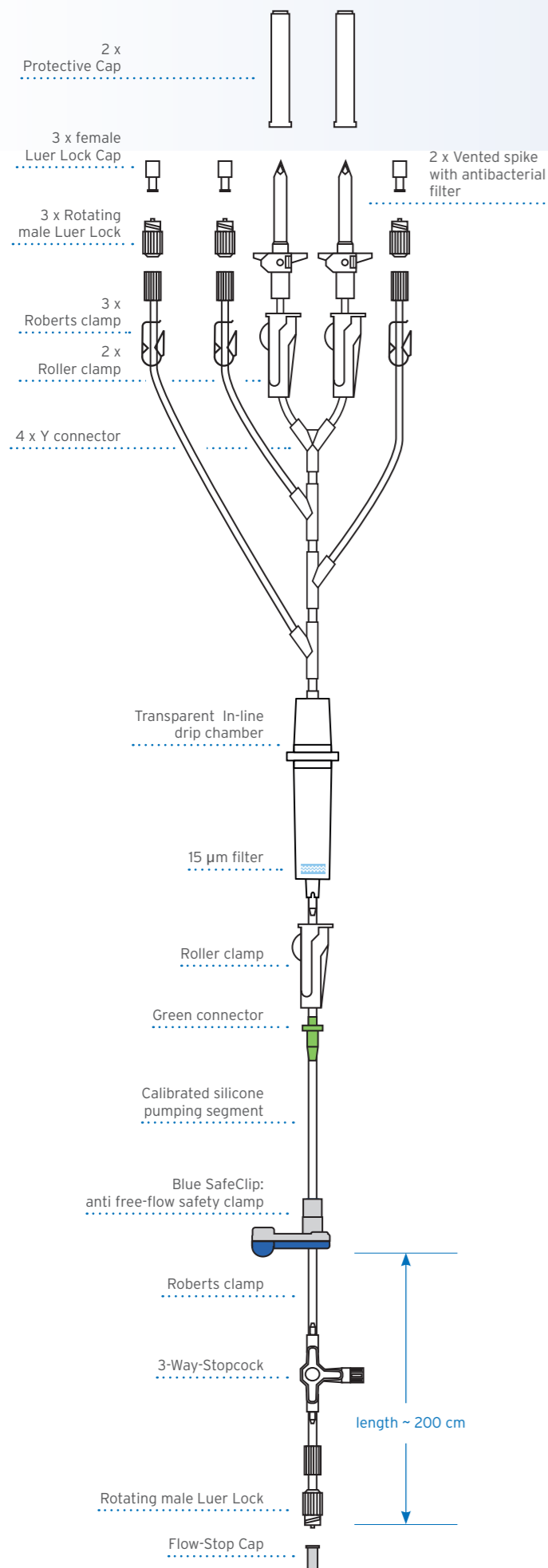
**Typical applications**

- Infusion of drugs / fluids
  - available in bags with female Luer Lock (side line)
  - available in bags or bottles
  - having no particular filtration requirements
  - 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 / Volumat MC Agilia VP MC
- Secondary Infusion

**Not to be used for / in**

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- 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 ON401

ref. M46444001

**Approximate set length:**

270 cm

**Approximate priming volume:**

26 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**

- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- Latex-free

**Packaging**

- Case quantity: 30 x 1

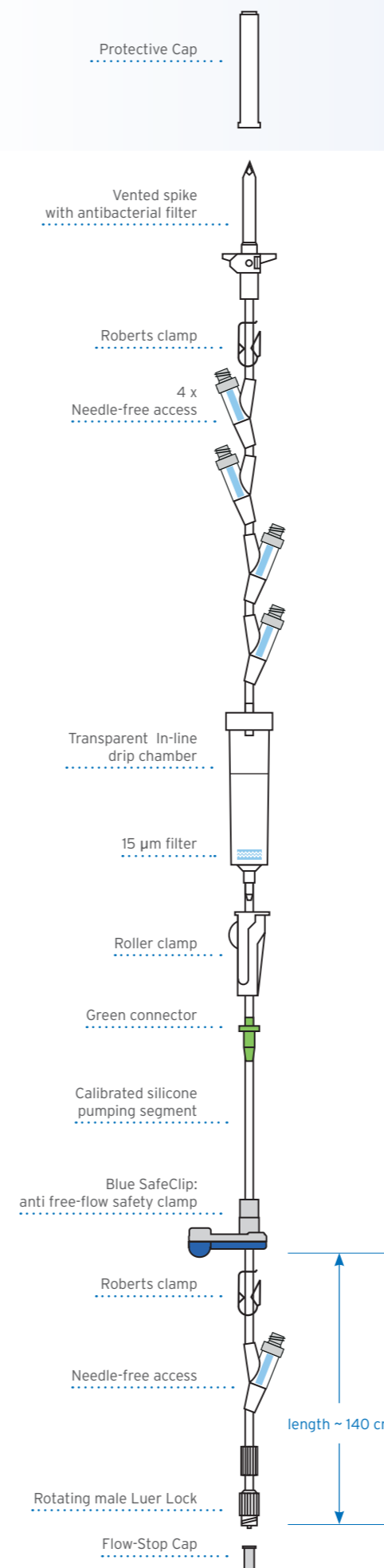
**Typical applications**

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

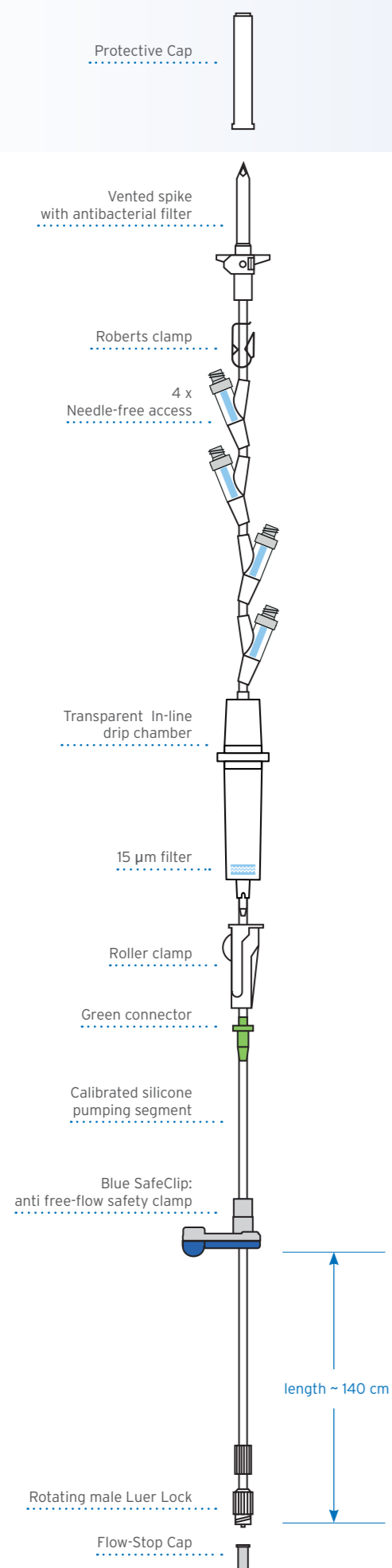
- Blood cells
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needle-free access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- Automatic primary / secondary mode with Volumat MC Agilia / Volumat MC 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

ref. M46444000S



**Approximate set length:**

270 cm

**Approximate priming volume:**

26 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**

- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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 non 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

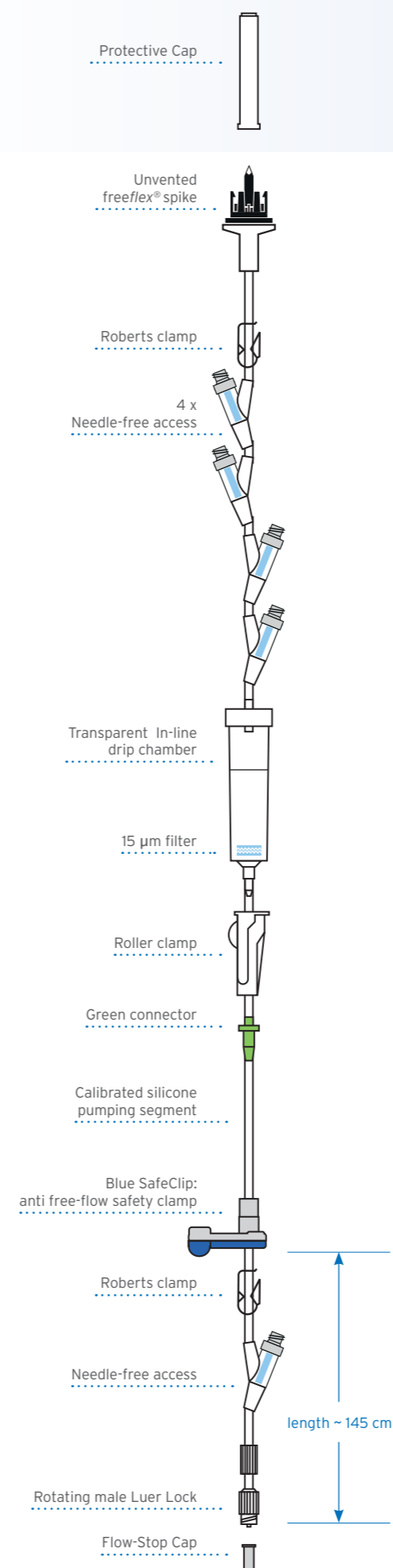
**Not to be used for / in**

- Blood cells
- 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 / 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 FX

ref. M46444051



**Approximate set length:**

270 cm

**Approximate priming volume:**

26 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**

- Tight and secure connection with freeflex® / freeflex®+, ensuring a permanent connection avoiding spillages
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- Latex-free

**Packaging**

- Case quantity: 25 x 1

**Typical applications**

- Only use with Fresenius Kabi freeflex® / freeflex®+ Bags
- Infusion of drugs / fluids
  - having no particular filtration requirements
  - having no particular incompatibility
- Infusion of drugs non 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**

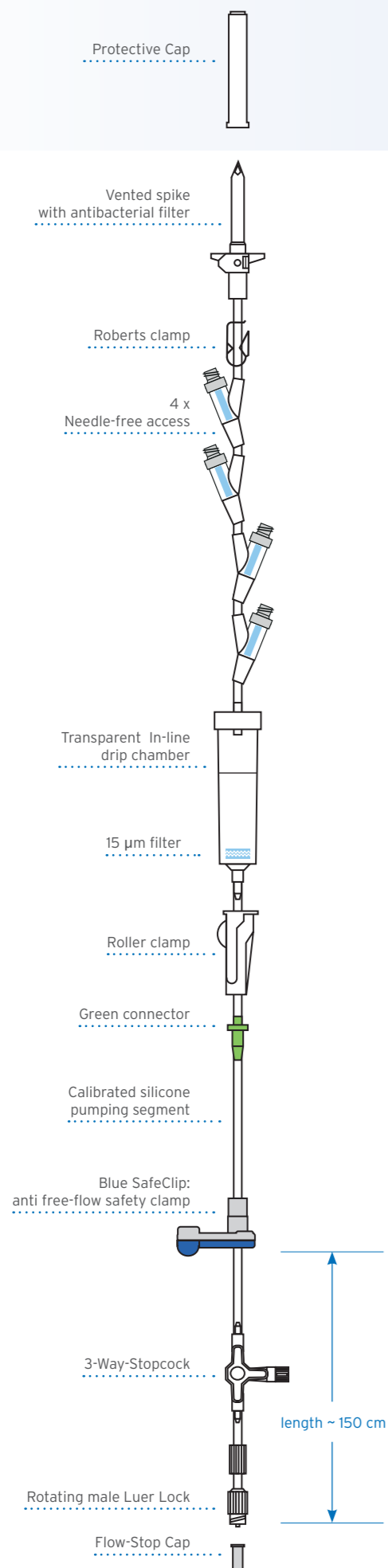
- Bottles
- Standard bags
- Blood cells
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needle-free access. Should not be used to connect a gravity line (unless it is protected by a one-way check valve)
- Automatic primary / secondary mode with 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 SC

ref. M46444061



**Approximate set length:**  
270 cm

**Approximate priming volume:**  
26 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**

- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- Latex-free

**Packaging**

- Case quantity: 25 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 non 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

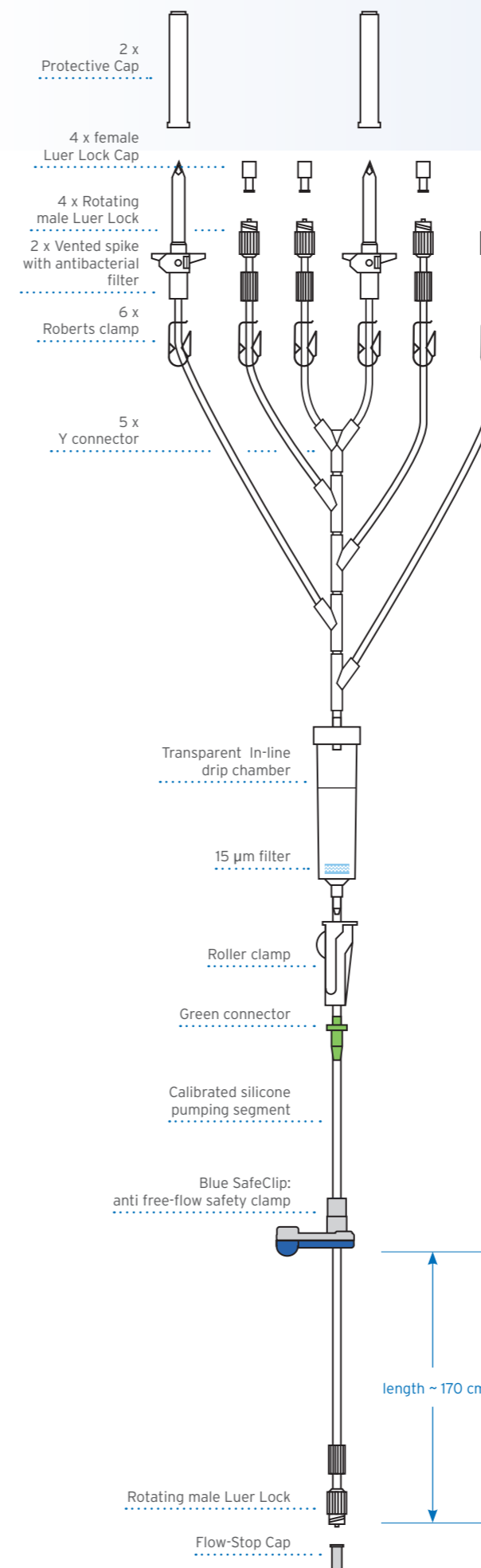
**Not to be used for / in**

- Blood cells
- 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 / 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 ON45

ref. M46446700



**Approximate set length:**  
280 cm

**Approximate priming volume:**  
34 ml

**Main materials:**

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

**Advantages**

- Possible use with bags equipped with Luer Lock connector
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP as plasticizer is not used
- Latex-free

**Packaging**

- Case quantity: 25 x 1

**Typical applications**

- Infusion of drugs / fluids
  - available in bags with female Luer Lock (side line)
  - available in bags or bottles
  - having no particular filtration requirements
  - 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 / Volumat MC Agilia VP MC
- Secondary Infusion

**Not to be used for / in**

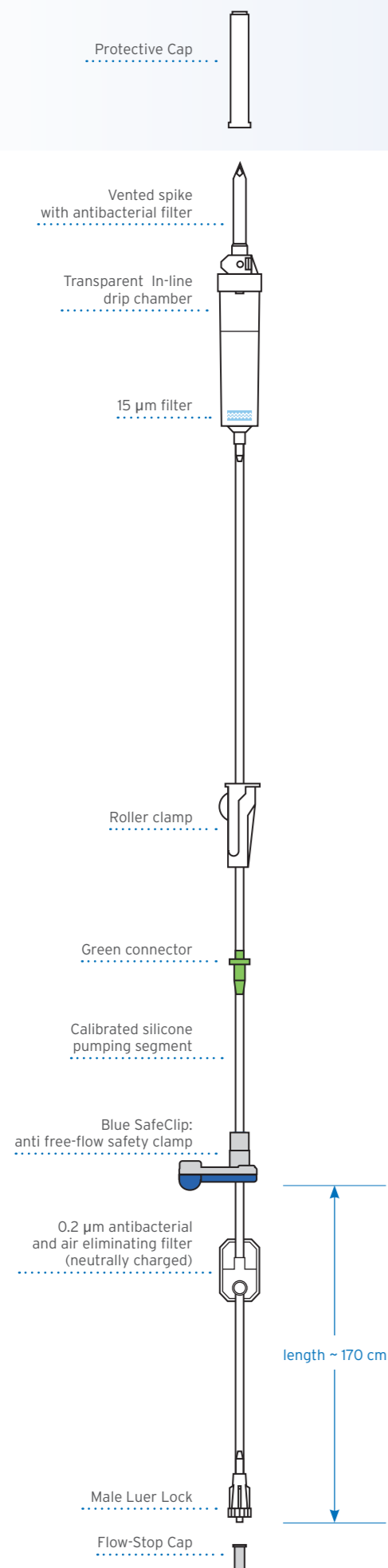
- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Automatic primary / secondary mode with Volumat MC Agilia / Volumat 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 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 as plasticizer is not used
- 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 non compatible with PVC

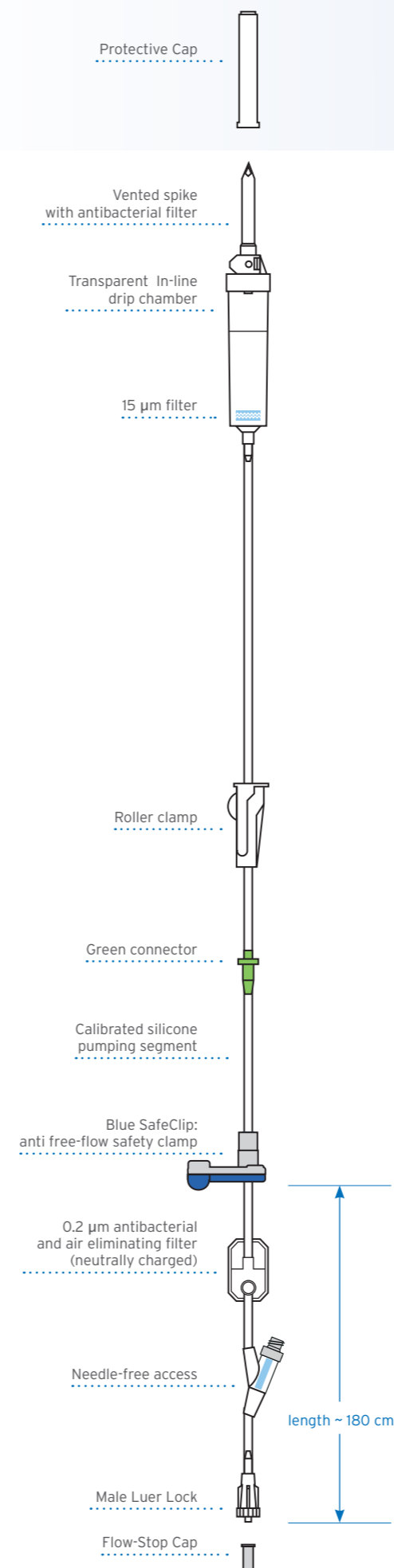
**Not to be used for / in**

- 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)
- 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 ON72

ref. M46444100S



**Approximate set length:**

270 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
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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 non compatible with PVC

**Not to be used for / in**

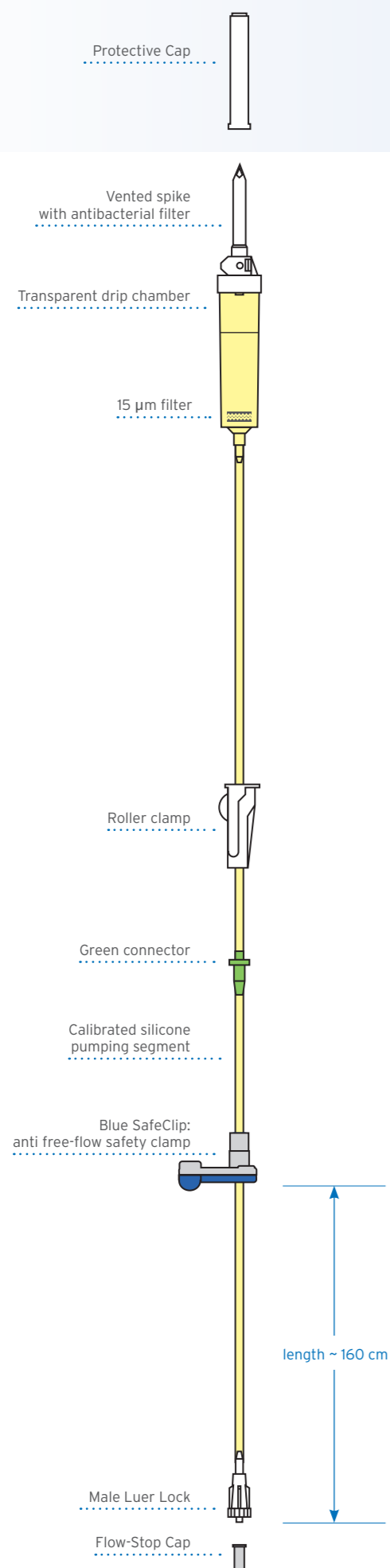
- Blood cells
- Total parenteral nutrition and other lipid containing solutions
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Primary / secondary mode with Volumat MC Agilia

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

- The line filters light in the UV range of 250 / 350 nm for light sensitive drugs
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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 non compatible with PVC

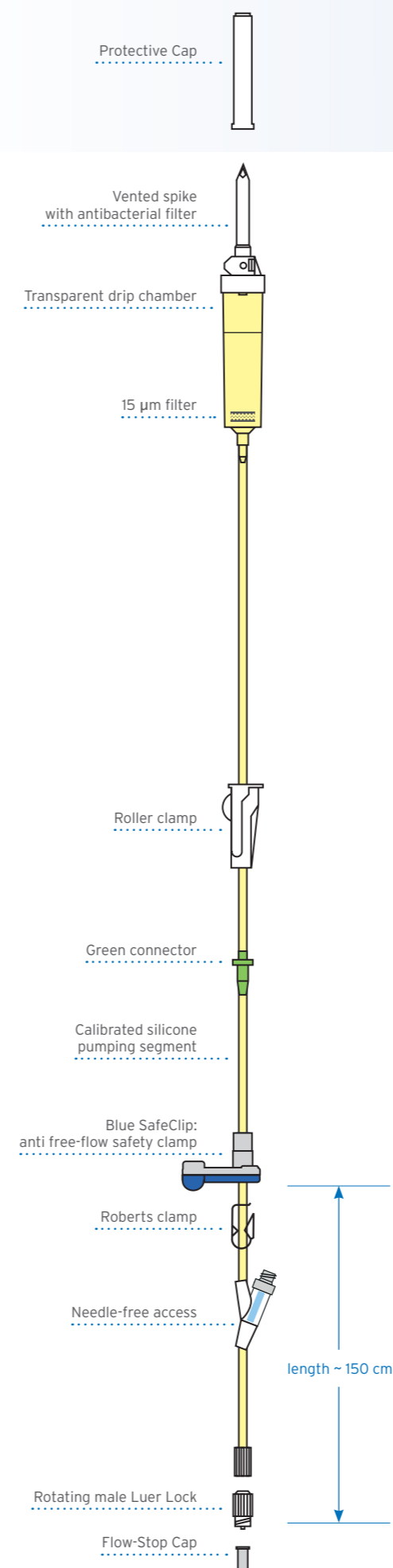
### Not to be used for / in

- Blood cells
- 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 ON91

ref. M46444901



### Approximate set length:

255 cm

### Approximate priming volume:

24 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

- The line filters light in the UV range of 250 / 350 nm for light sensitive drugs
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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 non compatible with PVC

### Not to be used for / in

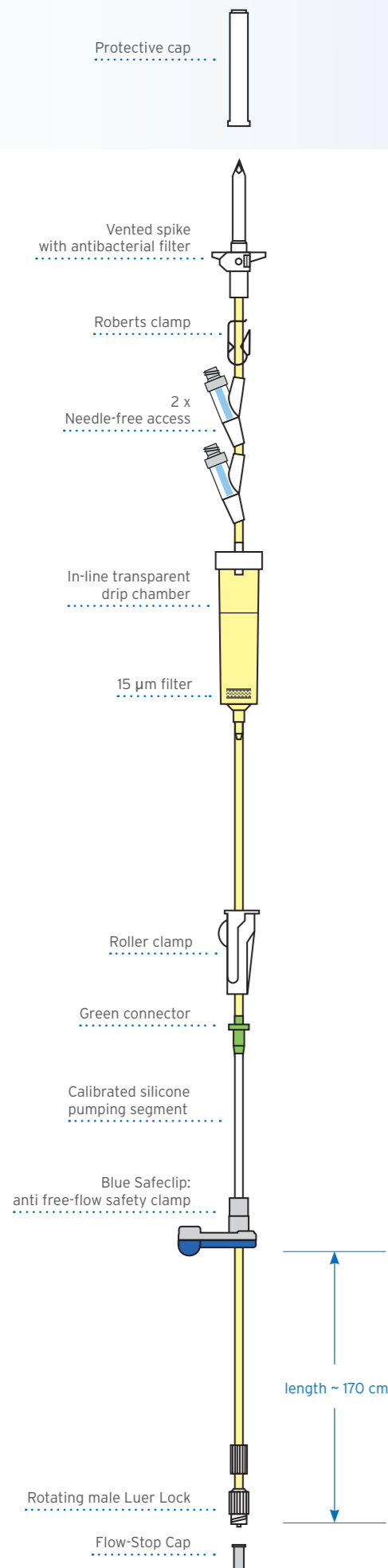
- Blood cells
- Primary / secondary mode with Volumat MC Agilia / Volumat MC Agilia VP MC

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 ON22 OP

ref. M46446000S



**Approximate set length:**

300 cm

**Approximate priming volume:**

26 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**

- The line filters light in the UV range of 250 / 350 nm for light sensitive drugs
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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
  - available in bags or bottles
  - having no particular filtration requirements
  - having no particular incompatibility
- Infusion of drugs non 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
- Secondary Infusion

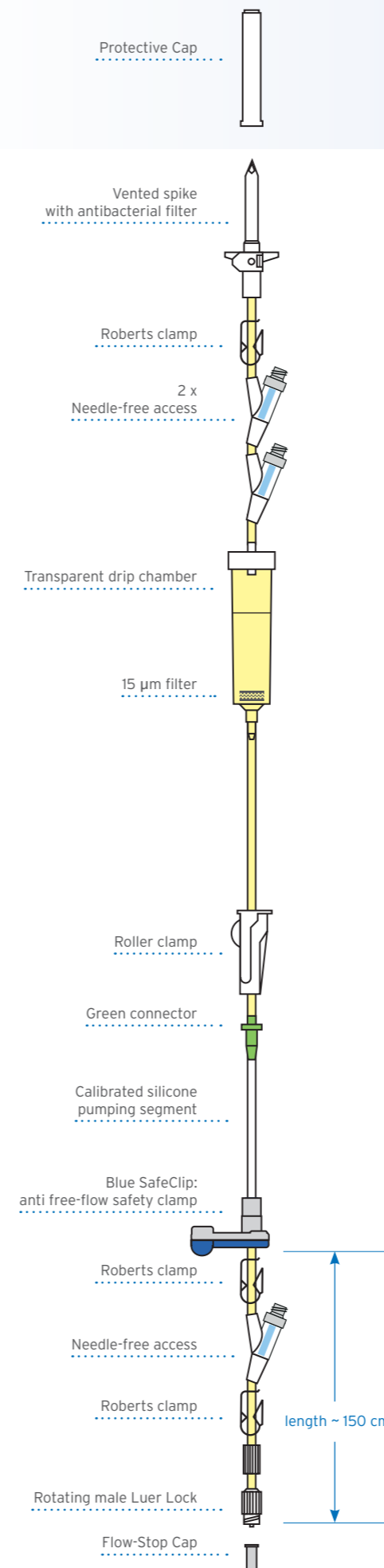
**Not to be used for / in**

- Blood cells
- Needle-free access. Should not be used to connect a gravity line (unless it is protected by a one-way 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 ON22 OP NF

ref. M46444230S



**Approximate set length:**

265 cm

**Approximate priming volume:**

24 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**

- The line filters light in the UV range of 250 / 350 nm for light sensitive drugs
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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 non 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**

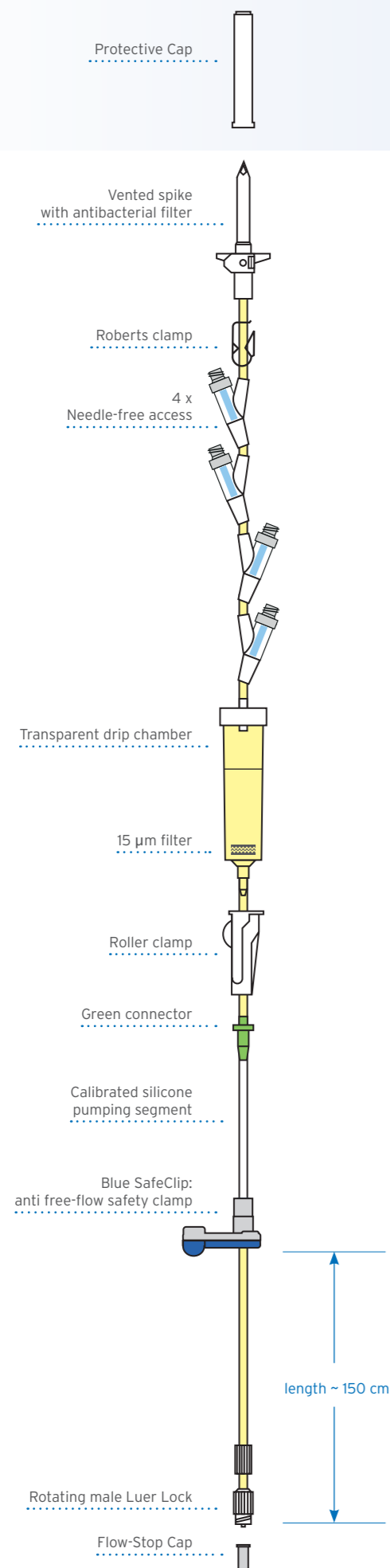
- Blood cells
- Needle-free access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- Automatic primary / secondary mode with Volumat MC Agilia / Volumat MC Agilia VP MC

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

ref. M46445801



### Approximate set length:

270 cm

### Approximate priming volume:

26 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

- The line filters light in the UV range of 250 / 350 nm for light sensitive drugs
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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 non 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

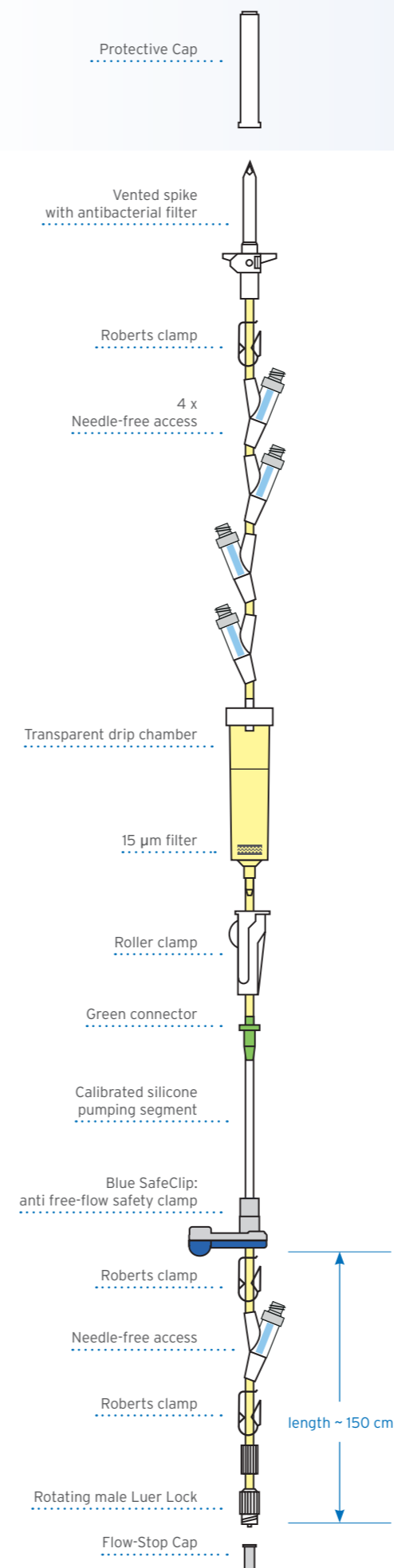
### Not to be used for / in

- 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. M46444080S



### Approximate set length:

275 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

- The line filters light in the UV range of 250 / 350 nm for light sensitive drugs
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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 non 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.



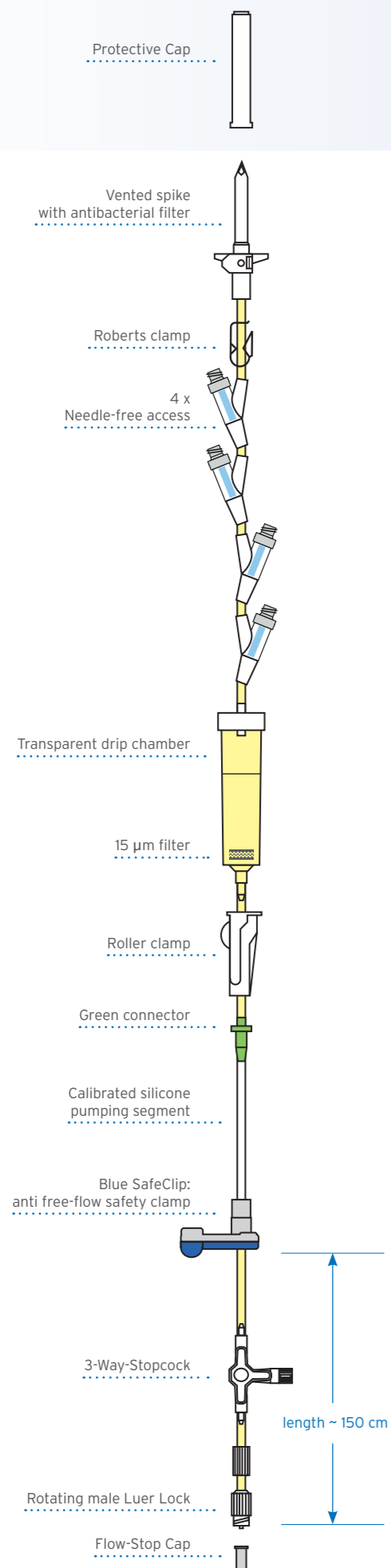


**VL ON42 OP SC**

ref. M46444071

**Notes**

to remember

**Approximate set length:**

270 cm

**Approximate priming volume:**

26 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**

- The line filters light in the UV range of 250 / 350 nm for light sensitive drugs
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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 non 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

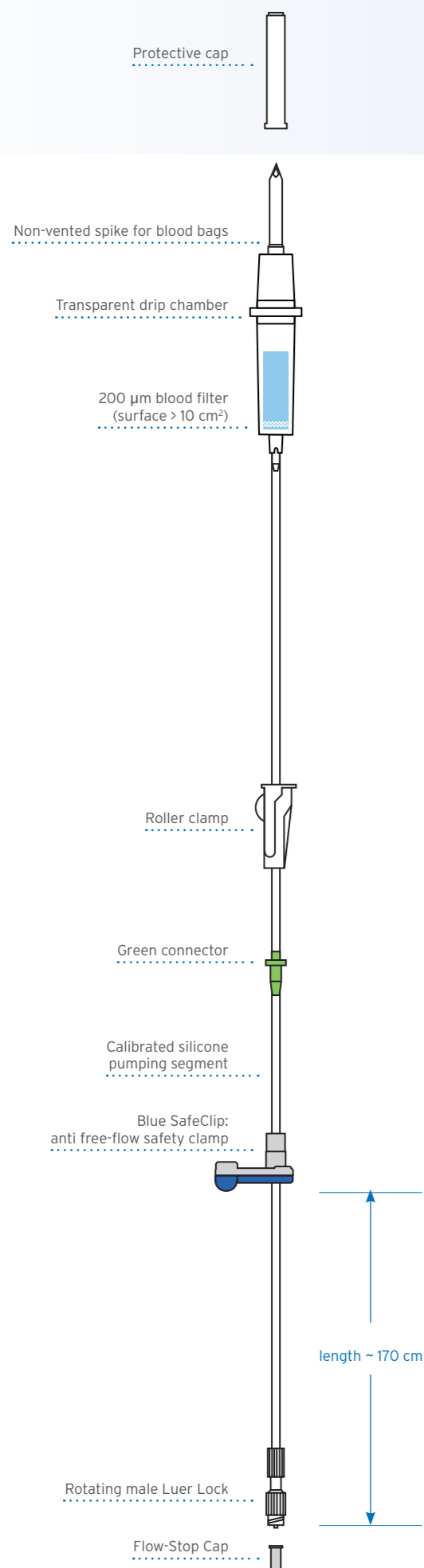
**Not to be used for / in**

- 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 as plasticizer is not used
- Latex-free

### Packaging

- Case quantity: 30 x 1

### Typical applications

- Transfusion of blood products available in bags

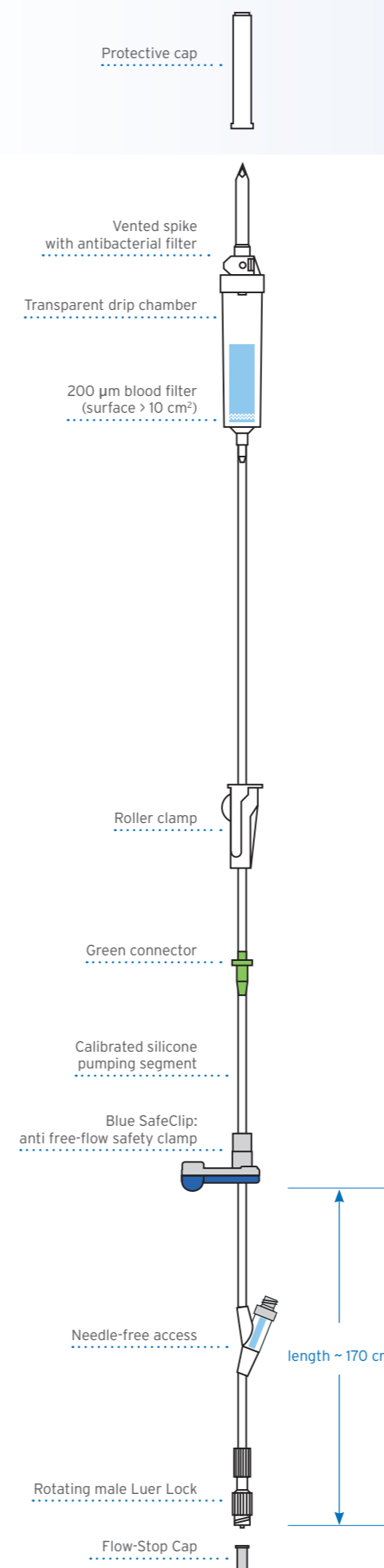
### Not to be used for / in

- Bottles
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- 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. M46442700S



### Approximate set length:

270 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 as plasticizer is not used
- Latex-free

### Packaging

- Case quantity: 30 x 1

### Typical applications

- Transfusion of blood products available in bags

### Not to be used for / in

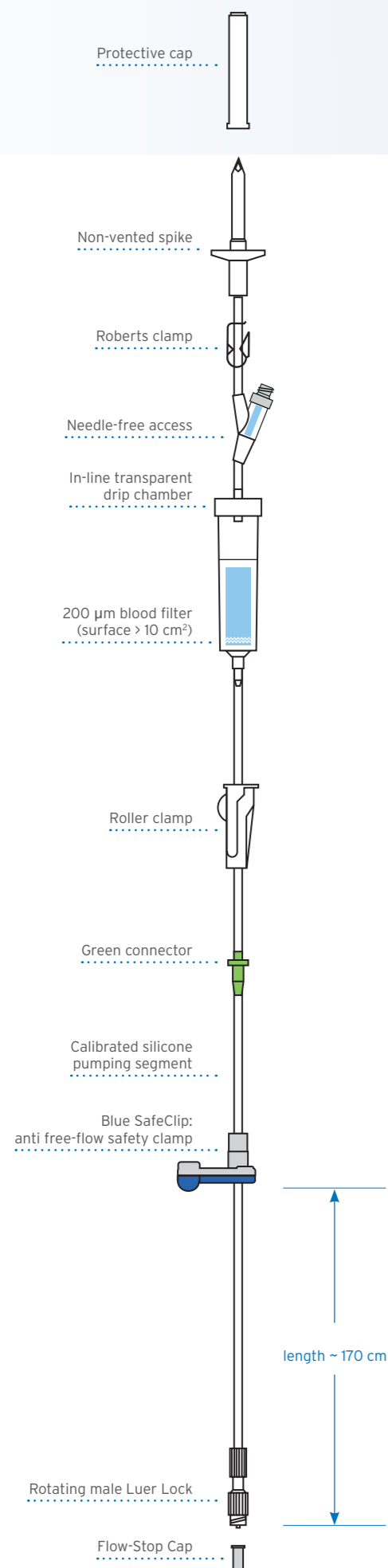
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needle-free access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- 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 TR21

ref. M46446200S



### Approximate set length:

290 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 as plasticizer is not used
- 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

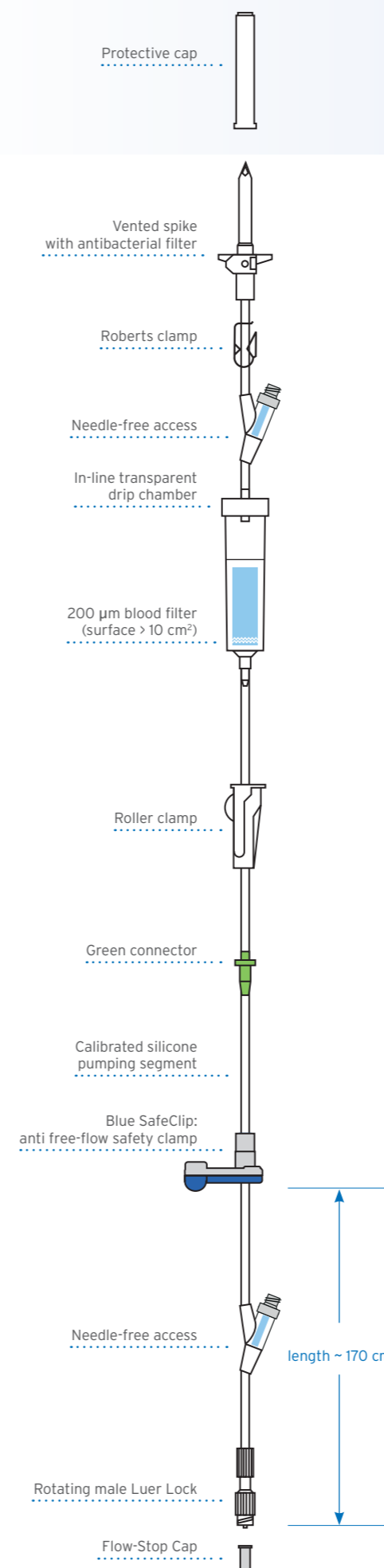
### Not to be used for / in

- Bottles
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- 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 TR22

ref. M46443000S



### Approximate set length:

285 cm

### Approximate priming volume:

26 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 as plasticizer is not used
- 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

### Not to be used for / in

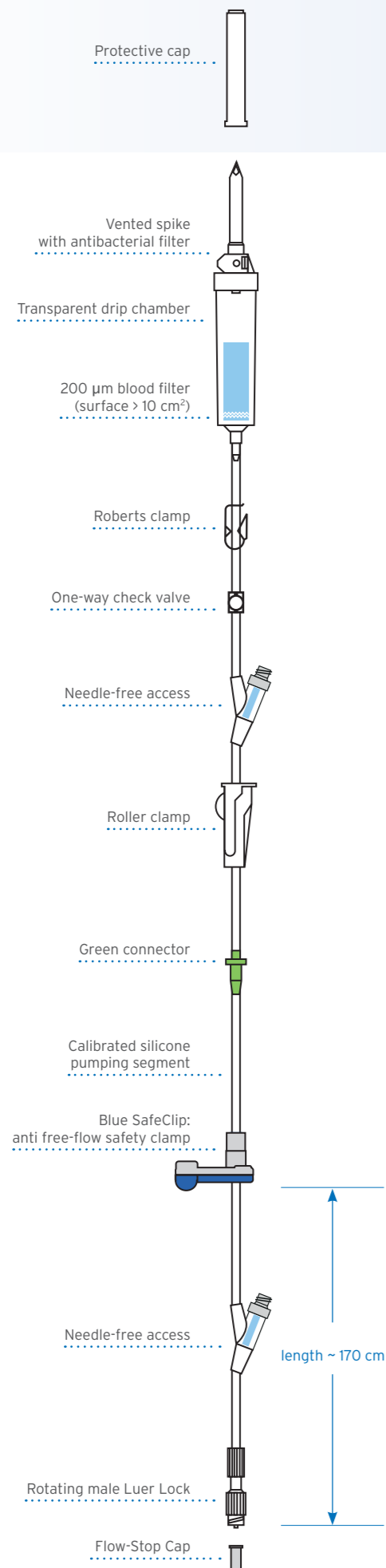
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needle-free access. Should not be used to connect a gravity line (unless it is 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 TR42

ref. M46442900S



### Approximate set length:

270 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 as plasticizer is not used
- 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

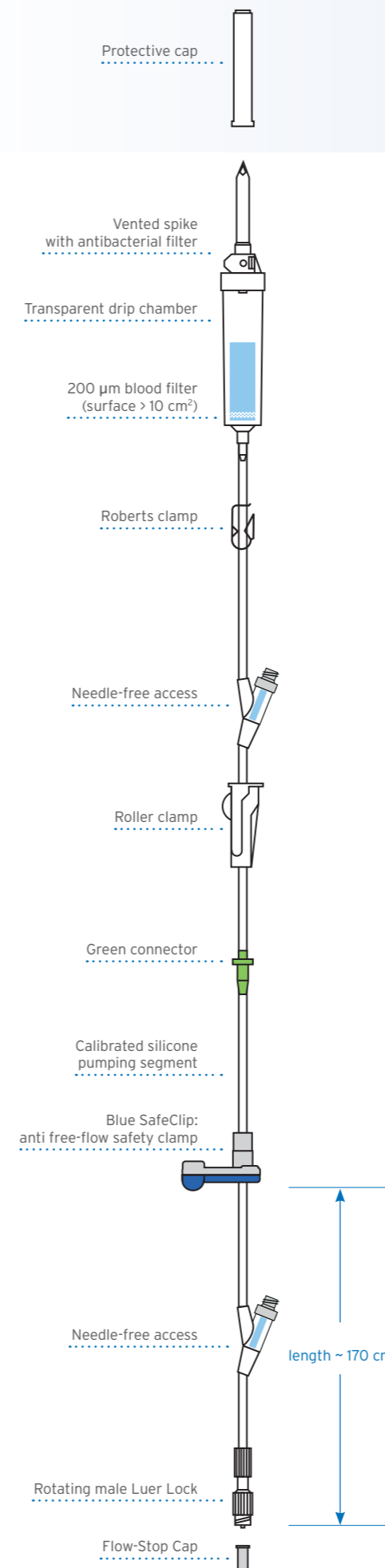
### Not to be used for / in

- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- 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.

## VL TR43

ref. M46444500S



### Approximate set length:

270 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 as plasticizer is not used
- 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

### Not to be used for / in

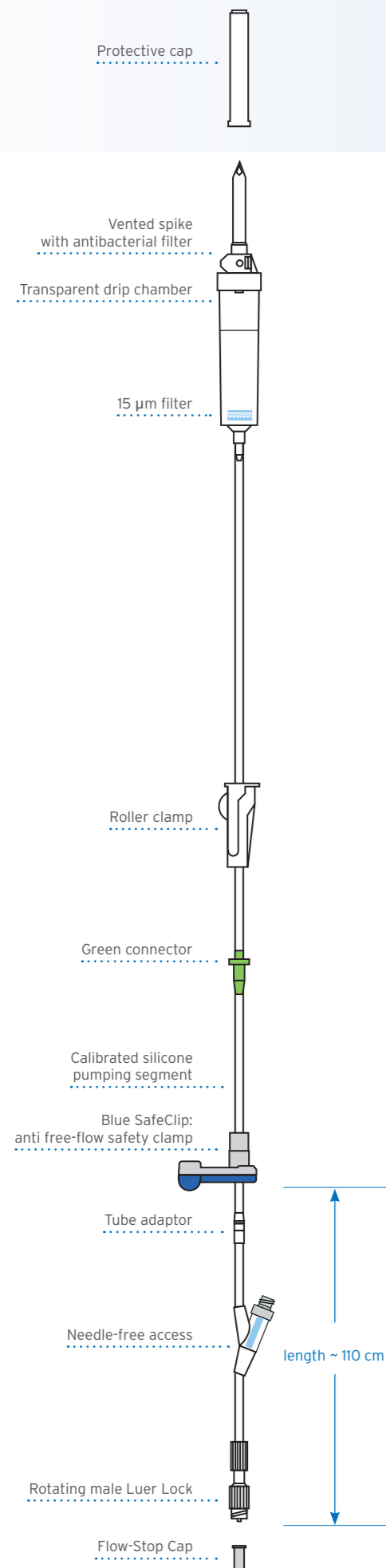
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needle-free access. Should not be used to connect a gravity line (unless it is 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 PA02

ref. M46442200S



### Approximate set length:

180 cm

### Approximate priming volume:

16 ml

### Main materials:

PVC (tubing: diameter 2.5 x 4.1 mm)

Silicone (tubing: diameter 3.41 x 5.11 mm)

### Advantages

- Limited priming volume 60 drops / ml
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP as plasticizer is not used
- 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

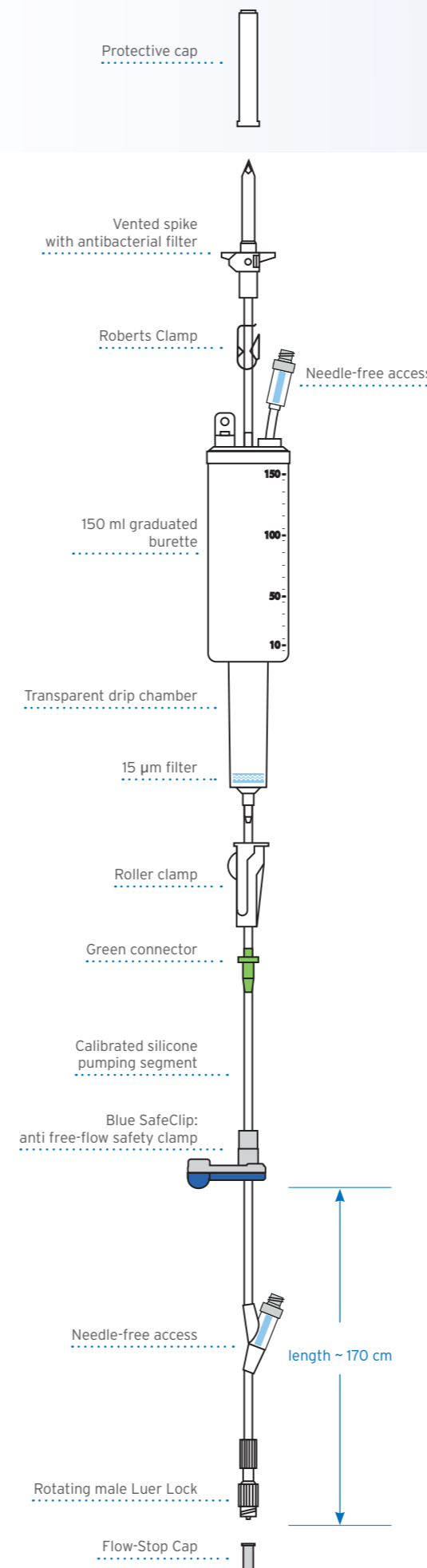
### Not to be used for / in

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- 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)
- 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 PA92

ref. M46445200S



### 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 as plasticizer is not used
- 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

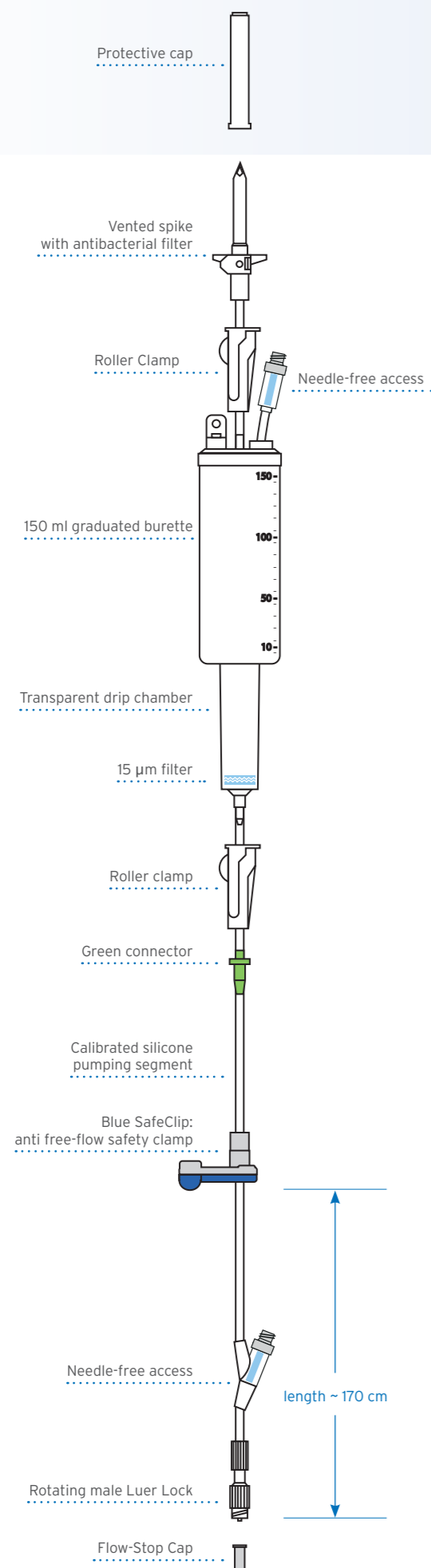
### Not to be used for / in

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- 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)
- 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 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 as plasticizer is not used
- 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

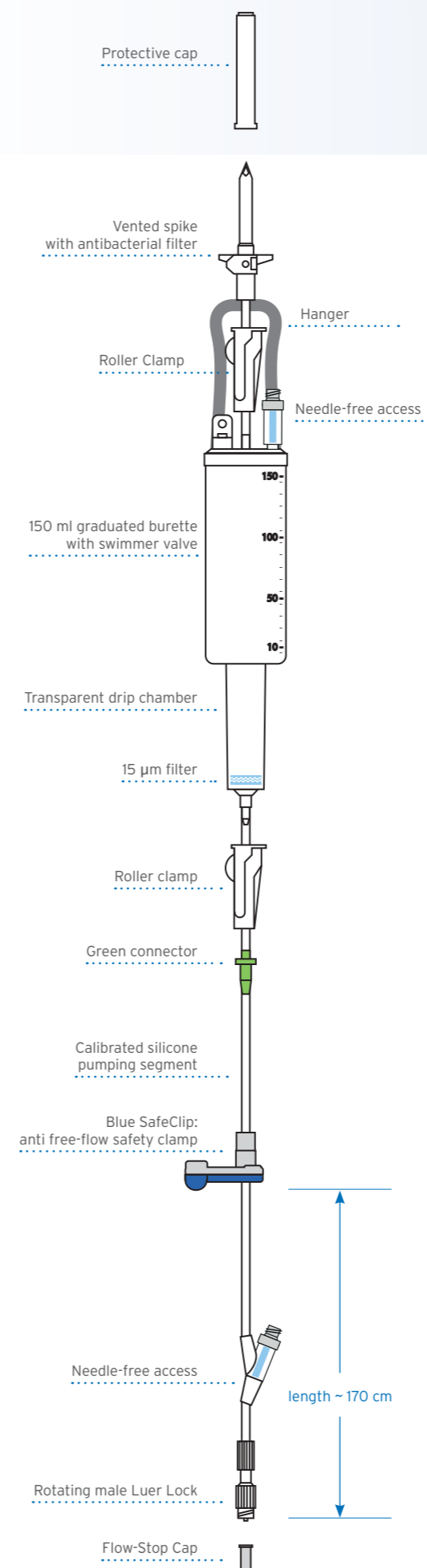
### Not to be used for / in

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- 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)
- Primary / secondary mode with Volumat MC Agilia / Agilia VP MC
- Not compatible with the optional drop sensor

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## 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 as plasticizer is not used
- 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

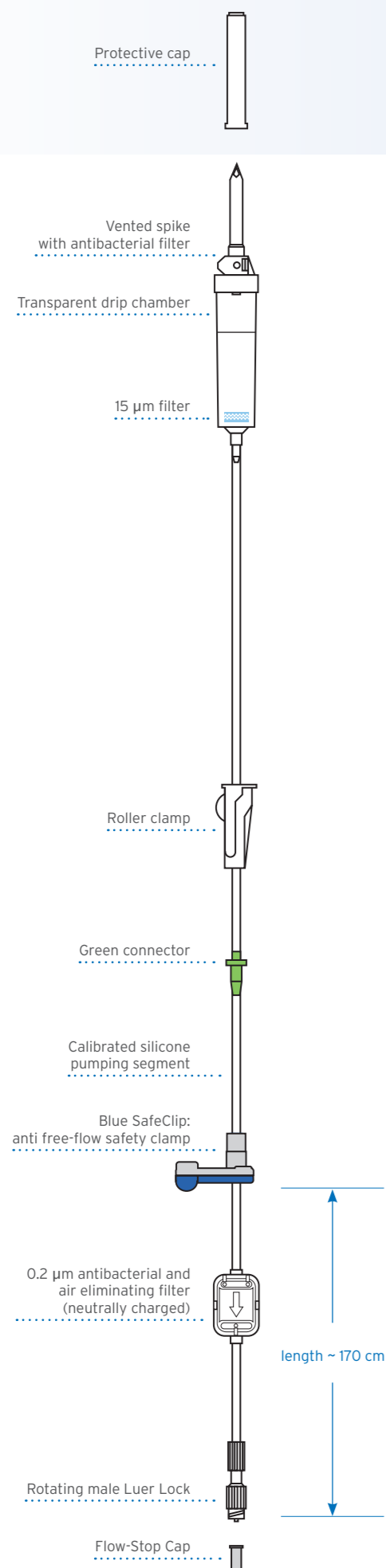
- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needle-free access. Should not be used to connect a gravity line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

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## VL PN00

ref. M46444300S



### Approximate set length:

285 cm

### Approximate priming volume:

26 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 as plasticizer is not used
- 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

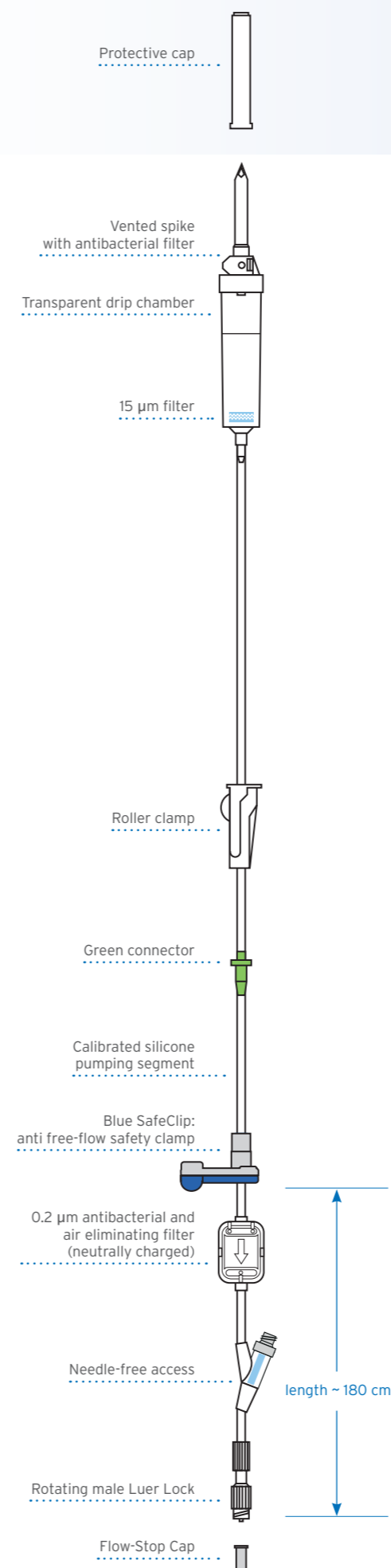
### Not to be used for / in

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- 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 PN02

ref. M46444400S



### Approximate set length:

290 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
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP as plasticizer is not used
- 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

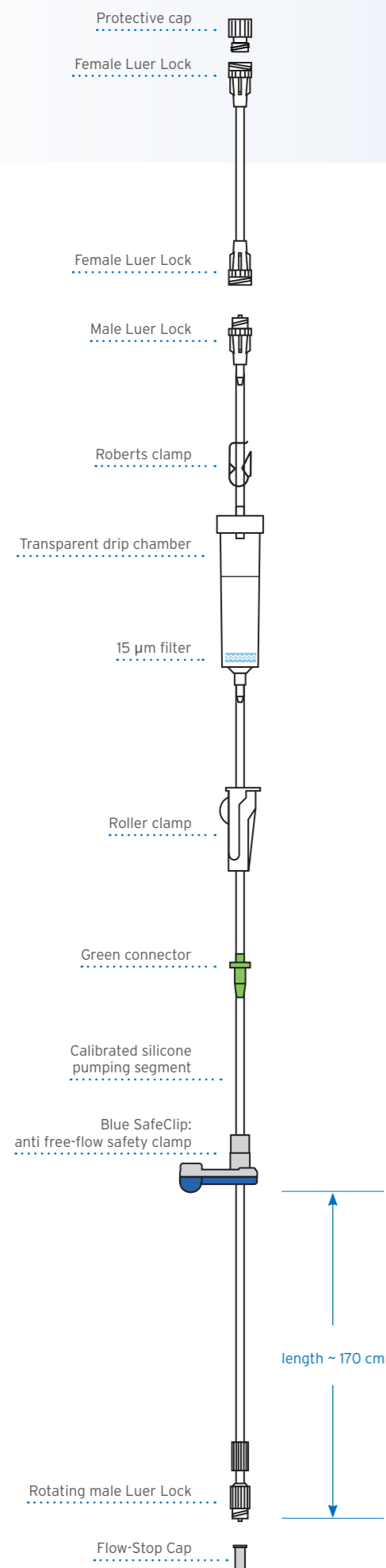
- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Primary / secondary mode with Volumat MC Agilia / Agilia VP MC

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 PN20

ref. M46443700S



### Approximate set length:

280 cm

### Approximate priming volume:

26 ml

### Main materials:

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

### Advantages

- Possible use with bags equipped with Luer Lock connector
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP as plasticizer is not used
- Latex-free

### Packaging

- Case quantity: 30 x 1

### Typical applications

- Infusion of drugs presented in bags equipped with a Luer Lock connector (male or female)
- Infusion of drugs / fluids
  - having no particular filtration requirements
  - having no particular incompatibility
- Can be used for parenteral nutrition

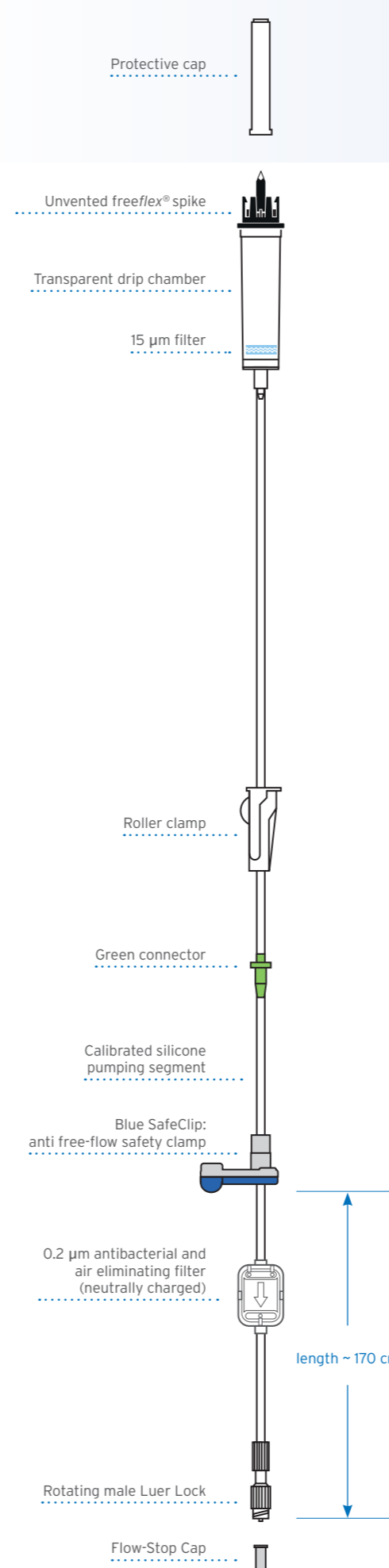
### Not to be used for / in

- Bottles
- Standard bags
- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- 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 PNO0 FX

ref. M46442300S



### Approximate set length:

280 cm

### Approximate priming volume:

26 ml

### Main materials:

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

### Advantages

- Tight and secure connection with freeflex® / freeflex®+, ensuring a permanent connection avoiding spillages
- Provides additional protection against bacterial contamination
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP as plasticizer is not used
- Latex-free

### Packaging

- Case quantity: 30 x 1

### Typical applications

- Only use with Fresenius Kabi freeflex® / freeflex®+ Bags
- Infusion of drugs requiring a 1.2 µm filter
- Can be used for parenteral nutrition
- Infusion of drugs / fluids having no particular incompatibility

### Not to be used for / in

- Bottles
- Standard bags
- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Primary / secondary mode with Volumat MC Agilia / Agilia VP MC

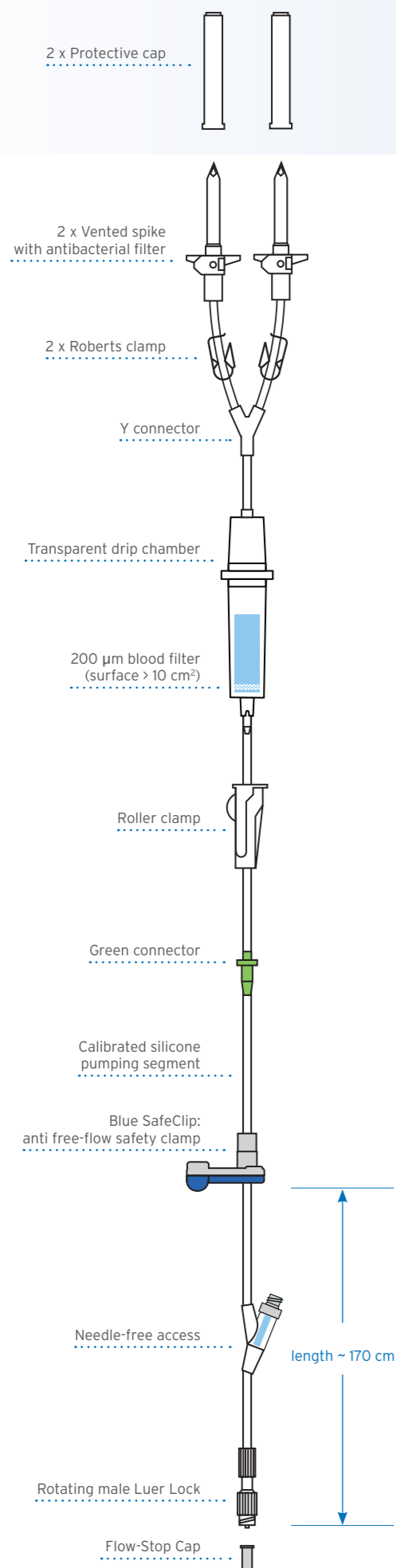
Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.





## 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
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- DEHP as plasticizer is not used
- Latex-free

### Packaging

- Case quantity: 30 x 1

### Typical applications

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

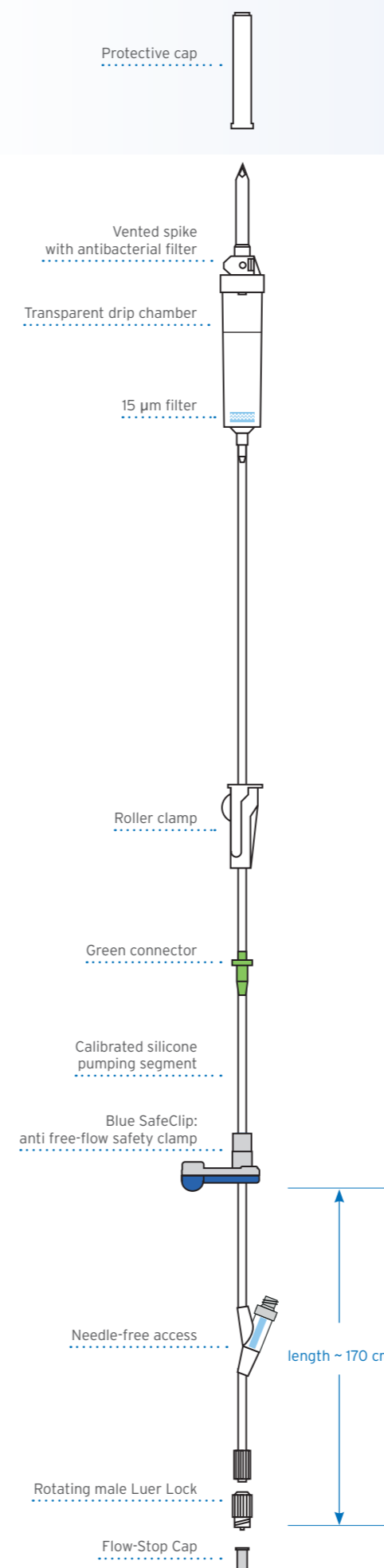
### Not to be used for / in

- Infusion of drugs known to be incompatible with PVC (e.g trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- 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 SP62

ref. M46443400S



### 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

- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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 non compatible with PVC

### Not to be used for / in

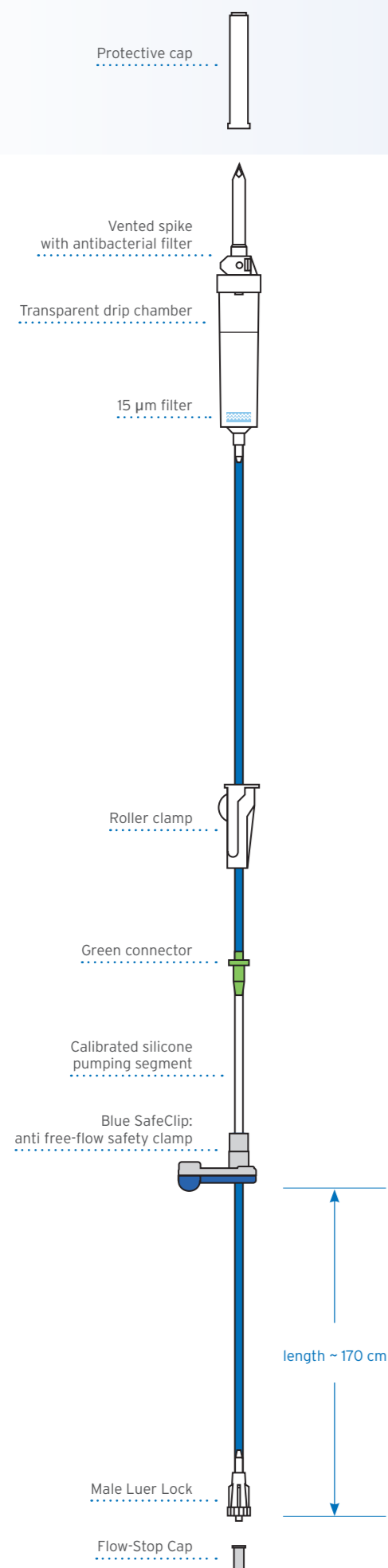
- Blood cells
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)
- Needle-free access. Should not be used to connect a gravity line (unless it is protected by a back check valve)
- Primary / secondary mode with Volumat MC Agilia / Agilia VP MC

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## VL SP90

ref. M46443500S



### Approximate set length:

270 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

- The line filters light in the UV range of 250 / 350 nm for light sensitive drugs
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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 non compatible with PVC

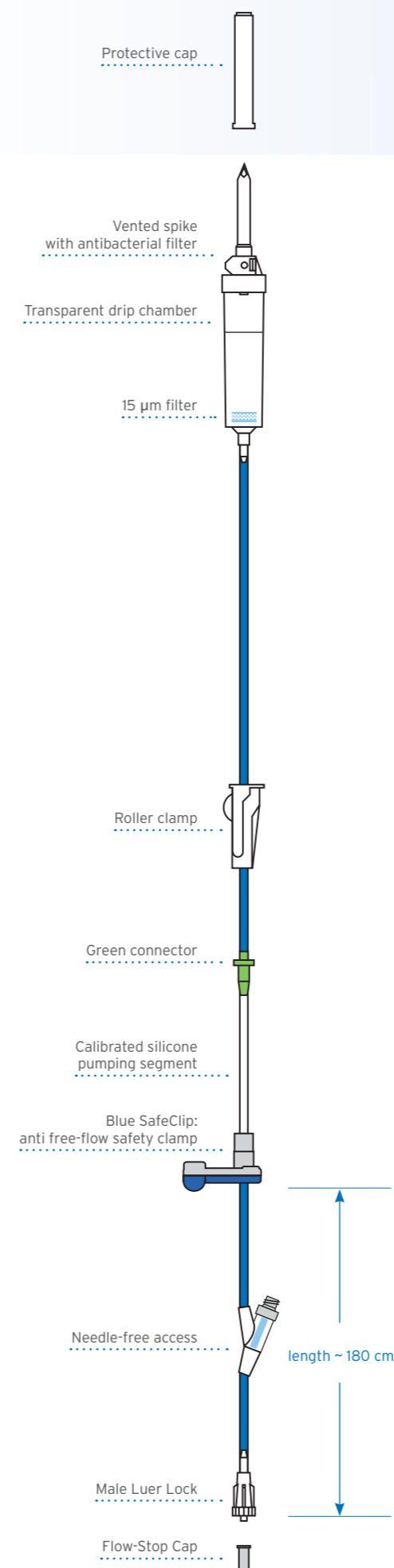
### Not to be used for / in

- Blood cells
- 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 SP92

ref. M46443600S



### Approximate set length:

290 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

- The line filters light in the UV range of 250 / 350 nm for light sensitive drugs
- Patient proximal access for emergency application
- Anti free-flow safety clamp
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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 non compatible with PVC

### Not to be used for / in

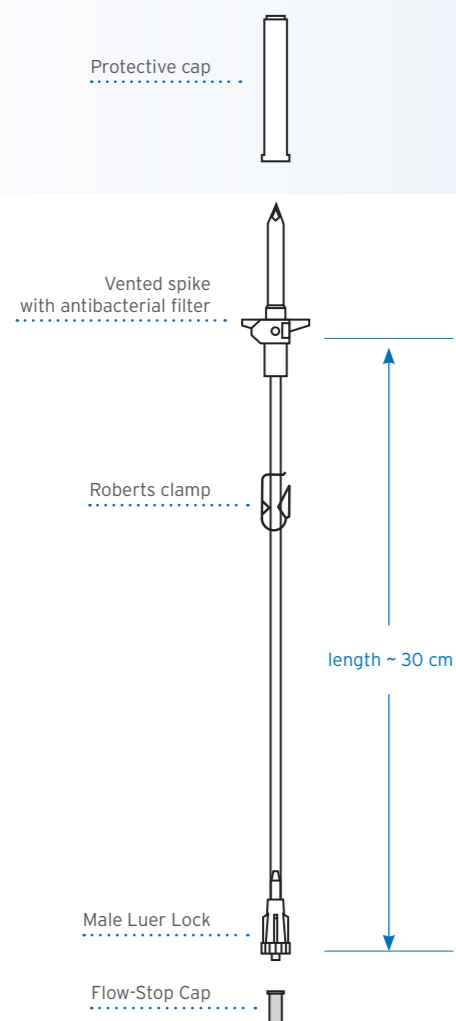
- Blood cells
- Primary / secondary mode with Volumat MC Agilia / Agilia VP MC

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 as plasticizer is not used
- 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 non 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

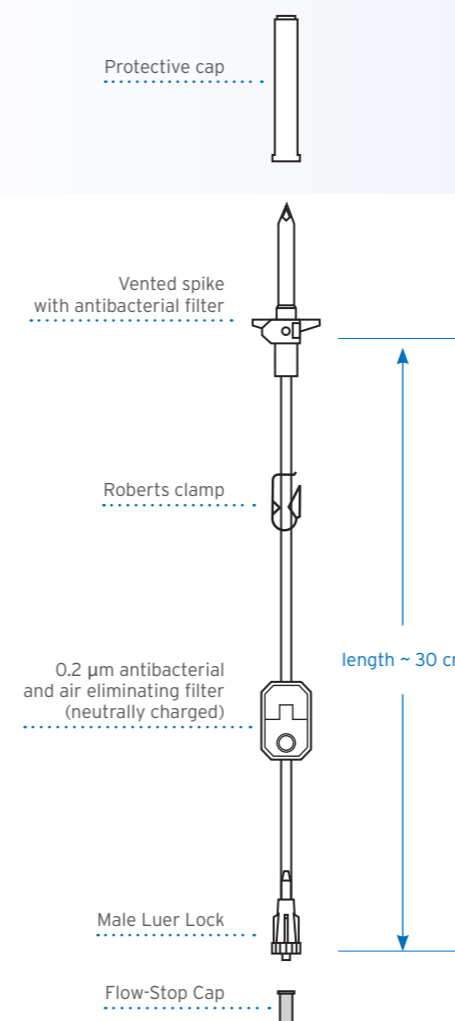
### Not to be used for / in

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

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 as plasticizer is not used
- 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 non 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

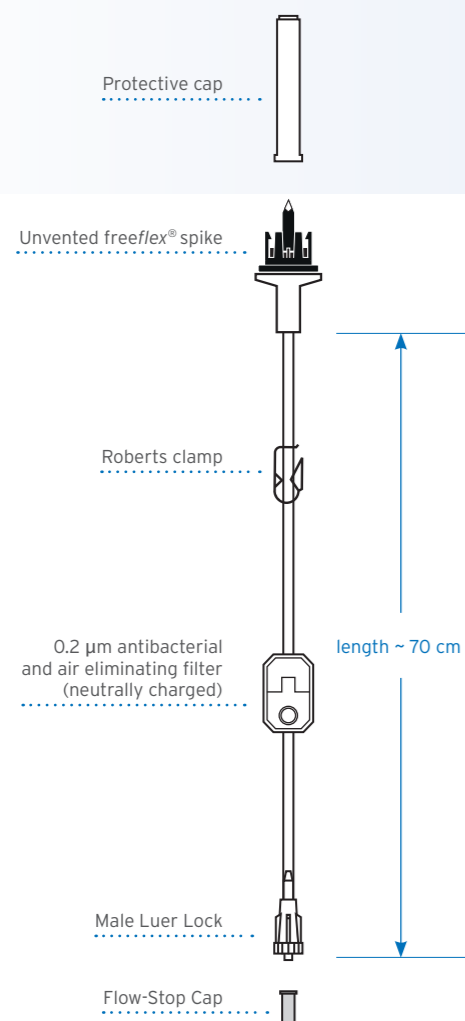
### Not to be used for / in

- 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® / freeflex® +, ensuring a permanent connection avoiding spillages
- Provides additional protection against bacterial contamination
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- Latex-free

### Packaging

- Case quantity: 40 x 1

### Typical applications

- Only use with Fresenius Kabi freeflex® / freeflex® + Bags
- Infusion of drugs requiring a 0.2 µm filter
- Infusion of drugs / fluids
  - having no particular incompatibility
- Infusion of drugs non 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

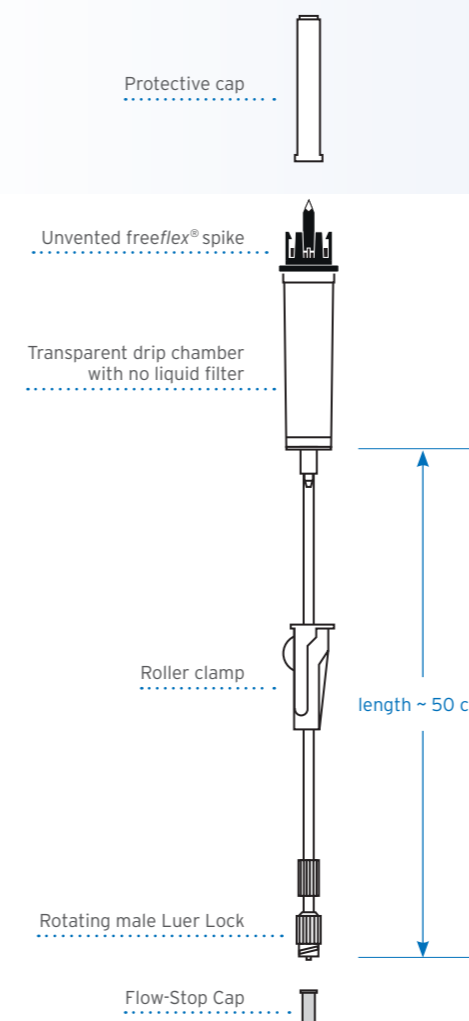
### Not to be used for / in

- 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® / freeflex® +, ensuring a permanent connection avoiding spillages
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- Latex-free

### Packaging

- Case quantity: 50 x 1

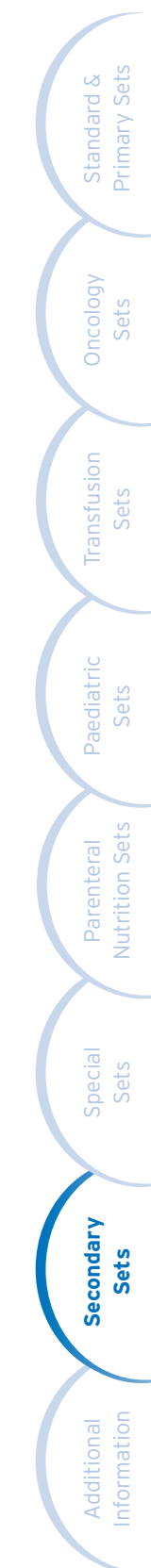
### Typical applications

- Only use with Fresenius Kabi freeflex® / freeflex® + Bags
- Infusion of drugs / fluids
  - having no particular filtration requirements
  - having no particular incompatibility
- Infusion of drugs non 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

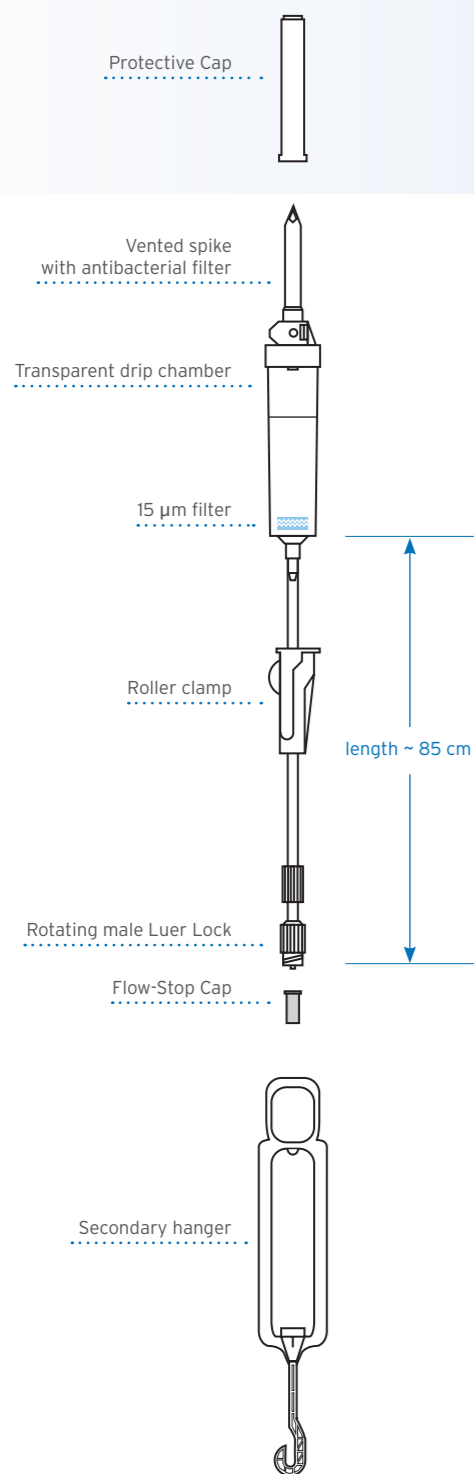
- Bottles
- Standard bags
- Blood cells
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)

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 as plasticizer is not used
- 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

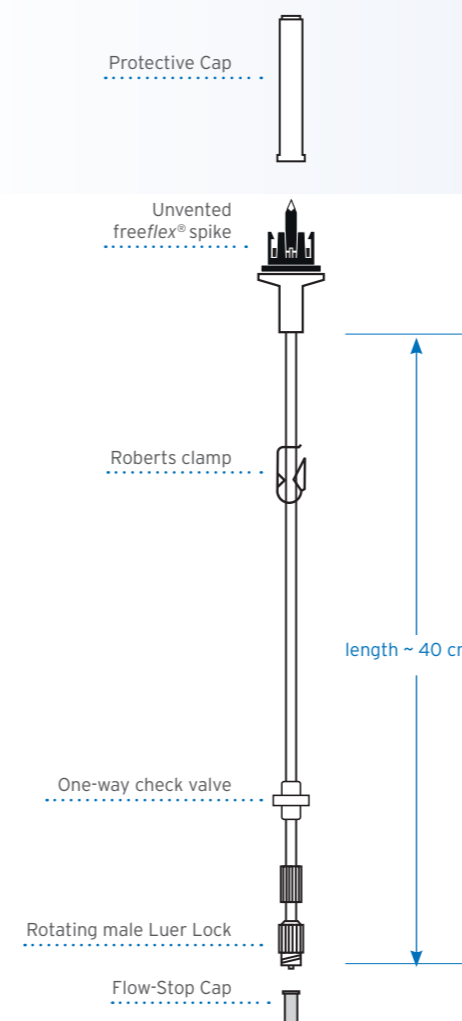
### Not to be used for / in

- Blood cells
- Infusion of drugs known to be incompatible with PVC (e.g. trinitrine, isosorbide dinitrate, sodium nitroprussiate...)
- 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 FX

ref. M77460062



### Approximate set length:

45 cm

### Approximate priming volume:

2.5 ml

### Main materials:

PUR (tubing: diameter 3.0 x 4.1 mm)

### Advantages

- Tight and secure connection with freeflex® / freeflex® +, ensuring a permanent connection avoiding spillages
- One-way check valve
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- Latex-free

### Packaging

- Case quantity: 60 x 1

### Typical applications

- Only use with Fresenius Kabi freeflex® / freeflex® + Bags
- Infusion of drugs / fluids
  - having no particular filtration requirements
  - having no particular incompatibility
- Infusion of drugs non 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)

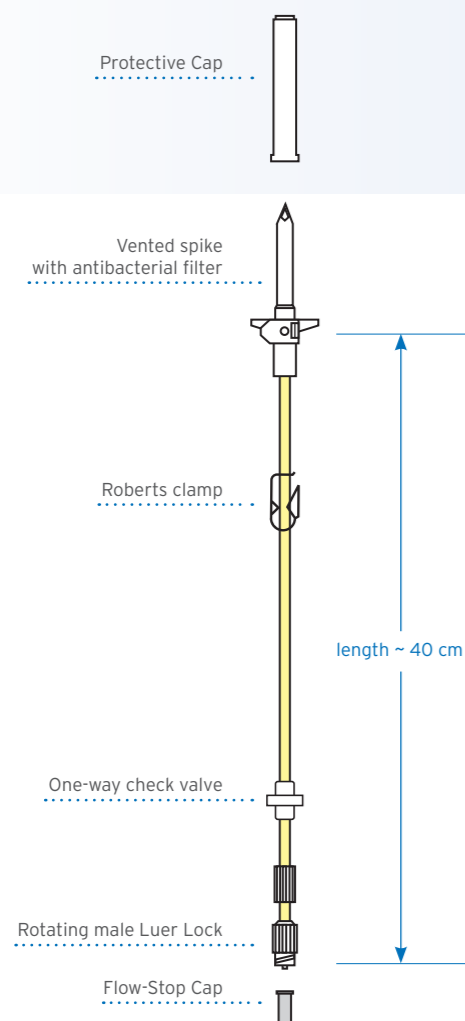
Due to our policy of continuous product improvement, as well as changes in standards, the features described in this document may change. Please consult us for the most current information.



## Secondary Sets

### SL 00 OP

ref. M77460065



#### Approximate set length:

45 cm

#### Approximate priming volume:

2.5 ml

#### Main materials:

PUR (tubing: diameter 3.0 x 4.1 mm)

#### Advantages

- The line filters light in the UV range of 250 / 350 nm for light sensitive drugs
- One-way check valve
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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 non 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

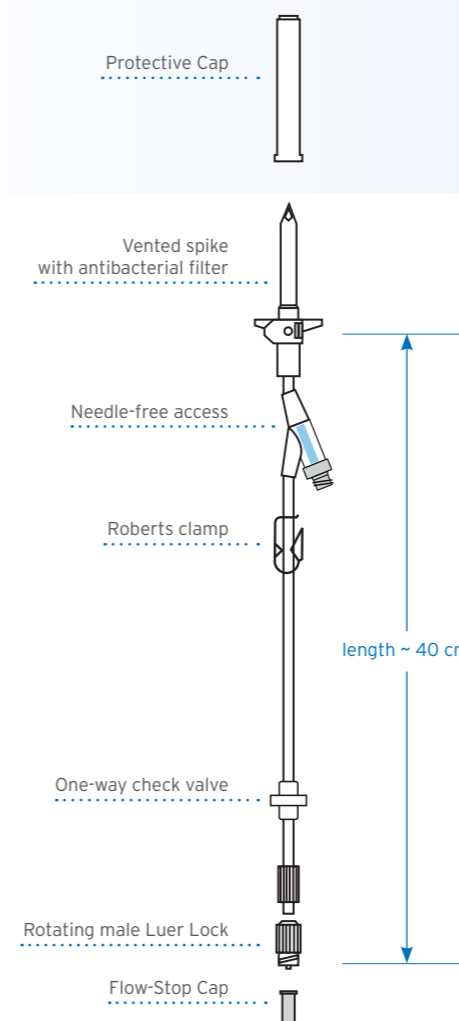
- Blood cells

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 IP

ref. M77460069



#### Approximate set length:

43 cm

#### Approximate priming volume:

2.6 ml

#### Main materials:

PUR (tubing: diameter 3.0 x 4.1 mm)

#### Advantages

- Inverted port
- One-way check valve
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- Latex-free

#### Packaging

- Case quantity: 60 x 1

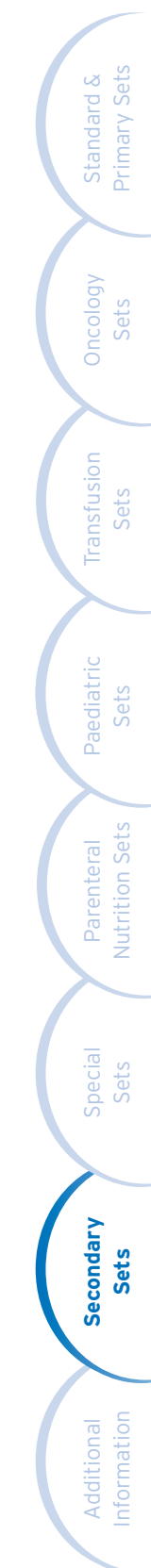
#### Typical applications

- Infusion of drugs / fluids
  - having no particular filtration requirements
  - having no particular incompatibility
- Infusion of drugs non 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

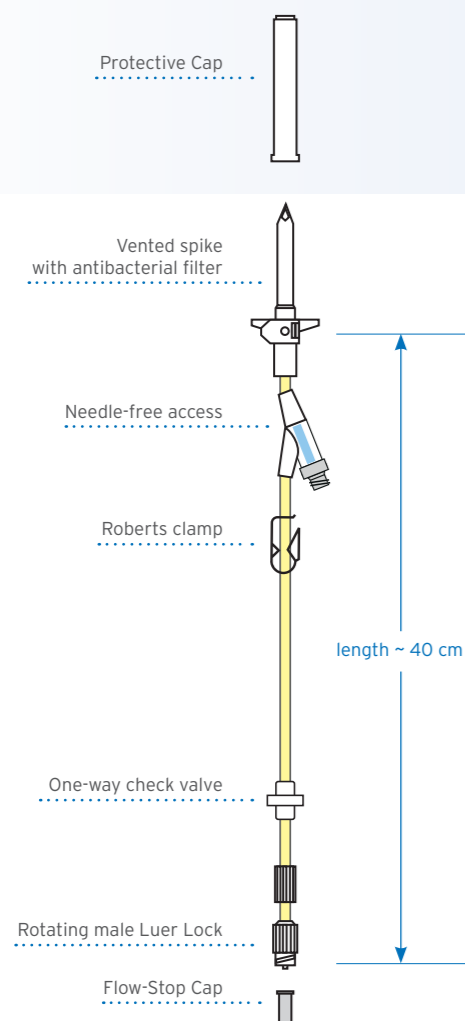
- Bottles
- Light sensitive drugs (unless other precautions are taken to protect the drug against direct light)

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 OP IP

ref. M77460068



### Approximate set length:

43 cm

### Approximate priming volume:

2.6 ml

### Main materials:

PUR (tubing: diameter 3.0 x 4.1 mm)

### Advantages

- The line filters light in the UV range of 250 / 350 nm for light sensitive drugs
- Inverted port
- One-way check valve
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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 non 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

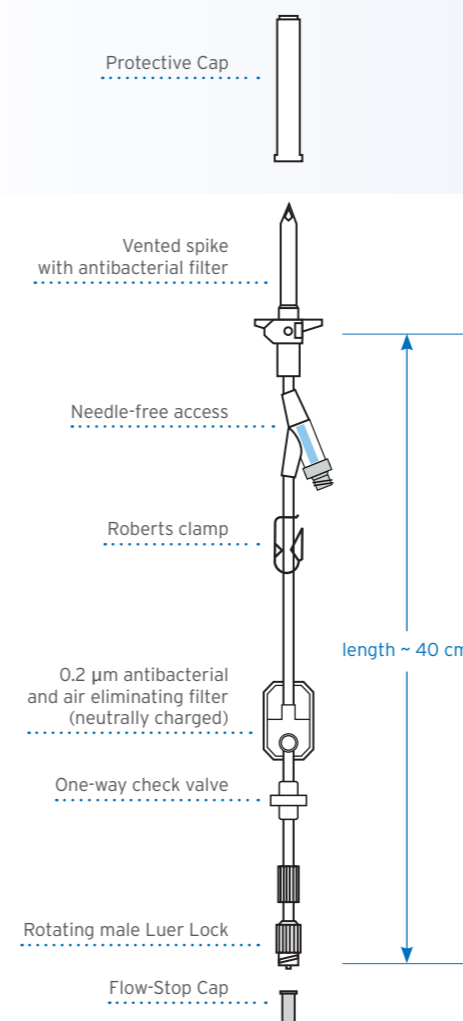
### Not to be used for / in

- Blood cells

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 IP

ref. M77460070



### Approximate set length:

43 cm

### Approximate priming volume:

5.3 ml

### Main materials:

PUR (tubing: diameter 3.0 x 4.1 mm)

### Advantages

- Provides additional protection against bacterial contamination
- Inverted port
- One-way check valve
- Flow-Stop Cap
- PVC-free
- DEHP as plasticizer is not used
- 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 non 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.





# Additional Information

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# Sets

by reference

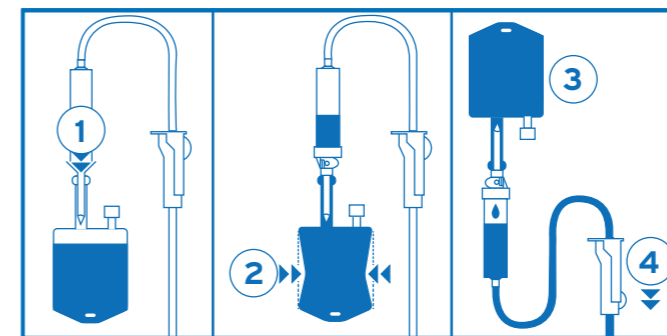
REFERENCE	DESIGNATION	PAGE
<b>Standard and Primary Sets</b>		
VL ST00	M46441000S	16
VL ST10	M46441300S	17
VL ST01	M46441600S	18
VL ST02	M46441900S	19
VL ST02 ND	M46441980	20
VL ST22	M46442500S	21
VL ST42	M46442600S	22
VL ST44	M46443200	23
<b>Oncology Sets</b>		
VL ON10	M46445500S	24
VL ON11	M4643900	25
VL ON12	M4644800	26
VL ON15	M46446600	27
VL ON20	M46445700S	28
VL ON22	M46444200	29
VL ON22 FX	M46444251	30
VL ON30	M46445900S	31
VL ON40	M46445100S	32
VL ON401	M46444001	33
VL ON42	M46444000S	34
VL ON42 FX	M46444051	35
VL ON42 SC	M46444061	36
VL ON45	M46446700	37
VL ON70	M46444600S	38
VL ON72	M46444100S	39
VL ON90	M46444900S	40
VL ON91	M46444901	41
VL ON22 OP	M46446000S	42
VL ON22 OP NF	M46444230S	43
VL ON42 OP	M46445801	44
VL ON42 OP NF	M46444080S	45
VL ON42 OP SC	M46444071	46
<b>Transfusion Sets - 200 µm Filter</b>		
<b>200 µm Filter</b>		
VL TRO0	M46442800S	48
VL TR12	M46442700S	49
VL TR21	M46446200S	50
VL TR22	M46443000S	51
VL TR42	M46442900S	52
VL TR43	M46444500S	53

REFERENCE	DESIGNATION	PAGE
<b>Microbore</b>		
VL PA02	M46442200S	54
<b>Burette Lines</b>		
VL PA92	M46445200S	55
VL PA93	M46443800S	56
VL PA94	M46445300S	57
<b>Parenteral Nutrition Sets</b>		
<b>1.2 µm Filter</b>		
VL PN00	M46444300S	58
VL PN02	M46444400S	59
<b>Special Application</b>		
VL PN20	M46443700S	60
<b>Freeflex® Spike Line</b>		
VL PN00 FX	M46442300S	61
<b>Special Sets</b>		
<b>200 µm Filter</b>		
VL SP22	M46443100S	62
<b>Primary Line</b>		
VL SP62	M46443400S	63
<b>Light Protected Tubing</b>		
VL SP90	M46443500S	64
VL SP92	M46443600S	65
<b>Secondary Sets</b>		
SL	M77460020	66
SL FILTER	M77460025	67
SL FX FILTER	M77460026	68
SL 20 FX ND	M77460033	69
SL 00 DC	M77460037	70
SL 00 FX	M77460062	71
SL 00 OP	M77460065	72
SL IP	M77460069	73
SL OP IP	M77460068	74
SL Filter IP	M77460070	75

# Priming of the set

used with a bag

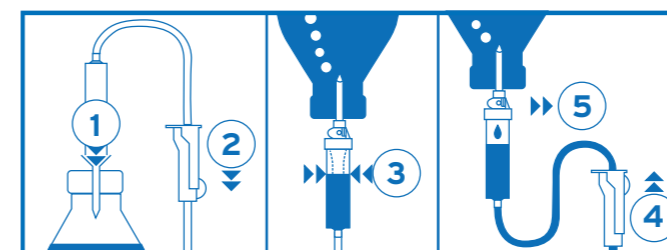
- 1 Introduce the spike right down into the bag (roller clamp open - air inlet closed).
- 2 Press the bag in order to remove the air, and fill the drip chamber up to half of its capacity.
- 3 Hang the bag upside down, and let the liquid flow into the set.
- 4 Once the set is completely primed, close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



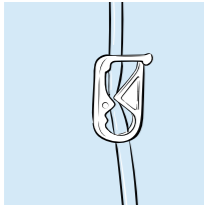
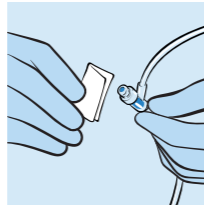

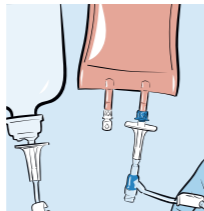
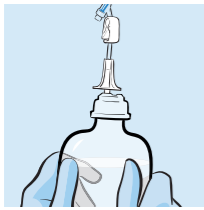
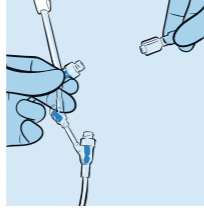
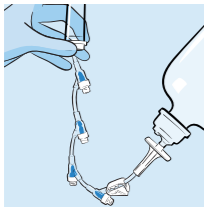

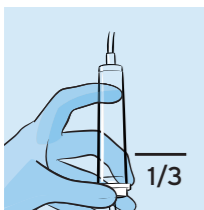

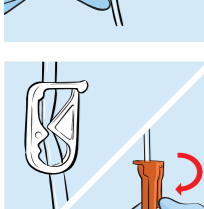
# Priming of the set

used with a bottle

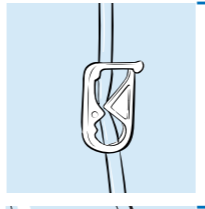
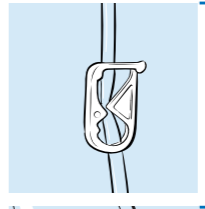
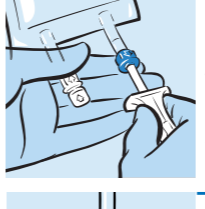
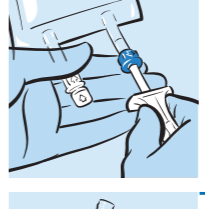
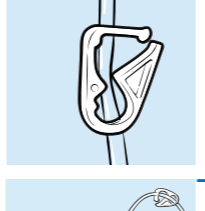
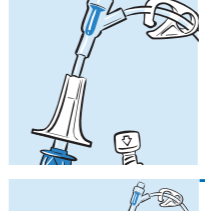
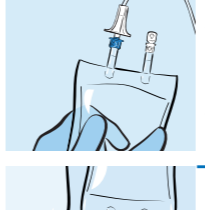
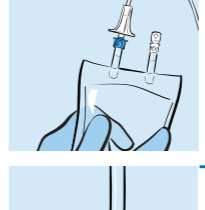
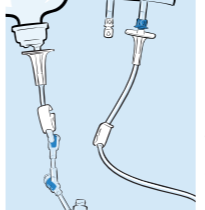
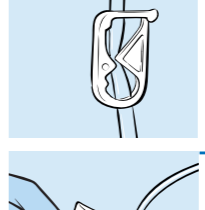
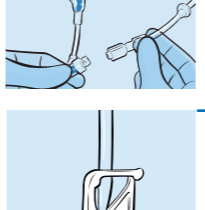
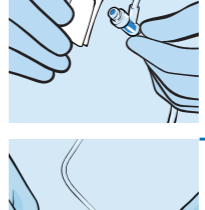
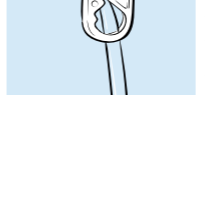
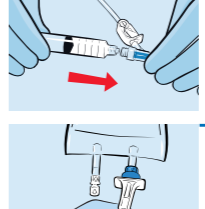
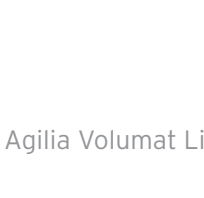
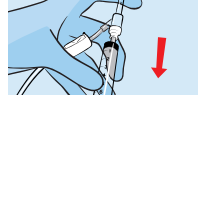
- 1 Introduce the spike right down into the bottle (roller clamp open - air inlet closed).
- 2 Close the roller clamp.
- 3 Hang the bottle upside down, then press the drip chamber in order to fill it to ~ half of its capacity.
- 4 Open the roller clamp.
- 5 Open the air inlet, and let the liquid flow 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.		Disinfect needle-free access port of the Administration Set (Main Line).
	Spike container.		Attach connector of Secondary Line to needle-free access port of the Administration Set.
	Turn infusion bag and port upside down (180°), open upper clamp again.		Prepare for start of infusion according to local protocol and manufacturers guideline for respective pump in use.
	Hold the drip chamber of the Administration Set above the port of the infusion bag.		Attach connector of Administration Set to patient access site. Consider local protocol for the procedure.
	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.		Before starting the process open the roller clamp of the Administration Set.
	Close upper clamp and roller clamp of Administration Set.		

## Handling recommendation of Standard and Inverted Port

A: Standard		B: Inverted port	
	Close clamp of Secondary Line.		Close clamp of Secondary Line.
	Remove cap from the spike of the Secondary Line and spike infusion bag.		Remove cap from the spike of the Secondary Line and spike infusion bag.
	Open clamp of Secondary Line.		Turn port upside down and open the clamp of the Secondary Line.
	Turn infusion bag upside down and press it until the Secondary Line is completely deaired and filled with neutral solution.		Withdraw calculated volume of cytostatic drug.
	Attach connector of Secondary Line to needle-free access port of the Administration Set.		Disinfect needle-free access port.
	Close clamp of Secondary Line. <b>Remark:</b> Open clamp of the container which will be used, close the other one.		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.		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.*



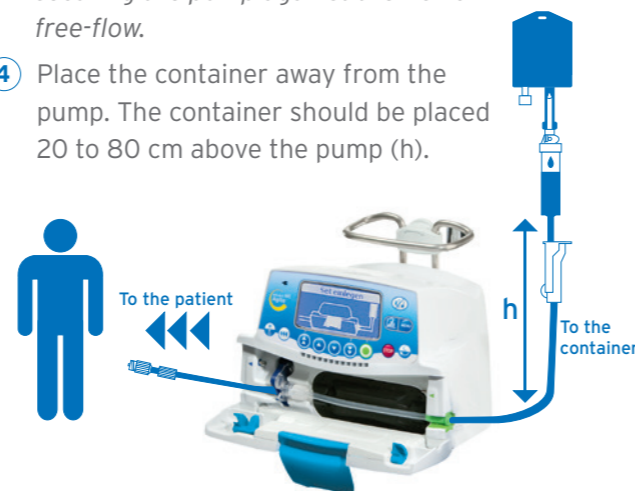
1. Align the tubing set horizontally along the tube guides so that the green connector is positioned to the right (green) and the blue clamp is positioned in front of the clamp guide (blue).

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 automatically clamps the line, activates real pumping and checks pressure increase.

*The OCS-test checks the right set positioning and pump occlusivity, thus securing the pump against the 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).



## Compatibility with Agilia Pumps

### Volumat administration sets can be used with the Volumat Agilia Pumps:

#### BRAND NAMES OF THE MODELS COMPATIBLE WITH IEC 60601 ED 2, INTRODUCED FROM 2007

- Volumat Agilia, Volumat MC Agilia

#### BRAND NAMES OF THE MODELS COMPATIBLE WITH IEC 60601 ED 2 AND ED3, INTRODUCED FROM 2016

- Agilia VP, Agilia VP MC, Agilia VP MC Wifi

#### BRAND NAMES OF THE MODELS COMPATIBLE WITH IEC 60601 ED 2 AND ED 3 INTRODUCED FROM 2013

- Volumat MC Agilia US

## 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.




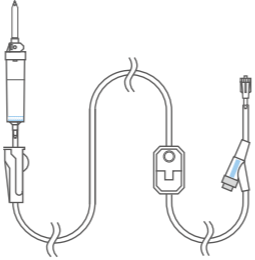


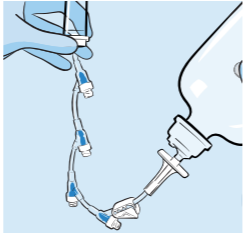

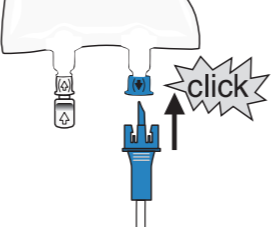
released

clamped

Agilia Volumat Lines

## Specific Features

Function, information and handling

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

## Notes

to remember

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